

Data Validation Summary Report (DVSR ID: TetraTech-M12-2018rev1) In-Situ Chromium Treatability Study Nevada Environmental Response Trust Site Henderson, Nevada

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LIST OF ACRONYMS/ABBREVIATIONS

| Acronyms/Abbreviations | Definition |
|------------------------|---|
| ADR | automated data review |
| CCB | continuing calibration blank |
| CCV | continuing calibration verification |
| COD | chemical oxygen demand |
| DQO | data quality objectives |
| DUP | duplicate |
| DVSR | data validation summary report |
| EB | equipment blank |
| FB | field blank |
| FD | field duplicate |
| IC | ion chromatography |
| ICB | initial calibration blank |
| ICV | initial calibration verification |
| LCS/LCSD | laboratory control sample / laboratory control sample duplicate |
| MDL | method detection limit |
| mg/L | milligram per liter |
| MS/MSD | matrix spike / matrix spike duplicate |
| NDEP | Nevada Division of Environmental Protection |
| NERT | Nevada Environmental Response Trust |
| NFG | National Functional Guidelines |
| %D | percent difference |
| %R | percent recovery |
| %RSD | percent relative standard deviation |
| PARCCS | precision, accuracy, representativeness, comparability, completeness, sensitivity |
| PQL | practical quantitation limit |
| QA | quality assurance |
| QAPP | quality assurance project plan |
| QC | quality control |
| RL | reporting limit |
| RPD | relative percent difference |
| SDG | sample delivery group |
| SQL | sample quantitation limit |
| TB | trip blank |

| Acronyms/Abbreviations | Definition |
|------------------------|---|
| Tetra Tech | Tetra Tech, Inc. |
| TDS | total dissolved solids |
| TOC | total organic carbon |
| TS | treatability study |
| USEPA | United States Environmental Protection Agency |
| µg/L | micrograms per liter |
| VOC | volatile organic compound |

CERTIFICATION

Data Validation Summary Report (DVSR ID: TetraTech-M12-2018rev1)

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 systems(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, not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

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

*not individually, but solely as
Pres. of*

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: 8/29/18

CERTIFICATION

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 prepared 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. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided: Prepared Data Validation Summary Report (DVSR ID: TetraTech-M12-2018rev1).



August 29, 2018

Kyle Hansen, CEM
Field Operations Manager/Geologist
Tetra Tech, Inc.

Date

Nevada CEM Certificate Number: 2167
Nevada CEM Expiration Date: September 18, 2020

1.0 INTRODUCTION

On behalf of the Nevada Environmental Response Trust (NERT), Tetra Tech, Inc. (Tetra Tech) has prepared this Data Validation Summary Report (DVSR) to assess the validity and usability of laboratory analytical data from the In-Situ Chromium Treatability Study (TS) for the NERT site, located in Clark County, Nevada. Sampling protocol can be found in the In-Situ Chromium Treatability Study Work Plan (Tetra Tech, 2016). Tetra Tech performed the TS which included the collection and analyses of soil and groundwater samples to assess the effectiveness of the TS. Tetra Tech collected additional quality control (QC) samples used to aid in assessing data quality.

TestAmerica, Inc. and subcontracted laboratories provided laboratory analytical services. The analyses were performed by the methods shown in Table 1.

The lab assigned job numbers also called sample delivery groups (SDGs) to all samples. The samples are associated with quality assurance and quality control (QA/QC) samples designed to document the data quality of the samples in each sampling round or within an SDG. Table 2 is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, matrix, and stage of validation. Laboratory data packages may be found in Appendix H.3.

The laboratory analytical data were verified and validated in accordance with procedures described in the Nevada Division of Environmental Protection (NDEP) *Data Verification and Validation Requirements - Supplement April, 2009* established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada and correspondence by NDEP personnel. The analytical data were evaluated for QA/QC based on the following documents: *Quality Assurance Project Plan (QAPP)*, Revision 1, July 18 2014; *NDEP Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas*, January 5 2012; *National Functional Guidelines for Inorganic Superfund Data Review*, August 2014; *National Functional Guidelines (NFG) for Superfund Organic Methods Data Review*, August 2014; 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. All samples were validated to Stage 2A using Automated Data Review Software (ADR). Additionally, ninety percent of the final round of data were validated to Stage 2B and ten percent to Stage 4. The ADR software was purchased from the commercial vendor Laboratory Data Consultants and has been vetted by various government and commercial organizations. The ADR software was configured to meet the NERT protocols and validation practices. The software is programmed to perform qualifier assignments in a manner that is protective to the environment and will assign qualifiers based on preset limits. The ADR software output data tables contain the raw data from the electronic validation which is reviewed to determine the final qualifier assignments. The review process uses professional judgement and NFG guidance to determine the final qualifiers. The final qualifiers are added to the database and are presented in the DVSR tables. Therefore, there will be some qualifiers in the ADR raw data that are excluded from the final data tables. After professional review, their inclusion was not warranted. The ADR software output data tables are found in Appendix H.1. Data Validation checklists are compiled in Appendix H.2.

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.

2.0 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 medium.

Environmental and laboratory QA/QC samples provide information on the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. Field QA/QC samples include equipment blanks (EBs), field blanks (FBs), trip blanks (TBs), field duplicates (FDs), and MS/MSDs. Laboratory QA/QC samples include method blanks, laboratory control samples/laboratory control sample duplicates (LCS/LCSDs), laboratory duplicates (DUP), and additional MS/MSDs needed to meet method requirements.

2.1 PRECISION

Precision is a measure of the agreement of analytical results under a given set of conditions. It is a quantity that is not measured directly but is calculated from concentrations. Precision can be expressed as the relative percent difference (RPD) between two measurements:

$$RPD = \frac{(C1 - C2) * 100}{(C1 + C2) / 2}$$

where:

C1 = reported concentration for the sample

C2 = reported concentration for the duplicate

Precision can be expressed as the percent relative standard deviation (%RSD) between three or more measurements:

$$\%RSD = (s/\bar{a}) * 100$$

where:

%RSD = percent relative standard deviation

s = standard deviation

\bar{a} = mean of replicate analyses

Precision is assessed by calculating %RSD during initial calibrations and RPD from the percent recoveries 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 results 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 appropriateness of the analytical method and effectiveness in recovering target analytes from a particular environmental matrix. The LCS sample is spiked with the same target analytes as the MS/MSD using an interference-free matrix instead of a field sample aliquot. The LCS measures laboratory efficiency in recovering target analytes in the absence of matrix interferences. It is used to verify that the analyses are being performed in control.

The laboratory analyzes laboratory replicates. A field sample is analyzed and an unspiked duplicate of that sample is analyzed also. The data reviewer compares the reported results of the primary analysis and the laboratory duplicate and calculates RPDs to assess laboratory precision.

Calibration precision is determined by calculating %RSD. 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 identical conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the allowed limit between MS/MSD samples or LCS/LCSD indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. The actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, instrument column fouling, and poor instrument stability. In 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 estimated, RPD exceedances from these duplicate pairs do not suggest a significant impact to data quality.

2.2 ACCURACY

Accuracy is a measure of the closeness of agreement between a measured value and the true value of an analytical parameter. It may be 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 continuing calibrations, MS, MSD, LCS, and LCSD. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Accuracy is determined using the percent recovery 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 native concentration in the unspiked sample

C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples and LCS/LCSD was evaluated with the acceptance criteria specified by the QAPP and laboratory limits. 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.

2.3 REPRESENTATIVENESS

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, calibration blanks, EBs, FBs, and TBs.

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.

Several methods require the use of initial calibration blanks (ICBs) and continuing calibration blanks (CCBs). ICBs and CCBs are laboratory grade water that are analyzed at the beginning, during, and at the end of sample analysis runs. The frequency is dependent on the analytical method. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

EBs 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. Equipment blanks were collected and analyzed for all target analytes.

FBs 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. Field blanks were collected and analyzed for all target analytes.

TBs consist of analyte-free water prepared at the laboratory, shipped to the field with sample containers, and returned to the laboratory with the samples receiving volatile organic compound (VOC) analysis. The trip blank is analyzed for VOCs using the same sample preparation and analysis procedures used for the actual field samples.

Contaminants found in both the environmental sample and the blank sample are assumed to be laboratory artifacts if both values are less than the PQL or if a sample result and blank contaminant value were greater than the PQL and less than 10 times the blank contaminant value. The blanks and associated samples were evaluated according to the NDEP *BMI Plant Sites and Common Areas Projects, Henderson, Nevada, Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas*, January 5 2012.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times are specific for each method and matrix analyzed. Holding time exceedance can cause loss of sample constituents due to biodegradation, precipitation, volatilization, and chemical degradation. Sample results for analyses that were performed after the method holding time were qualified according to NFGs.

2.4 COMPARABILITY

Comparability is a qualitative characteristic that defines the extent to which the data for a chemical parameter measurement are consistent with, and may be compared with, data from other sampling events. Comparability is dependent upon the design of the sampling plans and execution of activities consistent with approved plans. Factors affecting comparability include sample collection and handling techniques, matrix type, and analytical method. Comparability is achieved through the use of standard techniques to collect representative samples, consistent application of analytical method protocols, and reporting analytical results with appropriate units. Comparability is also dependent upon other PARCCS criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

2.5 COMPLETENESS

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 useable 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.

2.6 SENSITIVITY

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations. It is generally used to describe the instrument detection limits (DLs) or PQLs established to meet project 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. The laboratory data reports show MDL in place of the SQL. It was adjusted to reflect the sample analysis conditions. The PQL is the minimum concentration that can be reported based on the analysis of a specific matrix. It is often the lowest acceptable calibration point for the analyte. The laboratory data reports show reporting limit (RL) in place of the PQL. The laboratory reported detected analytes down to the adjusted MDL for this project. All results reported between the MDL and RL were qualified "J" by the laboratory. Sample results are compared to method and field blank results to identify possible effects of laboratory background and field procedures on sensitivity.

3.0 VALIDATION RESULTS AND PARCCS

This section discusses the validation results and the associated PARCCS criteria. Before conducting the PARCCS evaluation, the analytical data were validated according to the QAPP in place at the time of validation (ENVIRON, 2014), National Functional Guidelines (USEPA, 2014a, 2014b), and the analytical methods.

Samples not meeting the acceptance criteria were denoted with a validation qualifier that indicates a deficiency with the data. Table 3 contains validation qualifiers used in data validation.

When more than one validation qualifier was applicable to a data point, the final validation qualifier applied was based on a hierarchy.

The hierarchy of validation qualifiers is listed below:

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

Table 4 identifies the QC elements reviewed for each validation level. The actual elements are method-dependent.

Table 5 lists the reason codes used. Reason codes explain why data were qualified and identify possible limitations of data use. Reason codes are cumulative except when one of the flags is R. Only the reason code associated with the R flag will be used.

Table 6 presents the overall qualified results after the validation qualifiers and associated reason codes were applied.

3.1 PRECISION

3.1.1 Instrument Calibration

The objective of initial calibration is to ensure that an instrument is capable of producing acceptable qualitative and quantitative data by determining the ratio of instrument response to analyte concentration. %RSD is used to evaluate initial calibration results in method SW-8260B and provides a means of evaluating precision within an analytical system. All %RSDs were acceptable. No data were qualified for imprecision in the initial calibration.

3.1.2 MS/MSD and Lab Duplicate Samples

MS/MSD RPDs outside of acceptance criteria as stated in the QAPP are shown in Table 7. No data were qualified for lab duplicate imprecision.

Ten inorganic results in nine samples were qualified for MS/MSD RPD outliers. Qualified results were analyzed by EPA 300.0, EPA 365.3, SW-6010B, SW-6020, and SW-7199. Results qualified for MS/MSD RPDs can be found in Table 6 with reason code "Id". Since the inorganic NFG does not offer guidance for MS/MSD RPDs, the organic NFG criteria for MS/MSD RPDs was used. The organic NFG does not require qualification of non-detected results for MS/MSD RPD outliers. Only detected analytes were qualified.

3.1.3 LCS/LCSD Samples

All LCS/LCSD RPDs met acceptance criteria as stated in the QAPP.

3.1.4 FD Samples

For results > 5X the PQL, the field duplicate samples were evaluated for acceptable precision with RPDs. For results < 5X the PQL, samples were evaluated by the difference between the two measurements. Table 8 includes results where RPDs exceeded 30% for water or 50% for soils or the difference between the values was greater than the absolute value of the PQL. Forty-five field sample and field duplicate pairs were analyzed. RPDs and differences were determined for 1436 pairs of results in all analytical methods. Thirty-eight results were qualified for field duplicate imprecision. Results qualified for field duplicate imprecision are found in Table 6 with reason code "fd". The parent sample and the FD were qualified "J" for detects and "UJ" for non-detects.

3.2 ACCURACY

3.2.1 Calibration and Continuing Calibration

As stated previously, the objective of initial calibration is to ensure that an instrument is capable of producing acceptable qualitative and quantitative data by determining the ratio of instrument response to analyte concentrations. Typically, inorganic methods use regression models for initial calibration. Regression may also be used in organic analyses. The correlation coefficient indicates the linearity of the calibration curve. The coefficient of determination is an overall measure of the accuracy of the regression calibration curve. The objective of continuing calibration is to ensure that the instrument continues to meet the sensitivity and linearity criteria throughout each analytical sequence. Initial and continuing calibration verification (CCV) results provide a means of evaluating accuracy within a particular SDG. Percent difference or drift (%D), percent recovery (%R), correlation coefficient, and coefficient of determination are the parameters used to measure the effectiveness of instrument calibration. %R and %D are used to verify the ongoing calibration acceptability of the analytical system.

Calibration criteria were met for the project parameters.

3.2.2 MS/MSD Samples

Many MS/MSD %Rs were outside of acceptance criteria shown in the QAPP. MS/MSD %R exceedances can be found in Table 9. Analytes that were present in the parent sample in concentrations greater than 4 times the amount spiked were not qualified and are not shown in the table. In cases where the recoveries were high and the parent sample was non-detect, no qualification was applied. Qualifiers were applied to parent samples, unless FD samples or samples of known similarity were analyzed in the same SDG. Per the inorganic NFG, MS/MSD recoveries < 30% resulted in rejection of the data point. In cases where dilutions caused the low recoveries, the data were not rejected or qualified. The effect of dilution on matrix spike recoveries is determined on a case-by-case-basis using professional judgment, knowledge of the lab's procedures, and input from the lab. For some analyses, the lab may dilute the sample prior to preparation for analyses and prior to addition of the matrix spike compounds. The lab approaches this on a case-by-case basis. Fifty-two results were rejected because of low recoveries. 224 other results were qualified for MS/MSD %Rs. Associated results qualified for MS/MSD recoveries can be found in Table 6 with reason code "m".

3.2.3 LCS/LCSD Samples

No data were qualified for LCS/LCSD %Rs.

3.2.4 Serial Dilutions

The serial dilution is used to determine whether physical or chemical interferences exist due to matrix. The serial dilution is reviewed in Stage 2B and Stage 4 validation only. Serial dilution %Ds were less than 10% as required in the inorganic NFG. No data were qualified for serial dilution %Ds.

3.2.5 Interference Check Samples

Interference check samples were analyzed in the following methods: 314.0, 6010B, and 6020. All interference check %Rs met acceptance criteria of 80%-120%.

3.2.6 Surrogates

Surrogates were added to all samples analyzed for chlorate/chlorite analysis by EPA Method 300.1B and VOC analysis by SW-8260B. Many surrogate %Rs were outside the acceptance criteria stated in the QAPP because of dilution. No qualifiers were applied in those cases.

3.2.7 Internal Standards

The objective of internal standard analysis is to determine the existence and magnitude of instrument drift and physical interferences. Internal standards were reviewed in Stage 2B and Stage 4 validation only. Internal standard data were acceptable.

3.2.8 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications reviewed matched the reported values. Vanadium results in three samples had negative instrument readings with an absolute value greater than the PQL. The PQL may be inaccurate, too low to differentiate vanadium from the interference. The results are designated with reason code "q" in Table 6.

3.3 REPRESENTATIVENESS

3.3.1 Sample Preservation and Holding Times

Holding times and sample preservation were evaluated to verify compliance with the analytical methods. Volatile compounds in four samples were analyzed outside of the 7- day analytical holding for unpreserved samples. 261 undetected VOC compound results were rejected for missed holding times. 191 results were qualified for holding time infractions. All are designated with reason code "h" in Table 6. The exceedances are shown in Table 10. Based on hierarchy of validation qualification, the "J" qualifier, applied to detected results below the PQL and for other quality issues, supersedes the negative bias associated with missed holding times.

Five TOC results were qualified for improper preservation and holding time infractions, designated with reason codes "h, pH" in Table 6. The samples were collected in jars containing HCl, but when checked, the pH was >2. The lab adjusted the pH of the samples to pH < 2 prior to analysis. Since the samples were not analyzed within the 4-hour holding time for unpreserved samples, the holding time was grossly exceeded. The preservation infractions are shown in Table 11. The holding time exceedances are shown in Table 10. The results were qualified "J-".

3.3.2 Blanks

Method blanks, ICBs, CCBs, EBs, and FBs were analyzed to evaluate representativeness. The concentration of an analyte in any blank was used for data qualification. If contaminants were detected in a blank, the blank

concentration was compared to the sample results. If the analyte was not detected in the sample, no qualification was applied to the sample. If the sample concentration was greater than 10 times the amount in the blank, after dilutions were taken into account, no qualification was applied.

For concentrations detected in the sample below the PQL, the sample result was qualified “J”. Based on hierarchy of validation qualification, the “J” qualifier, in this case applied to detected results below the PQL, supersedes the positive bias associated with blank contamination. For concentrations detected in the sample above the PQL and less than 10 times the amount in the blank, the sample result was qualified “J+”.

3.3.2.1 Method and Calibration Blanks

Several inorganic contaminants were detected in the method and calibration blanks. For samples associated with the calibration blanks, the analyte concentration in the sample was greater 10x the amount in the blank. No qualification was applied. Twenty-three results were qualified because of contamination in the method blank. Method blank detections that resulted in qualification are shown in Table 12. Qualified results are shown in Table 6 with reason codes “bl”.

3.3.2.2 EBs, FBs, and TBs

There were 13 detections in the EBs, 4 detections in FBs, and 2 detections in TBs. Analytes were detected in the following methods: EPA 314.0, SW-6010B, SW-7199, and SW-8260. The detections are shown in Table 13. Two perchlorate results were qualified because of EB detections. Qualified results are shown in Table 6 with reason codes “be”.

3.4 COMPARABILITY

The laboratory used standard analytical methods for all of the analyses. In all cases, the adjusted MDLs attained were at or below the PQLs. Target compounds detected below the PQLs were flagged “J” by the laboratory and should be considered estimated. The comparability of the data is acceptable.

3.4.1 Sample Collection

Two samples for VFA-ICs were collected using incorrect bottles. The laboratory noted that the results were considered as estimated because the incorrect containers were used. Qualified results are shown in Table 6 with reason code “o”.

3.4.2 Sample Analysis

Eight dissolved sulfides results were rejected. The laboratory reported eight dissolved sulfide results based on the results of total sulfide analysis. The total sulfide analyses were non-detect. According to the case narrative, the lab assumed that the dissolved results would also be non-detect. They did not analyze the samples again but reported dissolved values in the data package and the EDD. Rejected results are shown in Table 6 with reason code “o”.

3.5 COMPLETENESS

The completeness level attained for the field samples, equipment blanks, field blanks, and trip blanks was 98% percent. Out of 17986 validated results, 321 were rejected. The percentage was calculated as the total number of accepted (non-rejected) sample results divided by the total number of sample results multiplied by 100. A completeness summary is provided in Table 14.

3.6 SENSITIVITY

The calibrations were evaluated for instrument sensitivity and were determined to be technically acceptable. Due to high analyte concentrations, many analytical runs were analyzed at dilutions. MDLs and PQLs were elevated.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the soil and water laboratory analytical results generated during the TS at the NERT site in Henderson, Nevada established that the overall project requirements and completeness levels were met. Most sample results were found to be useable. 321 results were rejected for either matrix effects, holding time infractions, or lab deficiency. Rejected results are not useable. Sample results that were qualified as estimated are useable for limited purposes only.

5.0 REFERENCES

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Tables

Table 1 Analytical Methods

| Method | Parameters |
|--------------------------------|---|
| EPA 300.0 | Chloride, Nitrate, Sulfate |
| EPA 300.0-soluble | Chloride, Nitrate, Sulfate |
| EPA 300.1B | Chlorate, Chlorite |
| EPA 314.0 | Perchlorate |
| EPA 351.2 | Total Kjeldahl Nitrogen |
| EPA 365.3 | Orthophosphate, Orthophosphorus, Phosphorus |
| RSK175 | Methane |
| SM2320B | Alkalinity as CaCO ₃ , Bicarbonate as CaCO ₃ , Carbonate as CaCO ₃ , and Hydroxide as CaCO ₃ |
| SM2320B-soluble | Alkalinity as CaCO ₃ |
| SM2340C | Total Hardness |
| SM2540C | Total Dissolved Solids (TDS) |
| SM2540C-soluble | TDS |
| SM4500-S2-D | Sulfide |
| SM5220D | Chemical Oxygen Demand |
| SM5310B | Total Organic Carbon (TOC) |
| SW-6010B | Calcium, Chromium, Iron, Manganese |
| SW-6010B-soluble | Calcium, Magnesium, Potassium, Sodium |
| SW-6020 | Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Uranium, Vanadium, Zinc |
| SW-7199 | Chromium [VI] |
| SW-7471A | Mercury |
| SW-8260B | Volatile Organic Compounds (VOCs) |
| SW-9045C-soluble | pH |
| SW-9060 | TOC |
| VFA by Ion Chromatography (IC) | Volatile Fatty Acids |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate | Chlorate, Chlorite | Perchlorate | Total Kjeldahl Nitrogen | Orthophosphate, Orthophosphorus, Phosphorus | Methane | Alkalinity, Bicarbonate, Carbonate, and Hydroxide | Total Hardness | Total Dissolved Solids | Sulfide |
|--------------|------------------------|---------------|--------|-------------|---------|------------------|----------------------------|--------------------|--------------|-------------------------|---|-----------|---|----------------|------------------------|----------------|
| | | | | | | | by EPA 300.0 | by EPA 300.1B | by EPA 314.0 | by EPA 351.2 | by EPA 365.3 | by RSK175 | by SM2320B | by SM2340C | by SM2540C | by SM4500-S2-D |
| 440-154192-1 | UF1W-04D-20160801 | 440-154192-1 | Water | 2016-08-01 | NORM | Stage 2A | X | | X | | | | | | X | |
| 440-154192-1 | UF1W-04D-20160801MS | 440-154192-1 | Water | 2016-08-01 | MS | Stage 2A | | | | | | | | | | |
| 440-154192-1 | UF1W-04D-20160801SD | 440-154192-1 | Water | 2016-08-01 | MSD | Stage 2A | | | | | | | | | | |
| 440-154192-1 | UF1W-04D-20160801-EB | 440-154192-2 | Water | 2016-08-01 | EB | Stage 2A | | | X | | | | | | | |
| 440-154252-1 | UFIW-04I-20160802 | 440-154252-1 | Water | 2016-08-02 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154252-1 | UFIW-04I-20160802-FD | 440-154252-2 | Water | 2016-08-02 | FD | Stage 2A | | | X | | | | | | | |
| 440-154252-1 | UFIW-04I-20160802-FDMS | 440-154252-2 | Water | 2016-08-02 | MS | Stage 2A | | | | | | | | | | |
| 440-154252-1 | UFIW-04I-20160802-FDSD | 440-154252-2 | Water | 2016-08-02 | MSD | Stage 2A | | | | | | | | | | |
| 440-154252-1 | UFIW-01D-20160802 | 440-154252-3 | Water | 2016-08-02 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154356-1 | UFIW-01I-2016802 | 440-154356-1 | Water | 2016-08-02 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154356-1 | UFIW-01I-2016802MS | 440-154356-1 | Water | 2016-08-02 | MS | Stage 2A | | | | | | | | | | |
| 440-154356-1 | UFIW-01I-2016802SD | 440-154356-1 | Water | 2016-08-02 | MSD | Stage 2A | | | | | | | | | | |
| 440-154356-1 | UFIW-01I-2016802-EB | 440-154356-2 | Water | 2016-08-02 | EB | Stage 2A | | | X | | | | | | | |
| 440-154356-1 | UFIW-01I-2016802-FB | 440-154356-3 | Water | 2016-08-02 | FB | Stage 2A | | | X | | | | | | | |
| 440-154551-1 | UFIW-02D-20160803 | 440-154551-1 | Water | 2016-08-03 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154551-1 | UFIW-02D-20160803MS | 440-154551-1 | Water | 2016-08-03 | MS | Stage 2A | | | X | | | | | | | |
| 440-154551-1 | UFIW-02D-20160803SD | 440-154551-1 | Water | 2016-08-03 | MSD | Stage 2A | | | X | | | | | | | |
| 440-154557-1 | UFIW-02I-20160803 | 440-154557-1 | Water | 2016-08-03 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154557-1 | UFIW-02I-20160803MS | 440-154557-1 | Water | 2016-08-03 | MS | Stage 2A | | | | | | | | | | |
| 440-154557-1 | UFIW-02I-20160803SD | 440-154557-1 | Water | 2016-08-03 | MSD | Stage 2A | | | | | | | | | | |
| 440-154557-1 | UFIW-02I-20160803-EB | 440-154557-2 | Water | 2016-08-03 | EB | Stage 2A | | | X | | | | | | | |
| 440-154557-1 | UFIW-02I-20160803-FB | 440-154557-3 | Water | 2016-08-03 | FB | Stage 2A | | | X | | | | | | | |
| 440-154654-1 | UFIW-03D-20160804 | 440-154654-1 | Water | 2016-08-04 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154654-1 | UFIW-03I-20160804 | 440-154654-2 | Water | 2016-08-04 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154692-1 | UFIW-03S-20160804 | 440-154692-1 | Water | 2016-08-04 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154692-1 | UFIW-03S-20160804MS | 440-154692-1 | Water | 2016-08-04 | MS | Stage 2A | | | | | | | | | | |
| 440-154692-1 | UFIW-03S-20160804SD | 440-154692-1 | Water | 2016-08-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-154692-1 | UFIW-03D-20160804-FB | 440-154692-2 | Water | 2016-08-04 | FB | Stage 2A | | | X | | | | | | | |
| 440-154692-1 | UFIW-03S-20160804-EB | 440-154692-3 | Water | 2016-08-04 | EB | Stage 2A | | | X | | | | | | | |
| 440-154772-1 | UFIW-01S-20160805 | 440-154772-1 | Water | 2016-08-05 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154772-1 | UFIW-01S-20160805MS | 440-154772-1 | Water | 2016-08-05 | MS | Stage 2A | | | | | | | | | | |
| 440-154772-1 | UFIW-01S-20160805SD | 440-154772-1 | Water | 2016-08-05 | MSD | Stage 2A | | | | | | | | | | |
| 440-154772-1 | UFIW-02S-20160805 | 440-154772-2 | Water | 2016-08-05 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154772-1 | UFIW-04S-20160805 | 440-154772-3 | Water | 2016-08-05 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154772-1 | UFIW-01S-20160805-FB | 440-154772-4 | Water | 2016-08-05 | FB | Stage 2A | | | X | | | | | | | |
| 440-154850-1 | UFMW-03D-20160808 | 440-154850-1 | Water | 2016-08-08 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154850-1 | UFMW-03D-20160808MS | 440-154850-1 | Water | 2016-08-08 | MS | Stage 2A | | | | | | | | | | |
| 440-154850-1 | UFMW-03D-20160808SD | 440-154850-1 | Water | 2016-08-08 | MSD | Stage 2A | | | | | | | | | | |
| 440-154930-1 | UFMW-03I-20160808MS | 440-154930-1 | Water | 2016-08-08 | MS | Stage 2A | | | | | | | | | | |
| 440-154930-1 | UFMW-03I-20160808SD | 440-154930-1 | Water | 2016-08-08 | MSD | Stage 2A | | | | | | | | | | |
| 440-154930-1 | UFMW-03I-20160808 | 440-154930-1 | Water | 2016-08-08 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154930-1 | UFMW-03I-20160808-EB | 440-154930-2 | Water | 2016-08-08 | EB | Stage 2A | | | X | | | | | | | |
| 440-154960-1 | UFMW-01D-20160809 | 440-154960-1 | Water | 2016-08-09 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154960-1 | UFMW-01D-20160809MS | 440-154960-1 | Water | 2016-08-09 | MS | Stage 2A | | | | | | | | | | |
| 440-154960-1 | UFMW-01D-20160809SD | 440-154960-1 | Water | 2016-08-09 | MSD | Stage 2A | | | | | | | | | | |
| 440-154960-1 | UFMW-01I-20160809 | 440-154960-2 | Water | 2016-08-09 | NORM | Stage 2A | | | X | | | | | | | |
| 440-154960-1 | UFMW-01I-20160809-FD | 440-154960-3 | Water | 2016-08-09 | FD | Stage 2A | | | X | | | | | | | |
| 440-154960-1 | UFMW-01I-20160809-EB | 440-154960-4 | Water | 2016-08-09 | EB | Stage 2A | | | X | | | | | | | |
| 440-155089-1 | UFMW-01S-20160809 | 440-155089-1 | Water | 2016-08-09 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155247-1 | UFMW-02I-20160810 | 440-155247-1 | Water | 2016-08-10 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155247-1 | UFMW-02I-20160810-EB | 440-155247-2 | Water | 2016-08-10 | EB | Stage 2A | | | X | | | | | | | |
| 440-155249-1 | UFMW-02D-20160810 | 440-155249-1 | Water | 2016-08-10 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155249-1 | UFMW-02D-20160810MS | 440-155249-1 | Water | 2016-08-10 | MS | Stage 2A | | | X | | | | | | | |
| 440-155249-1 | UFMW-02D-20160810SD | 440-155249-1 | Water | 2016-08-10 | MSD | Stage 2A | | | X | | | | | | | |
| 440-155363-1 | UFMW-02S-20160810 | 440-155363-1 | Water | 2016-08-10 | NORM | Stage 2A | | | X | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate | Chlorate, Chlorite | Perchlorate | Total Kjeldahl Nitrogen | Orthophosphate, Orthophosphorus, Phosphorus | Methane | Alkalinity, Bicarbonate, Carbonate, and Hydroxide | Total Hardness | Total Dissolved Solids | Sulfide |
|--------------|------------------------|----------------------|--------|-------------|---------|------------------|----------------------------|--------------------|--------------|-------------------------|---|-----------|---|----------------|------------------------|----------------|
| | | | | | | | by EPA 300.0 | by EPA 300.1B | by EPA 314.0 | by EPA 351.2 | by EPA 365.3 | by RSK175 | by SM2320B | by SM2340C | by SM2540C | by SM4500-S2-D |
| 440-155628-1 | UFIW-05D-20160815 | 440-155628-1 | Water | 2016-08-15 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155628-1 | UFIW-05I-20160815 | 440-155628-2 | Water | 2016-08-15 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155628-1 | UFIW-05I-20160815-FD | 440-155628-3 | Water | 2016-08-15 | FD | Stage 2A | | | X | | | | | | | |
| 440-155688-1 | UFIW-06D-20160815 | 440-155688-1 | Water | 2016-08-15 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155688-1 | UFIW-06D-20160815MS | 440-155688-1 | Water | 2016-08-15 | MS | Stage 2A | | | X | | | | | | | |
| 440-155688-1 | UFIW-06D-20160815SD | 440-155688-1 | Water | 2016-08-15 | MSD | Stage 2A | | | X | | | | | | | |
| 440-155688-1 | UFIW-05D-20160815-FB | 440-155688-2 | Water | 2016-08-15 | FB | Stage 2A | | | X | | | | | | | |
| 440-155688-1 | UFIW-06D-20160815-EB | 440-155688-3 | Water | 2016-08-15 | EB | Stage 2A | | | X | | | | | | | |
| 440-155759-1 | UFIW-06I-20160816 | 440-155759-1 | Water | 2016-08-16 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155759-1 | UFIW-06I-20160816MS | 440-155759-1 | Water | 2016-08-16 | MS | Stage 2A | | | X | | | | | | | |
| 440-155759-1 | UFIW-06I-20160816SD | 440-155759-1 | Water | 2016-08-16 | MSD | Stage 2A | | | X | | | | | | | |
| 440-155761-1 | UFIW-06S-20160816 | 440-155761-1 | Water | 2016-08-16 | NORM | Stage 2A | X | | X | | | | | | X | |
| 440-155766-1 | UFIW-07D-20160816 | 440-155766-1 | Water | 2016-08-16 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155766-1 | UFIW-07D-20160816MS | 440-155766-1 | Water | 2016-08-16 | MS | Stage 2A | | | X | | | | | | | |
| 440-155766-1 | UFIW-06I-20160816-FB | 440-155766-2 | Water | 2016-08-16 | FB | Stage 2A | | | X | | | | | | | |
| 440-155766-1 | UFIW-07D-20160816-EB | 440-155766-3 | Water | 2016-08-16 | EB | Stage 2A | | | X | | | | | | | |
| 440-155766-1 | 440-155766-B-1-C MSDSD | 440-155766-B-1-C MSD | Water | 2016-08-16 | MSD | Stage 2A | | | | | | | | | | |
| 440-155923-1 | UFIW-07I-20160817 | 440-155923-1 | Water | 2016-08-17 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155923-1 | UFIW-07I-20160817MS | 440-155923-1 | Water | 2016-08-17 | MS | Stage 2A | | | | | | | | | | |
| 440-155923-1 | UFIW-07I-20160817SD | 440-155923-1 | Water | 2016-08-17 | MSD | Stage 2A | | | | | | | | | | |
| 440-155923-1 | UFIW-07S-20160817 | 440-155923-2 | Water | 2016-08-17 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155923-1 | UFIW-08D-20160817 | 440-155923-3 | Water | 2016-08-17 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155966-1 | UFIW-08I-20160817 | 440-155966-1 | Water | 2016-08-17 | NORM | Stage 2A | | | X | | | | | | | |
| 440-155966-1 | UFIW-07I-20160817-FB | 440-155966-2 | Water | 2016-08-17 | FB | Stage 2A | | | X | | | | | | | |
| 440-155966-1 | UFIW-07I-20160817-FBMS | 440-155966-2 | Water | 2016-08-17 | MS | Stage 2A | | | | | | | | | | |
| 440-155966-1 | UFIW-07I-20160817-FBSD | 440-155966-2 | Water | 2016-08-17 | MSD | Stage 2A | | | | | | | | | | |
| 440-155966-1 | UFIW-08I-20160817-EB | 440-155966-3 | Water | 2016-08-17 | EB | Stage 2A | | | X | | | | | | | |
| 440-155966-1 | UFIW-08I-20160817-EBMS | 440-155966-3 | Water | 2016-08-17 | MS | Stage 2A | | | | | | | | | | |
| 440-155966-1 | UFIW-08I-20160817-EBSD | 440-155966-3 | Water | 2016-08-17 | MSD | Stage 2A | | | | | | | | | | |
| 440-156054-1 | UFMW-04D-20160818 | 440-156054-1 | Water | 2016-08-18 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156054-1 | UFMW-04I-20160818 | 440-156054-2 | Water | 2016-08-18 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156054-1 | UFMW-04I-20160818-FD | 440-156054-3 | Water | 2016-08-18 | FD | Stage 2A | | | X | | | | | | | |
| 440-156076-1 | UFMW-04D-20160818-FB | 440-156076-1 | Water | 2016-08-18 | FB | Stage 2A | | | X | | | | | | | |
| 440-156076-1 | UFMW-04D-20160818-FBMS | 440-156076-1 | Water | 2016-08-18 | MS | Stage 2A | | | X | | | | | | | |
| 440-156076-1 | UFMW-04D-20160818-FBSD | 440-156076-1 | Water | 2016-08-18 | MSD | Stage 2A | | | X | | | | | | | |
| 440-156076-1 | UFMW-04I-20160818-EB | 440-156076-2 | Water | 2016-08-18 | EB | Stage 2A | | | X | | | | | | | |
| 440-156173-1 | UFMW-06S-20160819 | 440-156173-1 | Water | 2016-08-19 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156173-1 | UFMW-06S-20160819MS | 440-156173-1 | Water | 2016-08-19 | MS | Stage 2A | | | X | | | | | | | |
| 440-156173-1 | UFMW-06S-20160819SD | 440-156173-1 | Water | 2016-08-19 | MSD | Stage 2A | | | X | | | | | | | |
| 440-156174-1 | UFIW-05S-20160819 | 440-156174-1 | Water | 2016-08-19 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156174-1 | UFIW-08S-20160819 | 440-156174-2 | Water | 2016-08-19 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156174-1 | UFMW-04S-20160819 | 440-156174-3 | Water | 2016-08-19 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156174-1 | UFMW-05S-20160819 | 440-156174-4 | Water | 2016-08-19 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156174-1 | UFMW-05S-20160819MS | 440-156174-4 | Water | 2016-08-19 | MS | Stage 2A | | | | | | | | | | |
| 440-156174-1 | UFMW-05S-20160819SD | 440-156174-4 | Water | 2016-08-19 | MSD | Stage 2A | | | | | | | | | | |
| 440-156174-1 | UFIW-05S-20160819-FB | 440-156174-5 | Water | 2016-08-19 | FB | Stage 2A | | | X | | | | | | | |
| 440-156174-1 | UFMW-06S-20160819-EB | 440-156174-6 | Water | 2016-08-19 | EB | Stage 2A | | | X | | | | | | | |
| 440-156251-1 | UFMW-06I-20160822 | 440-156251-1 | Water | 2016-08-22 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156251-1 | UFMW-06I-20160822MS | 440-156251-1 | Water | 2016-08-22 | MS | Stage 2A | | | | | | | | | | |
| 440-156251-1 | UFMW-06I-20160822SD | 440-156251-1 | Water | 2016-08-22 | MSD | Stage 2A | | | | | | | | | | |
| 440-156251-1 | UFMW-06D-20160822 | 440-156251-2 | Water | 2016-08-22 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156258-1 | UFMW-05D-20160822 | 440-156258-1 | Water | 2016-08-22 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156258-1 | UFMW-05D-20160822MS | 440-156258-1 | Water | 2016-08-22 | MS | Stage 2A | | | | | | | | | | |
| 440-156258-1 | UFMW-05D-20160822SD | 440-156258-1 | Water | 2016-08-22 | MSD | Stage 2A | | | | | | | | | | |
| 440-156258-1 | UFMW-05D-20160822-EB | 440-156258-2 | Water | 2016-08-22 | EB | Stage 2A | | | X | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate by EPA 300.0 | Chlorate, Chlorite by EPA 300.1B | Perchlorate by EPA 314.0 | Total Kjeldahl Nitrogen by EPA 351.2 | Orthophosphate, Orthophosphorus, Phosphorus by EPA 365.3 | Methane by RSK175 | Alkalinity, Bicarbonate, Carbonate, and Hydroxide by SM2320B | Total Hardness by SM2340C | Total Dissolved Solids by SM2540C | Sulfide by SM4500-S2-D |
|--------------|----------------------|---------------|--------|-------------|---------|------------------|--|-------------------------------------|-----------------------------|---|---|----------------------|---|------------------------------|--------------------------------------|---------------------------|
| 440-156318-1 | UFMW-05I-20160823 | 440-156318-1 | Water | 2016-08-23 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156318-1 | E2-1-20160823 | 440-156318-2 | Water | 2016-08-23 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156318-1 | E2-1-20160823MS | 440-156318-2 | Water | 2016-08-23 | MS | Stage 2A | | | X | | | | | | | |
| 440-156318-1 | E2-1-20160823SD | 440-156318-2 | Water | 2016-08-23 | MSD | Stage 2A | | | X | | | | | | | |
| 440-156318-1 | E2-2-20160823 | 440-156318-3 | Water | 2016-08-23 | NORM | Stage 2A | | | X | | | | | | | |
| 440-156745-1 | UFIW-06I-20160826 | 440-156745-1 | Water | 2016-08-26 | NORM | Stage 2A | | | | | | | | | | |
| 440-156745-1 | UFIW-06S-20160826 | 440-156745-2 | Water | 2016-08-26 | NORM | Stage 2A | | | | | | | | | | |
| 440-159110-1 | UFMW-03D-20160920 | 440-159110-1 | Water | 2016-09-20 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159110-1 | UFMW-03D-20160920 | I209-09 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159117-1 | UFMW-01S-20160920 | 440-159117-1 | Water | 2016-09-20 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159117-1 | UFMW-01S-20160920MS | 440-159117-1 | Water | 2016-09-20 | MS | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-01S-20160920SD | 440-159117-1 | Water | 2016-09-20 | MSD | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-01I-20160920 | 440-159117-2 | Water | 2016-09-20 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159117-1 | UFMW-01D-20160920 | 440-159117-3 | Water | 2016-09-20 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159117-1 | UFMW-02S-20160920 | 440-159117-4 | Water | 2016-09-20 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159117-1 | UFMW-02I-20160920 | 440-159117-5 | Water | 2016-09-20 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159117-1 | UFMW-02D-20160920 | 440-159117-6 | Water | 2016-09-20 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159117-1 | UFMW-03I-20160920 | 440-159117-7 | Water | 2016-09-20 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159117-1 | UFMW-03I-20160920-FD | 440-159117-8 | Water | 2016-09-20 | FD | Stage 2A | X | X | X | | | | | | | |
| 440-159117-1 | UFMW-01S-20160920 | I209-01 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159117-1 | UFMW-01S-20160920 | I209-01JR | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159117-1 | UFMW-01I-20160920 | I209-02 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159117-1 | UFMW-01D-20160920 | I209-03 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159117-1 | UFMW-02S-20160920 | I209-04I | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159117-1 | UFMW-02S-20160920 | I209-04JR | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159117-1 | UFMW-02I-20160920 | I209-05 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159117-1 | UFMW-02D-20160920 | I209-06 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159117-1 | UFMW-03I-20160920 | I209-07 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159117-1 | UFMW-03I-20160920-MS | I209-07M | Water | 2016-09-20 | MS | Stage 2A | | | | | | | | | | X |
| 440-159117-1 | UFMW-03I-20160920-FD | I209-08 | Water | 2016-09-20 | FD | Stage 2A | | | | | | | | | | X |
| 440-159260-1 | UFMW-03D-20160921 | 440-159260-1 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159260-1 | UFMW-03D-20160921MS | 440-159260-1 | Water | 2016-09-21 | MS | Stage 2A | | | | | | | | | | |
| 440-159260-1 | UFMW-03D-20160921SD | 440-159260-1 | Water | 2016-09-21 | MSD | Stage 2A | | | | | | | | | | |
| 440-159260-1 | UFMW-03D-20160921 | I210-01 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159262-1 | UFMW-01S-20160921 | 440-159262-1 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159262-1 | UFMW-01I-20160921 | 440-159262-2 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159262-1 | UFMW-01I-20160921MS | 440-159262-2 | Water | 2016-09-21 | MS | Stage 2A | X | | | | | | | | | |
| 440-159262-1 | UFMW-01I-20160921SD | 440-159262-2 | Water | 2016-09-21 | MSD | Stage 2A | X | | | | | | | | | |
| 440-159262-1 | UFMW-01D-20160921 | 440-159262-3 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159262-1 | UFMW-02S-20160921 | 440-159262-4 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159262-1 | UFMW-02I-20160921 | 440-159262-5 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159262-1 | UFMW-02D-20160921 | 440-159262-6 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159262-1 | UFMW-03I-20160921 | 440-159262-7 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159262-1 | UFMW-03I-20160921MS | 440-159262-7 | Water | 2016-09-21 | MS | Stage 2A | X | | | | | | | | | |
| 440-159262-1 | UFMW-03I-20160921SD | 440-159262-7 | Water | 2016-09-21 | MSD | Stage 2A | X | | | | | | | | | |
| 440-159262-1 | UFMW-03I-20160921-FD | 440-159262-8 | Water | 2016-09-21 | FD | Stage 2A | X | X | X | | | | | | | |
| 440-159262-1 | UFMW-01S-20160921 | I210-02 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159262-1 | UFMW-01S-20160921 | I210-02JR | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159262-1 | UFMW-01I-20160921 | I210-03 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159262-1 | UFMW-01D-20160921 | I210-04 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159262-1 | UFMW-02S-20160921 | I210-05I | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159262-1 | UFMW-02S-20160921 | I210-05IR | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159262-1 | UFMW-02I-20160921 | I210-06 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159262-1 | UFMW-02D-20160921 | I210-07 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159262-1 | UFMW-03I-20160921 | I210-08 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate by EPA 300.0 | Chlorate, Chlorite by EPA 300.1B | Perchlorate by EPA 314.0 | Total Kjeldahl Nitrogen by EPA 351.2 | Orthophosphate, Orthophosphorus, Phosphorus by EPA 365.3 | Methane by RSK175 | Alkalinity, Bicarbonate, Carbonate, and Hydroxide by SM2320B | Total Hardness by SM2340C | Total Dissolved Solids by SM2540C | Sulfide by SM4500-S2-D |
|--------------|------------------------|-----------------|--------|-------------|---------|------------------|--|-------------------------------------|-----------------------------|---|---|----------------------|---|------------------------------|--------------------------------------|---------------------------|
| 440-159262-1 | UFMW-03I-20160921-FD | I210-09 | Water | 2016-09-21 | FD | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-01S-20160921B | 440-159323-1 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159323-1 | UFMW-01S-20160921MS | 440-159323-1 | Water | 2016-09-21 | MS | Stage 2A | | | X | | | | | | | |
| 440-159323-1 | UFMW-01S-20160921SD | 440-159323-1 | Water | 2016-09-21 | MSD | Stage 2A | | | X | | | | | | | |
| 440-159323-1 | UFMW-01I-20160921B | 440-159323-2 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159323-1 | UFMW-01I-20160921BMS | 440-159323-2 | Water | 2016-09-21 | MS | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01I-20160921BSD | 440-159323-2 | Water | 2016-09-21 | MSD | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01D-20160921B | 440-159323-3 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159323-1 | UFMW-01D-20160921MS | 440-159323-3MS | Water | 2016-09-21 | MS | Stage 2A | X | X | X | | | | | | | |
| 440-159323-1 | UFMW-01D-20160921SD | 440-159323-3MSD | Water | 2016-09-21 | MSD | Stage 2A | X | X | X | | | | | | | |
| 440-159323-1 | UFMW-02I-20160921B | 440-159323-4 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159323-1 | UFMW-02D-20160921B | 440-159323-5 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159323-1 | UFMW-03I-20160921B | 440-159323-6 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159323-1 | UFMW-03D-20160921B | 440-159323-7 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159323-1 | UFMW-01I-20160921-FD | 440-159323-8 | Water | 2016-09-21 | FD | Stage 2A | X | X | X | | | | | | | |
| 440-159323-1 | UFMW-01S-20160921B | I210-10 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-01I-20160921B | I210-11 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-01D-20160921B | I210-12 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-01D-20160921MS | I210-12M | Water | 2016-09-21 | MS | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-01D-20160921B | I210-12R | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-01D-20160921MS | I210-12RM | Water | 2016-09-21 | MS | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-02I-20160921B | I210-13 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-02D-20160921B | I210-14 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-03I-20160921B | I210-15 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-03D-20160921B | I210-16 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-01I-20160921-FD | I210-17 | Water | 2016-09-21 | FD | Stage 2A | | | | | | | | | | X |
| 440-159323-1 | UFMW-01I-20160921-FDMS | I210-17M | Water | 2016-09-21 | MS | Stage 2A | | | | | | | | | | X |
| 440-159324-1 | UFMW-02S-20160921B | 440-159324-1 | Water | 2016-09-21 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159324-1 | UFMW-02S-20160921B | I210-18 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159324-1 | UFMW-02S-20160921B | I210-18I | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159419-1 | UFMW-03I-20160922 | 440-159419-1 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159419-1 | UFMW-01I-20160922 | 440-159419-2 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159419-1 | UFMW-02S-20160922 | 440-159419-3 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159419-1 | UFMW-02I-20160922 | 440-159419-4 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159419-1 | UFMW-02I-20160922-FD | 440-159419-5 | Water | 2016-09-22 | FD | Stage 2A | X | X | X | | | | | | | |
| 440-159419-1 | UFMW-02D-20160922 | 440-159419-6 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159419-1 | UFMW-02D-20160922MS | 440-159419-6 | Water | 2016-09-22 | MS | Stage 2A | X | X | X | | | | | | | |
| 440-159419-1 | UFMW-02D-20160922SD | 440-159419-6 | Water | 2016-09-22 | MSD | Stage 2A | X | X | X | | | | | | | |
| 440-159419-1 | UFMW-01S-20160922 | 440-159419-7 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159419-1 | UFMW-03D-20160922 | 440-159419-8 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159419-1 | UFMW-03I-20160922 | I211-01 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159419-1 | UFMW-01I-20160922 | I211-02 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159419-1 | UFMW-02S-20160922 | I211-03I | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159419-1 | UFMW-02I-20160922 | I211-04 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159419-1 | UFMW-02I-20160922-FD | I211-05 | Water | 2016-09-22 | FD | Stage 2A | | | | | | | | | | X |
| 440-159419-1 | UFMW-02D-20160922 | I211-06 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159419-1 | UFMW-02D-20160922MS | I211-06M | Water | 2016-09-22 | MS | Stage 2A | | | | | | | | | | X |
| 440-159419-1 | UFMW-01S-20160922 | I211-07 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159419-1 | UFMW-01S-20160922 | I211-07I | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159419-1 | UFMW-03D-20160922 | I211-08 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159420-1 | UFMW-01D-20160922 | 440-159420-1 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159420-1 | UFMW-01D-20160922 | I211-09 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159514-1 | UFMW-01S-20160922B | 440-159514-1 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159514-1 | UFMW-01I-20160922B | 440-159514-2 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159514-1 | UFMW-02S-20160922B | 440-159514-3 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate | Chlorate, Chlorite | Perchlorate | Total Kjeldahl Nitrogen | Orthophosphate, Orthophosphorus, Phosphorus | Methane | Alkalinity, Bicarbonate, Carbonate, and Hydroxide | Total Hardness | Total Dissolved Solids | Sulfide |
|--------------|------------------------|-----------------|--------|-------------|---------|------------------|----------------------------|--------------------|--------------|-------------------------|---|-----------|---|----------------|------------------------|----------------|
| | | | | | | | by EPA 300.0 | by EPA 300.1B | by EPA 314.0 | by EPA 351.2 | by EPA 365.3 | by RSK175 | by SM2320B | by SM2340C | by SM2540C | by SM4500-S2-D |
| 440-159514-1 | UFMW-02I-20160922B | 440-159514-4 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159514-1 | UFMW-03I-20160922B | 440-159514-5 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159514-1 | UFMW-03D-20160922B | 440-159514-6 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159514-1 | UFMW-01D-20160922B | 440-159514-7 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159514-1 | UFMW-01I-20160922-FD | 440-159514-8 | Water | 2016-09-22 | FD | Stage 2A | X | X | X | | | | | | | |
| 440-159514-1 | UFMW-01I-20160922-FDMS | 440-159514-8 | Water | 2016-09-22 | MS | Stage 2A | | | | | | | | | | |
| 440-159514-1 | UFMW-01I-20160922-FDSD | 440-159514-8 | Water | 2016-09-22 | MSD | Stage 2A | | | | | | | | | | |
| 440-159514-1 | UFMW-01S-20160922B | I225-01 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159514-1 | UFMW-01S-20160922B | I225-01I | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159514-1 | UFMW-01I-20160922B | I225-02 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159514-1 | UFMW-02S-20160922B | I225-03I | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159514-1 | UFMW-02I-20160922B | I225-04 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159514-1 | UFMW-03I-20160922B | I225-05 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159514-1 | UFMW-03D-20160922B | I225-06 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159514-1 | UFMW-01D-20160922B | I225-07 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159514-1 | UFMW-01I-20160922-FD | I225-08 | Water | 2016-09-22 | FD | Stage 2A | | | | | | | | | | X |
| 440-159520-1 | UFMW-02D-20160922B | 440-159520-1 | Water | 2016-09-22 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159520-1 | UFMW-02D-20160922BMS | 440-159520-1 | Water | 2016-09-22 | MS | Stage 2A | X | | | | | | | | | |
| 440-159520-1 | UFMW-02D-20160922BSD | 440-159520-1 | Water | 2016-09-22 | MSD | Stage 2A | X | | | | | | | | | |
| 440-159520-1 | UFMW-02D-20160922B | I223-01 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159565-1 | UFMW-01S-20160923 | 440-159565-1 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159565-1 | UFMW-01D-20160923 | 440-159565-2 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159565-1 | UFMW-01D-20160923MS | 440-159565-2MS | Water | 2016-09-23 | MS | Stage 2A | X | X | X | | | | | | | |
| 440-159565-1 | UFMW-01D-20160923SD | 440-159565-2MSD | Water | 2016-09-23 | MSD | Stage 2A | X | X | X | | | | | | | |
| 440-159565-1 | UFMW-02S-20160923 | 440-159565-3 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159565-1 | UFMW-02I-20160923 | 440-159565-4 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159565-1 | UFMW-02D-20160923 | 440-159565-5 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159565-1 | UFMW-03I-20160923 | 440-159565-6 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159565-1 | UFMW-03D-20160923 | 440-159565-7 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159565-1 | UFMW-03I-20160923-FD | 440-159565-8 | Water | 2016-09-23 | FD | Stage 2A | X | X | X | | | | | | | |
| 440-159565-1 | UFMW-01S-20160923 | I222-01 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159565-1 | UFMW-01S-20160923 | I222-01I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159565-1 | UFMW-01D-20160923 | I222-02 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159565-1 | UFMW-01D-20160923MS | I222-02M | Water | 2016-09-23 | MS | Stage 2A | | | | | | | | | | X |
| 440-159565-1 | UFMW-02S-20160923 | I222-03I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159565-1 | UFMW-02I-20160923 | I222-04 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159565-1 | UFMW-02D-20160923 | I222-05 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159565-1 | UFMW-03I-20160923 | I222-06 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159565-1 | UFMW-03D-20160923 | I222-07 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159565-1 | UFMW-03I-20160923-FD | I222-08 | Water | 2016-09-23 | FD | Stage 2A | | | | | | | | | | X |
| 440-159573-1 | UFMW-01I-20160923 | 440-159573-1 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159573-1 | UFMW-01I-20160923 | I221-01 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFMW-01S-20160923B | 440-159613-1 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFIW-01I-20160923 | 440-159613-10 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFIW-01D-20160923 | 440-159613-11 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFIW-02S-20160923 | 440-159613-12 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFIW-02I-20160923 | 440-159613-13 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFIW-02D-20160923 | 440-159613-14 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFIW-03I-20160923 | 440-159613-15 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFIW-04S-20160923 | 440-159613-16 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFIW-04I-20160923 | 440-159613-17 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFIW-04D-20160923 | 440-159613-18 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFIW-04D-20160923MS | 440-159613-18 | Water | 2016-09-23 | MS | Stage 2A | X | | | | | | | | | |
| 440-159613-1 | UFIW-04D-20160923SD | 440-159613-18 | Water | 2016-09-23 | MSD | Stage 2A | X | | | | | | | | | |
| 440-159613-1 | UFIW-04I-20160923-FD | 440-159613-19 | Water | 2016-09-23 | FD | Stage 2A | X | X | X | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate | Chlorate, Chlorite | Perchlorate | Total Kjeldahl Nitrogen | Orthophosphate, Orthophosphorus, Phosphorus | Methane | Alkalinity, Bicarbonate, Carbonate, and Hydroxide | Total Hardness | Total Dissolved Solids | Sulfide |
|--------------|----------------------|-----------------|--------|-------------|---------|------------------|----------------------------|--------------------|--------------|-------------------------|---|-----------|---|----------------|------------------------|----------------|
| | | | | | | | by EPA 300.0 | by EPA 300.1B | by EPA 314.0 | by EPA 351.2 | by EPA 365.3 | by RSK175 | by SM2320B | by SM2340C | by SM2540C | by SM4500-S2-D |
| 440-159613-1 | UFMW-01I-20160923B | 440-159613-2 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFMW-01I-20160923MS | 440-159613-2 | Water | 2016-09-23 | MS | Stage 2A | X | | | | | | | | | |
| 440-159613-1 | UFMW-01I-20160923SD | 440-159613-2 | Water | 2016-09-23 | MSD | Stage 2A | X | | | | | | | | | |
| 440-159613-1 | UFIW-04S-20160923-FD | 440-159613-20 | Water | 2016-09-23 | FD | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFMW-01D-20160923B | 440-159613-3 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFMW-02S-20160923B | 440-159613-4 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFMW-02I-20160923B | 440-159613-5 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFMW-02D-20160923B | 440-159613-6 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFMW-03I-20160923B | 440-159613-7 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFMW-03D-20160923B | 440-159613-8 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFMW-03D-20160923MS | 440-159613-8 | Water | 2016-09-23 | MS | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFMW-03D-20160923SD | 440-159613-8 | Water | 2016-09-23 | MSD | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-01S-20160923 | 440-159613-9 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159613-1 | UFMW-01S-20160923B | I226-01 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFMW-01I-20160923B | I226-02 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFMW-01I-20160923MS | I226-02M | Water | 2016-09-23 | MS | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFMW-01D-20160923B | I226-03 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFMW-02S-20160923B | I226-04I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFMW-02I-20160923B | I226-05 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFMW-02D-20160923B | I226-06 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFMW-03I-20160923B | I226-07 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFMW-03D-20160923B | I226-08 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-01S-20160923 | I226-09 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-01S-20160923 | I226-09I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-01I-20160923 | I226-10 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-01D-20160923 | I226-11 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-02S-20160923 | I226-12 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-02S-20160923 | I226-12I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-02I-20160923 | I226-13 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-02D-20160923 | I226-14 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-03I-20160923 | I226-15 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-04S-20160923 | I226-16 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-04I-20160923 | I226-17 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-04D-20160923 | I226-18 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-04D-20160923 | I226-18I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-04I-20160923-FD | I226-19 | Water | 2016-09-23 | FD | Stage 2A | | | | | | | | | | X |
| 440-159613-1 | UFIW-04S-20160923-FD | I226-20 | Water | 2016-09-23 | FD | Stage 2A | | | | | | | | | | X |
| 440-159616-1 | UFIW-03S-20160923 | 440-159616-1 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159616-1 | UFIW-03S-20160923MS | 440-159616-1 | Water | 2016-09-23 | MS | Stage 2A | | | | | | | | | | |
| 440-159616-1 | UFIW-03S-20160923SD | 440-159616-1 | Water | 2016-09-23 | MSD | Stage 2A | | | | | | | | | | |
| 440-159616-1 | UFIW-03D-20160923 | 440-159616-2 | Water | 2016-09-23 | NORM | Stage 2A | X | X | X | | | | | | | |
| 440-159616-1 | UFIW-03D-20160923MS | 440-159616-2 | Water | 2016-09-23 | MS | Stage 2A | X | | | | | | | | | |
| 440-159616-1 | UFIW-03D-20160923SD | 440-159616-2 | Water | 2016-09-23 | MSD | Stage 2A | X | | | | | | | | | |
| 440-159616-1 | UFIW-03S-20160923 | I224-01I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159616-1 | UFIW-03D-20160923 | I224-02I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | X |
| 440-164756-1 | E1-1-20161104 | 440-164756-1 | Water | 2016-11-04 | NORM | Stage 2A | X | | X | | | | | | | |
| 440-164756-1 | UFMW-04D-20161104 | 440-164756-10 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFMW-05S-20161104 | 440-164756-11 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFMW-05I-20161104 | 440-164756-12 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-08I-20161104 | 440-164756-15 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-08I-20161104-FD | 440-164756-16 | Water | 2016-11-04 | FD | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-08D-20161104 | 440-164756-17 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-07S-20161104 | 440-164756-18 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-07I-20161104 | 440-164756-19 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-07I-20161104MS | 440-164756-19MS | Water | 2016-11-04 | MS | Stage 2A | X | | | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate by EPA 300.0 | Chlorate, Chlorite by EPA 300.1B | Perchlorate by EPA 314.0 | Total Kjeldahl Nitrogen by EPA 351.2 | Orthophosphate, Orthophosphorus, Phosphorus by EPA 365.3 | Methane by RSK175 | Alkalinity, Bicarbonate, Carbonate, and Hydroxide by SM2320B | Total Hardness by SM2340C | Total Dissolved Solids by SM2540C | Sulfide by SM4500-S2-D |
|--------------|-----------------------------|------------------|--------|-------------|---------|------------------|--|-------------------------------------|-----------------------------|---|---|----------------------|---|------------------------------|--------------------------------------|---------------------------|
| 440-164756-1 | UFIW-07I-20161104MSD | 440-164756-19MSD | Water | 2016-11-04 | MSD | Stage 2A | X | | | | | | | | | |
| 440-164756-1 | E1-2-20161104 | 440-164756-2 | Water | 2016-11-04 | NORM | Stage 2A | X | | X | | | | | | | |
| 440-164756-1 | UFIW-07D-20161104 | 440-164756-20 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-06S-20161104 | 440-164756-21 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-06I-20161104 | 440-164756-22 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-06D-20161104 | 440-164756-23 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-06D-20161104MS | 440-164756-23MS | Water | 2016-11-04 | MS | Stage 2A | X | | | | | | | | | |
| 440-164756-1 | UFIW-06D-20161104MSD | 440-164756-23MSD | Water | 2016-11-04 | MSD | Stage 2A | X | | | | | | | | | |
| 440-164756-1 | UFIW-05S-20161104 | 440-164756-24 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-05I-20161104 | 440-164756-25 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-05D-20161104 | 440-164756-26 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFIW-05D-20161104MS | 440-164756-26MS | Water | 2016-11-04 | MS | Stage 2A | | | | | | | | | | |
| 440-164756-1 | UFIW-05D-20161104MSD | 440-164756-26MSD | Water | 2016-11-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-164756-1 | E1-2-20161104-FD | 440-164756-3 | Water | 2016-11-04 | FD | Stage 2A | X | | X | | | | | | | |
| 440-164756-1 | E1-3-20161104 | 440-164756-4 | Water | 2016-11-04 | NORM | Stage 2A | X | | X | | | | | | | |
| 440-164756-1 | E1-3-20161104MS | 440-164756-4MS | Water | 2016-11-04 | MS | Stage 2A | X | | X | | | | | | | |
| 440-164756-1 | E1-3-20161104MSD | 440-164756-4MSD | Water | 2016-11-04 | MSD | Stage 2A | X | | X | | | | | | | |
| 440-164756-1 | UFMW-06S-20161104 | 440-164756-5 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFMW-06S-20161104MS | 440-164756-5MS | Water | 2016-11-04 | MS | Stage 2A | | | | | | | | | | |
| 440-164756-1 | UFMW-06S-20161104MSD | 440-164756-5MSD | Water | 2016-11-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-164756-1 | UFMW-06D-20161104 | 440-164756-6 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFMW-06D-20161104MS | 440-164756-6MS | Water | 2016-11-04 | MS | Stage 2A | | | | | | | | | | |
| 440-164756-1 | UFMW-06D-20161104MSD | 440-164756-6MSD | Water | 2016-11-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-164756-1 | UFMW-06I-20161104 | 440-164756-7 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFMW-04S-20161104 | 440-164756-8 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-1 | UFMW-04S-20161104MS | 440-164756-8MS | Water | 2016-11-04 | MS | Stage 2A | X | | | | | | | | | |
| 440-164756-1 | UFMW-04S-20161104MSD | 440-164756-8MSD | Water | 2016-11-04 | MSD | Stage 2A | X | | | | | | | | | |
| 440-164756-1 | UFMW-04I-20161104 | 440-164756-9 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-2 | UFMW-05D-20161104 | 440-164756-13 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-164756-2 | UFIW-08-20161104 | 440-164756-14 | Water | 2016-11-04 | NORM | Stage 2A | X | X | X | | | | | | | X |
| 440-167308-1 | CTIW-01D-0.5-20161128 | 440-167308-1 | Solid | 2016-11-28 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167308-1 | CTIW-01D-5.0-20161128 | 440-167308-2 | Solid | 2016-11-28 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167308-1 | CTIW-01D-10.0-20161128 | 440-167308-3 | Solid | 2016-11-28 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167308-1 | CTIW-01D-15.0-20161128 | 440-167308-4 | Solid | 2016-11-28 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167308-1 | CTIW-01D-20.0-20161128 | 440-167308-5 | Solid | 2016-11-28 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167308-1 | CTIW-01D-10.0-20161128-EB | 440-167308-6 | Water | 2016-11-28 | EB | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-25.0-20161129 | 440-167511-1 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-25.0-20161129MS | 440-167511-1 | Solid | 2016-11-29 | MS | Stage 2A | | | | | | | | | | |
| 440-167511-1 | CTIW-01D-25.0-20161129SD | 440-167511-1 | Solid | 2016-11-29 | MSD | Stage 2A | | | | | | | | | | |
| 440-167511-1 | CTIW-01D-GW-36.0-20161129 | 440-167511-10 | Water | 2016-11-29 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-GW-36.0-20161129MS | 440-167511-10 | Water | 2016-11-29 | MS | Stage 2A | | | | | | | | | | |
| 440-167511-1 | CTIW-01D-GW-36.0-20161129SD | 440-167511-10 | Water | 2016-11-29 | MSD | Stage 2A | | | | | | | | | | |
| 440-167511-1 | CTIW-01D-35.0-20161129-EB | 440-167511-11 | Water | 2016-11-29 | EB | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-25.0-20161129-FD | 440-167511-2 | Solid | 2016-11-29 | FD | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-30.0-20161129 | 440-167511-3 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-35.0-20161129 | 440-167511-4 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-40.0-20161129 | 440-167511-5 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-45.0-20161129 | 440-167511-6 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-50.0-20161129 | 440-167511-7 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-55.0-20161129 | 440-167511-8 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-60.0-20161129 | 440-167511-9 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167620-1 | CTMW-03-0.5-20161130 | 440-167620-1 | Solid | 2016-11-30 | NORM | Stage 2A | | | X | | | | | | | |
| 440-167620-1 | CTMW-03-0.5-20161130MS | 440-167620-1 | Solid | 2016-11-30 | MS | Stage 2A | | | X | | | | | | | |
| 440-167620-1 | CTMW-03-0.5-20161130SD | 440-167620-1 | Solid | 2016-11-30 | MSD | Stage 2A | | | X | | | | | | | |
| 440-167620-1 | CTMW-03-GW-36.0-20161130 | 440-167620-10 | Water | 2016-11-30 | NORM | Stage 2A | | | X | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate by EPA 300.0 | Chlorate, Chlorite by EPA 300.1B | Perchlorate by EPA 314.0 | Total Kjeldahl Nitrogen by EPA 351.2 | Orthophosphate, Orthophosphorus, Phosphorus by EPA 365.3 | Methane by RSK175 | Alkalinity, Bicarbonate, Carbonate, and Hydroxide by SM2320B | Total Hardness by SM2340C | Total Dissolved Solids by SM2540C | Sulfide by SM4500-S2-D |
|--------------|----------------------------|-----------------|--------|-------------|---------|------------------|--|-------------------------------------|-----------------------------|---|---|----------------------|---|------------------------------|--------------------------------------|---------------------------|
| 440-167620-1 | CTMW-03-GW-36.0-20161130MS | 440-167620-10 | Water | 2016-11-30 | MS | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-GW-36.0-20161130SD | 440-167620-10 | Water | 2016-11-30 | MSD | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-5.0-20161130 | 440-167620-2 | Solid | 2016-11-30 | NORM | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-5.0-20161130MS | 440-167620-2 | Solid | 2016-11-30 | MS | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-5.0-20161130SD | 440-167620-2 | Solid | 2016-11-30 | MSD | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-10.0-20161130 | 440-167620-3 | Solid | 2016-11-30 | NORM | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-15.0-20161130 | 440-167620-4 | Solid | 2016-11-30 | NORM | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-20.0-20161130 | 440-167620-5 | Solid | 2016-11-30 | NORM | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-30.0-20161130 | 440-167620-6 | Solid | 2016-11-30 | NORM | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-30.0-20161130-FD | 440-167620-7 | Solid | 2016-11-30 | FD | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-35.0-20161130 | 440-167620-8 | Solid | 2016-11-30 | NORM | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-25.0-20161130-EB | 440-167620-9 | Water | 2016-11-30 | EB | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-25.0-20161130-EBMS | 440-167620-9 | Water | 2016-11-30 | MS | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-25.0-20161130-EBSD | 440-167620-9 | Water | 2016-11-30 | MSD | Stage 2A | | | | | | | | | | |
| 440-167620-2 | CTMW-03-25.0-20161130 | 440-167620-11 | Solid | 2016-11-30 | NORM | Stage 2A | | | | | | | | | | |
| 440-167766-1 | CTMW-03-40.0-20161201 | 440-167766-1 | Solid | 2016-12-01 | NORM | Stage 2A | | | | | | | | | | |
| 440-167766-1 | CTIW-01S-21.0-20161201 | 440-167766-11 | Solid | 2016-12-01 | NORM | Stage 2A | | | | | | | | | | |
| 440-167766-1 | CTIW-01S-21.0-20161201-FD | 440-167766-12 | Solid | 2016-12-01 | FD | Stage 2A | | | | | | | | | | |
| 440-167766-1 | CTMW-03-60.0-20161201-EB | 440-167766-14 | Water | 2016-12-01 | EB | Stage 2A | | | | | | | | | | |
| 440-167766-1 | CTMW-03-45.0-20161201 | 440-167766-2 | Solid | 2016-12-01 | NORM | Stage 2A | | | | | | | | | | |
| 440-167766-1 | CTMW-03-50.0-20161201 | 440-167766-3 | Solid | 2016-12-01 | NORM | Stage 2A | | | | | | | | | | |
| 440-167766-1 | CTMW-03-55.0-20161201 | 440-167766-4 | Solid | 2016-12-01 | NORM | Stage 2A | | | | | | | | | | |
| 440-167766-1 | CTMW-03-55.0-20161201MS | 440-167766-4 | Solid | 2016-12-01 | MS | Stage 2A | | | | | | | | | | |
| 440-167766-1 | CTMW-03-55.0-20161201MS | 440-167766-4MS | Solid | 2016-12-01 | MS | Stage 2A | | | | | | | | | | |
| 440-167766-1 | CTMW-03-55.0-20161201SD | 440-167766-4MSD | Solid | 2016-12-01 | MSD | Stage 2A | | | | | | | | | | |
| 440-167766-2 | CTMW-03-60.0-20161201 | 440-167766-13 | Solid | 2016-12-01 | NORM | Stage 2A | | | | | | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206 | 440-168362-1 | Water | 2016-12-06 | NORM | Stage 2A | | | | | | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206MS | 440-168362-1 | Water | 2016-12-06 | MS | Stage 2A | | | | | | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206SD | 440-168362-1 | Water | 2016-12-06 | MSD | Stage 2A | | | | | | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206-FD | 440-168362-2 | Water | 2016-12-06 | FD | Stage 2A | | | | | | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206-EB | 440-168362-3 | Water | 2016-12-06 | EB | Stage 2A | | | | | | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206-EBMS | 440-168362-3 | Water | 2016-12-06 | MS | Stage 2A | | | | | | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206-EBSD | 440-168362-3 | Water | 2016-12-06 | MSD | Stage 2A | | | | | | | | | | |
| 440-168362-1 | CTIW-01S-GW-20161206 | 440-168362-4 | Water | 2016-12-06 | NORM | Stage 2A | | | | | | | | | | |
| 440-168532-1 | CTMW-03S-GW-20161207 | 440-168532-1 | Water | 2016-12-07 | NORM | Stage 2A | | | | | | | | | | |
| 440-168532-1 | CTMW-03D-GW-20161207 | 440-168532-2 | Water | 2016-12-07 | NORM | Stage 2A | | | | | | | | | | |
| 440-168532-1 | CTMW-03D-GW-20161207MS | 440-168532-2 | Water | 2016-12-07 | MS | Stage 2A | | | | | | | | | | |
| 440-168532-1 | CTMW-03D-GW-20161207SD | 440-168532-2 | Water | 2016-12-07 | MSD | Stage 2A | | | | | | | | | | |
| 440-168532-1 | CTMW-03D-GW-20161207-EB | 440-168532-3 | Water | 2016-12-07 | EB | Stage 2A | | | | | | | | | | |
| 440-174831-1 | UFMW-01S-20170126 | 440-174831-1 | Water | 2017-01-26 | NORM | Stage 2A | | | | | | | | | | |
| 440-174831-1 | E2-3-20170126 | 440-174831-10 | Water | 2017-01-26 | NORM | Stage 2A | | | | | | | | | | |
| 440-174831-1 | 20170126-EB-VC | 440-174831-11 | Water | 2017-01-26 | EB | Stage 2A | | | | | | | | | | |
| 440-174831-1 | 20170126-FB | 440-174831-12 | Water | 2017-01-26 | FB | Stage 2A | | | | | | | | | | |
| 440-174831-1 | E2-1-20170126 | 440-174831-13 | Water | 2017-01-26 | NORM | Stage 2A | | | | | | | | | | |
| 440-174831-1 | E2-1-20170126MS | 440-174831-13 | Water | 2017-01-26 | MS | Stage 2A | | | | | | | | | | |
| 440-174831-1 | E2-1-20170126SD | 440-174831-13 | Water | 2017-01-26 | MSD | Stage 2A | | | | | | | | | | |
| 440-174831-1 | E2-2-20170126-EB | 440-174831-14 | Water | 2017-01-26 | EB | Stage 2A | | | | | | | | | | |
| 440-174831-1 | UFMW-02S-20170126 | 440-174831-2 | Water | 2017-01-26 | NORM | Stage 2A | | | | | | | | | | |
| 440-174831-1 | UFIW-01S-20170126 | 440-174831-3 | Water | 2017-01-26 | NORM | Stage 2A | | | | | | | | | | |
| 440-174831-1 | UFIW-02S-20170126 | 440-174831-4 | Water | 2017-01-26 | NORM | Stage 2A | | | | | | | | | | |
| 440-174831-1 | UFIW-03S-20170126 | 440-174831-5 | Water | 2017-01-26 | NORM | Stage 2A | | | | | | | | | | |
| 440-174831-1 | UFIW-04S-20170126 | 440-174831-6 | Water | 2017-01-26 | NORM | Stage 2A | | | | | | | | | | |
| 440-174831-1 | E2-5-20170126 | 440-174831-7 | Water | 2017-01-26 | NORM | Stage 2A | | | | | | | | | | |
| 440-174831-1 | E2-5-20170126-DUP | 440-174831-8 | Water | 2017-01-26 | FD | Stage 2A | | | | | | | | | | |
| 440-174831-1 | E2-5-20170126-DUPMS | 440-174831-8 | Water | 2017-01-26 | MS | Stage 2A | | | | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate by EPA 300.0 | Chlorate, Chlorite by EPA 300.1B | Perchlorate by EPA 314.0 | Total Kjeldahl Nitrogen by EPA 351.2 | Orthophosphate, Orthophosphorus, Phosphorus by EPA 365.3 | Methane by RSK175 | Alkalinity, Bicarbonate, Carbonate, and Hydroxide by SM2320B | Total Hardness by SM2340C | Total Dissolved Solids by SM2540C | Sulfide by SM4500-S2-D |
|--------------|---------------------------|------------------|--------|-------------|---------|------------------|--|-------------------------------------|-----------------------------|---|---|----------------------|---|------------------------------|--------------------------------------|---------------------------|
| 440-174831-1 | E2-5-20170126-DUPSD | 440-174831-8 | Water | 2017-01-26 | MSD | Stage 2A | | | | | | | | | | |
| 440-174831-1 | E2-4-20170126 | 440-174831-9 | Water | 2017-01-26 | NORM | Stage 2A | | | X | | | | | | | |
| 440-174981-1 | UFIW-05S-20170127 | 440-174981-1 | Water | 2017-01-27 | NORM | Stage 2A | | | X | | | | | | | |
| 440-174981-1 | UFIW-06S-20170127 | 440-174981-2 | Water | 2017-01-27 | NORM | Stage 2A | | | X | | | | | | | |
| 440-174981-1 | UFIW-07S-20170127 | 440-174981-3 | Water | 2017-01-27 | NORM | Stage 2A | | | X | | | | | | | |
| 440-174981-1 | UFIW-08S-20170127 | 440-174981-4 | Water | 2017-01-27 | NORM | Stage 2A | | | X | | | | | | | |
| 440-174981-1 | UFMW-04S-20170127 | 440-174981-5 | Water | 2017-01-27 | NORM | Stage 2A | | | X | | | | | | | |
| 440-174981-1 | UFMW-04S-20170127-DUP | 440-174981-6 | Water | 2017-01-27 | FD | Stage 2A | | | X | | | | | | | |
| 440-174981-1 | UFMW-06S-20170127 | 440-174981-7 | Water | 2017-01-27 | NORM | Stage 2A | | | X | | | | | | | |
| 440-174981-1 | 20170127-FB | 440-174981-8 | Water | 2017-01-27 | FB | Stage 2A | | | X | | | | | | | |
| 440-174984-1 | UFMW-05S-20170127 | 440-174984-1 | Water | 2017-01-27 | NORM | Stage 2A | | | X | | | | | | | |
| 440-180057-1 | CTMW-01D-0.5-20170320 | 440-180057-1 | Solid | 2017-03-20 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180057-1 | CTMW-01D-0.5-20170320MS | 440-180057-1MS | Solid | 2017-03-20 | MS | Stage 2A | | | X | | | | | | | |
| 440-180057-1 | CTMW-01D-0.5-20170320MSD | 440-180057-1MSD | Solid | 2017-03-20 | MSD | Stage 2A | | | X | | | | | | | |
| 440-180057-1 | CTIW-02D-0.5-20170320 | 440-180057-2 | Solid | 2017-03-20 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180057-1 | CTMW-02D-0.5-20170320 | 440-180057-3 | Solid | 2017-03-20 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180057-1 | CTMW-02D-0.5-20170320MS | 440-180057-3MS | Solid | 2017-03-20 | MS | Stage 2A | | | | | | | | | | |
| 440-180057-1 | CTMW-02D-0.5-20170320MSD | 440-180057-3MSD | Solid | 2017-03-20 | MSD | Stage 2A | | | | | | | | | | |
| 440-180057-1 | CTIW-03D-0.5-20170320 | 440-180057-4 | Solid | 2017-03-20 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180057-1 | CTIW-03D-0.5-20170320-EB | 440-180057-5 | Water | 2017-03-20 | EB | Stage 2A | | X | X | | | | | | | |
| 440-180057-1 | CTMW-04D-0.5-20170320 | 440-180057-6 | Solid | 2017-03-20 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180057-1 | CTMW-04D-0.5-20170320MS | 440-180057-6MS | Solid | 2017-03-20 | MS | Stage 2A | | X | | | | | | | | |
| 440-180057-1 | CTMW-04D-0.5-20170320MSD | 440-180057-6MSD | Solid | 2017-03-20 | MSD | Stage 2A | | X | | | | | | | | |
| 440-180166-1 | CTMW-01D-5.0-20170321 | 440-180166-1 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-50.0-20170321 | 440-180166-10 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-55.0-20170321 | 440-180166-11 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-55.0-20170321-FD | 440-180166-12 | Solid | 2017-03-21 | FD | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-60.0-20170321 | 440-180166-13 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-60.0-20170321MS | 440-180166-13MS | Solid | 2017-03-21 | MS | Stage 2A | | X | | | | | | | | |
| 440-180166-1 | CTMW-01D-60.0-20170321MSD | 440-180166-13MSD | Solid | 2017-03-21 | MSD | Stage 2A | | X | | | | | | | | |
| 440-180166-1 | CTMW-01D-60.0-20170321-EB | 440-180166-14 | Water | 2017-03-21 | EB | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-10.0-20170321 | 440-180166-2 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-15.0-20170321 | 440-180166-3 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-20.0-20170321 | 440-180166-4 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-25.0-20170321 | 440-180166-5 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-30.0-20170321 | 440-180166-6 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-35.0-20170321 | 440-180166-7 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-40.0-20170321 | 440-180166-8 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180166-1 | CTMW-01D-45.0-20170321 | 440-180166-9 | Solid | 2017-03-21 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180292-1 | CTMW-04D-55.0-20170322 | 440-180292-1 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180292-1 | CTMW-04D60.020170322EB | 440-180292-2 | Water | 2017-03-22 | EB | Stage 2A | | X | X | | | | | | | |
| 440-180292-1 | CTMW-04D60.020170322EBMS | 440-180292-2MS | Water | 2017-03-22 | MS | Stage 2A | | | | | | | | | | |
| 440-180292-1 | CTMW-04D60.020170322EBMSD | 440-180292-2MSD | Water | 2017-03-22 | MSD | Stage 2A | | | | | | | | | | |
| 440-180320-1 | CTMW-04D-5.0-20170322 | 440-180320-1 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180320-1 | CTMW-04D-45.0-20170322 | 440-180320-10 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180320-1 | CTMW-04D-50.0-20170322 | 440-180320-11 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180320-1 | CTMW-04D-5.0-20170322MS | 440-180320-1MS | Solid | 2017-03-22 | MS | Stage 2A | | X | X | | | | | | | |
| 440-180320-1 | CTMW-04D-5.0-20170322MSD | 440-180320-1MSD | Solid | 2017-03-22 | MSD | Stage 2A | | X | X | | | | | | | |
| 440-180320-1 | CTMW-04D-10.0-20170322 | 440-180320-2 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180320-1 | CTMW-04D-15.0-20170322 | 440-180320-3 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180320-1 | CTMW-04D-20.0-20170322 | 440-180320-4 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180320-1 | CTMW-04D-25.0-20170322 | 440-180320-5 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180320-1 | CTMW-04D-25.0-20170322-FD | 440-180320-6 | Solid | 2017-03-22 | FD | Stage 2A | | X | X | | | | | | | |
| 440-180320-1 | CTMW-04D-30.0-20170322 | 440-180320-7 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180320-1 | CTMW-04D-35.0-20170322 | 440-180320-8 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate | Chlorate, Chlorite | Perchlorate | Total Kjeldahl Nitrogen | Orthophosphate, Orthophosphorus, Phosphorus | Methane | Alkalinity, Bicarbonate, Carbonate, and Hydroxide | Total Hardness | Total Dissolved Solids | Sulfide |
|--------------|---------------------------|------------------|--------|-------------|---------|------------------|----------------------------|--------------------|--------------|-------------------------|---|-----------|---|----------------|------------------------|----------------|
| | | | | | | | by EPA 300.0 | by EPA 300.1B | by EPA 314.0 | by EPA 351.2 | by EPA 365.3 | by RSK175 | by SM2320B | by SM2340C | by SM2540C | by SM4500-S2-D |
| 440-180320-1 | CTMW-04D-40.0-20170322 | 440-180320-9 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180320-2 | CTMW-04D-40.0-20170322 | 440-180320-9 | Solid | 2017-03-22 | NORM | Stage 2A | X (soluble) | | | | | | X (soluble) | | X (soluble) | |
| 440-180320-2 | CTMW-04D-40.0-20170322MS | 440-180320-9MS | Water | 2017-03-22 | MS | Stage 2A | X | | | | | | | | | |
| 440-180320-2 | CTMW-04D-40.0-20170322MSD | 440-180320-9MSD | Water | 2017-03-22 | MSD | Stage 2A | X | | | | | | | | | |
| 440-180327-1 | CTMW-04D-60.0-20170322 | 440-180327-1 | Solid | 2017-03-22 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180327-1 | CTMW-04D-60.0-20170322MS | 440-180327-1MS | Solid | 2017-03-22 | MS | Stage 2A | | X | X | | | | | | | |
| 440-180327-1 | CTMW-04D-60.0-20170322MSD | 440-180327-1MSD | Solid | 2017-03-22 | MSD | Stage 2A | | X | X | | | | | | | |
| 440-180434-1 | CTMW-02D-60.0-20170323-EB | 440-180434-1 | Water | 2017-03-23 | EB | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-5.0-20170323 | 440-180521-1 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-50.0-20170323 | 440-180521-10 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-55.0-20170323 | 440-180521-11 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-60.0-20170323 | 440-180521-12 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-60.0-20170323MS | 440-180521-12MS | Solid | 2017-03-23 | MS | Stage 2A | | X | | | | | | | | |
| 440-180521-1 | CTMW-02D-60.0-20170323MSD | 440-180521-12MSD | Solid | 2017-03-23 | MSD | Stage 2A | | X | | | | | | | | |
| 440-180521-1 | CTMW-02D-5.0-20170323MS | 440-180521-1MS | Solid | 2017-03-23 | MS | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-5.0-20170323MSD | 440-180521-1MSD | Solid | 2017-03-23 | MSD | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-10.0-20170323 | 440-180521-2 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-10.0-20170323-FD | 440-180521-3 | Solid | 2017-03-23 | FD | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-15.0-20170323 | 440-180521-4 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-20.0-20170323 | 440-180521-5 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-25.0-20170323 | 440-180521-6 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-30.0-20170323 | 440-180521-7 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-40.0-20170323 | 440-180521-8 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180521-1 | CTMW-02D-45.0-20170323 | 440-180521-9 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180521-2 | CTMW-02D-40.0-20170323 | 440-180521-8 | Solid | 2017-03-23 | NORM | Stage 2A | X (soluble) | | | | | | X (soluble) | | X (soluble) | |
| 440-180522-1 | CTMW-02D-35.0-20170323 | 440-180522-1 | Solid | 2017-03-23 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-10.0-20170324 | 440-180564-1 | Solid | 2017-03-24 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-50.0-20170324 | 440-180564-10 | Solid | 2017-03-24 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-50.0-20170324-EB | 440-180564-11 | Water | 2017-03-24 | EB | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-10.0-20170324MS | 440-180564-1MS | Solid | 2017-03-24 | MS | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-10.0-20170324MSD | 440-180564-1MSD | Solid | 2017-03-24 | MSD | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-15.0-20170324-FD | 440-180564-2 | Solid | 2017-03-24 | FD | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-15.0-20170324 | 440-180564-3 | Solid | 2017-03-24 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-20.0-20170324 | 440-180564-4 | Solid | 2017-03-24 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-25.0-20170324 | 440-180564-5 | Solid | 2017-03-24 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-30.0-20170324 | 440-180564-6 | Solid | 2017-03-24 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-35.0-20170324 | 440-180564-7 | Solid | 2017-03-24 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-40.0-20170324 | 440-180564-8 | Solid | 2017-03-24 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180564-1 | CTIW-02D-45.0-20170324 | 440-180564-9 | Solid | 2017-03-24 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180590-1 | CTIW-02D-5.0-20170324 | 440-180590-1 | Solid | 2017-03-24 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-02S-22.0-20170327 | 440-180694-1 | Solid | 2017-03-27 | NORM | Stage 2A | X (soluble) | X | X | | | | X (soluble) | | X (soluble) | |
| 440-180694-1 | CTIW-03D-40.0-20170327 | 440-180694-10 | Solid | 2017-03-27 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-03D-41.5-20170327 | 440-180694-11 | Solid | 2017-03-27 | NORM | Stage 2A | X (soluble) | X | X | | | | X (soluble) | | X (soluble) | |
| 440-180694-1 | CTIW-03D-45.0-20170327 | 440-180694-12 | Solid | 2017-03-27 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-03D-50.0-20170327 | 440-180694-13 | Solid | 2017-03-27 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-03S-22.0-20170327 | 440-180694-14 | Solid | 2017-03-27 | NORM | Stage 2A | X (soluble) | X | X | | | | X (soluble) | | X (soluble) | |
| 440-180694-1 | CTIW-03S-22.0-20170327MS | 440-180694-14MS | Solid | 2017-03-27 | MS | Stage 2A | | | | | | | | | | |
| 440-180694-1 | CTIW-03S-22.0-20170327MSD | 440-180694-14MSD | Solid | 2017-03-27 | MSD | Stage 2A | | | | | | | | | | |
| 440-180694-1 | CTIW-03S-22.0-20170327-EB | 440-180694-15 | Water | 2017-03-27 | EB | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-02S-22.0-20170327MS | 440-180694-1MS | Solid | 2017-03-27 | MS | Stage 2A | | | X | | | | | | | |
| 440-180694-1 | CTIW-02S-22.0-20170327MSD | 440-180694-1MSD | Solid | 2017-03-27 | MSD | Stage 2A | | | X | | | | | | | |
| 440-180694-1 | CTIW-03D-5.0-20170327 | 440-180694-2 | Solid | 2017-03-27 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-03D-5.0-20170327MS | 440-180694-2MS | Solid | 2017-03-27 | MS | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-03D-5.0-20170327MSD | 440-180694-2MSD | Solid | 2017-03-27 | MSD | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-03D-10.0-20170327 | 440-180694-3 | Solid | 2017-03-27 | NORM | Stage 2A | | X | X | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate by EPA 300.0 | Chlorate, Chlorite by EPA 300.1B | Perchlorate by EPA 314.0 | Total Kjeldahl Nitrogen by EPA 351.2 | Orthophosphate, Orthophosphorus, Phosphorus by EPA 365.3 | Methane by RSK175 | Alkalinity, Bicarbonate, Carbonate, and Hydroxide by SM2320B | Total Hardness by SM2340C | Total Dissolved Solids by SM2540C | Sulfide by SM4500-S2-D |
|--------------|---------------------------|-----------------|--------|-------------|---------|------------------|--|-------------------------------------|-----------------------------|---|---|----------------------|---|------------------------------|--------------------------------------|---------------------------|
| 440-180694-1 | CTIW-03D-10.0-20170327-FD | 440-180694-4 | Solid | 2017-03-27 | FD | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-03D-20.0-20170327 | 440-180694-5 | Solid | 2017-03-27 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-03D-25.0-20170327 | 440-180694-6 | Solid | 2017-03-27 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-03D-25.0-20170327-FD | 440-180694-7 | Solid | 2017-03-27 | FD | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-03D-30.0-20170327 | 440-180694-8 | Solid | 2017-03-27 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180694-1 | CTIW-03D-35.0-20170327 | 440-180694-9 | Solid | 2017-03-27 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-180695-1 | CTIW-03D-15.0-20170327 | 440-180695-1 | Solid | 2017-03-27 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-181198-1 | CTIW-02S-20170403 | 440-181198-1 | Water | 2017-04-03 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181198-1 | CTIW-02S-20170403MS | 440-181198-1MS | Water | 2017-04-03 | MS | Stage 2A | | | | | X | | | | | |
| 440-181198-1 | CTIW-02S-20170403MS | 440-181198-1MS | Water | 2017-04-03 | MS | Stage 2A | | | | | | | | | | |
| 440-181198-1 | CTIW-02S-20170403MSD | 440-181198-1MSD | Water | 2017-04-03 | MSD | Stage 2A | | | | | X | | | | | |
| 440-181198-1 | CTIW-02S-20170403MSD | 440-181198-1MSD | Water | 2017-04-03 | MSD | Stage 2A | | | | | | | | | | |
| 440-181198-1 | CTMW-01D-20170403 | 440-181198-2 | Water | 2017-04-03 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181198-1 | CTMW-01D-20170403MS | 440-181198-2MS | Water | 2017-04-03 | MS | Stage 2A | X | | | | | | | | | |
| 440-181198-1 | CTMW-01D-20170403MSD | 440-181198-2MSD | Water | 2017-04-03 | MSD | Stage 2A | X | | | | | | | | | |
| 440-181198-1 | CTIW-02S-20170403-TB | 440-181198-3 | Water | 2017-04-03 | TB | Stage 2A | | | | | | | | | | |
| 440-181291-1 | CTMW-01S-20170404 | 440-181291-1 | Water | 2017-04-04 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181291-1 | CTMW-01S-20170404MS | 440-181291-1MS | Water | 2017-04-04 | MS | Stage 2A | | | | | X | | | | | |
| 440-181291-1 | CTMW-01S-20170404MSD | 440-181291-1MSD | Water | 2017-04-04 | MSD | Stage 2A | | | | | X | | | | | |
| 440-181291-1 | CTMW-02D-20170404 | 440-181291-2 | Water | 2017-04-04 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181291-1 | CTMW-02D-20170404MS | 440-181291-2MS | Water | 2017-04-04 | MS | Stage 2A | | | | | | | | | | |
| 440-181291-1 | CTMW-02D-20170404MS | 440-181291-2MS | Water | 2017-04-04 | MS | Stage 2A | | | | | | | | | | |
| 440-181291-1 | CTMW-02D-20170404MSD | 440-181291-2MSD | Water | 2017-04-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-181291-1 | CTMW-02D-20170404MSD | 440-181291-2MSD | Water | 2017-04-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-181291-1 | CTIW-02D-20170404 | 440-181291-3 | Water | 2017-04-04 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181291-1 | CTIW-03S-20170404 | 440-181291-4 | Water | 2017-04-04 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181291-1 | CTIW-03S-20170404MS | 440-181291-4MS | Water | 2017-04-04 | MS | Stage 2A | | | | | | | | | | |
| 440-181291-1 | CTIW-03S-20170404MSD | 440-181291-4MSD | Water | 2017-04-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-181291-1 | CTIW-03D-20170404 | 440-181291-5 | Water | 2017-04-04 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181291-1 | CTMW-02D-20170404-FD | 440-181291-6 | Water | 2017-04-04 | FD | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181291-1 | CTMW-02D-20170404-FDMS | 440-181291-6MS | Water | 2017-04-04 | MS | Stage 2A | X | | | | | | | | | |
| 440-181291-1 | CTMW-02D-20170404-FDMSD | 440-181291-6MSD | Water | 2017-04-04 | MSD | Stage 2A | X | | | | | | | | | |
| 440-181417-1 | CTMW-02S-20170405 | 440-181417-1 | Water | 2017-04-05 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181417-1 | CTMW-02S-20170405MS | 440-181417-1MS | Water | 2017-04-05 | MS | Stage 2A | | | | | | | | | | |
| 440-181417-1 | CTMW-02S-20170405MSD | 440-181417-1MSD | Water | 2017-04-05 | MSD | Stage 2A | | | | | | | | | | |
| 440-181417-1 | CTMW-03S-20170405 | 440-181417-2 | Water | 2017-04-05 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181417-1 | CTMW-03S-20170405MS | 440-181417-2MS | Water | 2017-04-05 | MS | Stage 2A | | | | | | | | | | |
| 440-181417-1 | CTMW-03S-20170405MSD | 440-181417-2MSD | Water | 2017-04-05 | MSD | Stage 2A | | | | | | | | | | |
| 440-181417-1 | CTMW-04S-20170405 | 440-181417-3 | Water | 2017-04-05 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181417-1 | CTMW-04D-20170405 | 440-181417-4 | Water | 2017-04-05 | NORM | Stage 2A | X | | | | | | | | | |
| 440-181417-1 | CTMW-04D-20170405MS | 440-181417-4MS | Water | 2017-04-05 | MS | Stage 2A | X | | | | | | | | | |
| 440-181417-1 | CTMW-04D-20170405MSD | 440-181417-4MSD | Water | 2017-04-05 | MSD | Stage 2A | X | | | | | | | | | |
| 440-181417-1 | CTIW-01S-20170405 | 440-181417-5 | Water | 2017-04-05 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181417-1 | CTIW-01S-20170405MS | 440-181417-5MS | Water | 2017-04-05 | MS | Stage 2A | X | | | | | | | | | |
| 440-181417-1 | CTIW-01S-20170405MSD | 440-181417-5MSD | Water | 2017-04-05 | MSD | Stage 2A | X | | | | | | | | | |
| 440-181417-1 | CTMW-02S-20170405-TB | 440-181417-6 | Water | 2017-04-05 | TB | Stage 2A | | | | | | | | | | |
| 440-181550-1 | CTIW-01D-20170406 | 440-181550-1 | Water | 2017-04-06 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181550-1 | CTIW-01D-20170406MS | 440-181550-1MS | Water | 2017-04-06 | MS | Stage 2A | | | | | X | | | | | |
| 440-181550-1 | CTIW-01D-20170406MSD | 440-181550-1MSD | Water | 2017-04-06 | MSD | Stage 2A | | | | | X | | | | | |
| 440-181550-1 | CTMW-03D-20170406 | 440-181550-2 | Water | 2017-04-06 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-181550-1 | CTMW-03D-20170406MS | 440-181550-2MS | Water | 2017-04-06 | MS | Stage 2A | | | | | | | | | | |
| 440-181550-1 | CTMW-03D-20170406MSD | 440-181550-2MSD | Water | 2017-04-06 | MSD | Stage 2A | | | | | | | | | | |
| 440-181550-1 | CTIW-01D-20170406-TB | 440-181550-3 | Water | 2017-04-06 | TB | Stage 2A | | | | | | | | | | |
| 440-181552-1 | UFMW-04I-20170406 | 440-181552-1 | Water | 2017-04-06 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181552-1 | UFMW-04I-20170406MS | 440-181552-1MS | Water | 2017-04-06 | MS | Stage 2A | | | | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate | Chlorate, Chlorite | Perchlorate | Total Kjeldahl Nitrogen | Orthophosphate, Orthophosphorus, Phosphorus | Methane | Alkalinity, Bicarbonate, Carbonate, and Hydroxide | Total Hardness | Total Dissolved Solids | Sulfide |
|--------------|------------------------|-----------------|--------|-------------|---------|------------------|----------------------------|--------------------|--------------|-------------------------|---|-----------|---|----------------|------------------------|----------------|
| | | | | | | | by EPA 300.0 | by EPA 300.1B | by EPA 314.0 | by EPA 351.2 | by EPA 365.3 | by RSK175 | by SM2320B | by SM2340C | by SM2540C | by SM4500-S2-D |
| 440-181552-1 | UFMW-04I-20170406MSD | 440-181552-1MSD | Water | 2017-04-06 | MSD | Stage 2A | | | | | | | | | | |
| 440-181652-1 | UFMW-04S-20170407 | 440-181652-1 | Water | 2017-04-07 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181652-1 | UFMW-04S-20170407MS | 440-181652-1MS | Water | 2017-04-07 | MS | Stage 2A | | | | | | | | | | |
| 440-181652-1 | UFMW-04S-20170407MSD | 440-181652-1MSD | Water | 2017-04-07 | MSD | Stage 2A | | | | | | | | | | |
| 440-181652-1 | UFMW-05S-20170407 | 440-181652-2 | Water | 2017-04-07 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181652-1 | UFMW-05S-20170407MS | 440-181652-2MS | Water | 2017-04-07 | MS | Stage 2A | | | | | | | | | | |
| 440-181652-1 | UFMW-05S-20170407MSD | 440-181652-2MSD | Water | 2017-04-07 | MSD | Stage 2A | | | | | | | | | | |
| 440-181652-1 | UFMW-05I-20170407 | 440-181652-3 | Water | 2017-04-07 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181739-1 | UFMW-06S-20170410 | 440-181739-1 | Water | 2017-04-10 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181739-1 | UFMW-06I-20170410 | 440-181739-2 | Water | 2017-04-10 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181739-1 | UFMW-06I-20170410-FD | 440-181739-3 | Water | 2017-04-10 | FD | Stage 2A | X | X | X | | | | | | X | X |
| 440-181739-1 | UFIW-07S-20170410 | 440-181739-4 | Water | 2017-04-10 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181739-1 | UFIW-05S-20170410 | 440-181739-5 | Water | 2017-04-10 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181739-1 | UFIW-05S-20170410MS | 440-181739-5MS | Water | 2017-04-10 | MS | Stage 2A | | | | | | | | | | |
| 440-181739-1 | UFIW-05S-20170410MSD | 440-181739-5MSD | Water | 2017-04-10 | MSD | Stage 2A | | | | | | | | | | |
| 440-181739-1 | UFIW-05I-20170410 | 440-181739-6 | Water | 2017-04-10 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181739-1 | UFIW-06S-20170410 | 440-181739-7 | Water | 2017-04-10 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181739-1 | UFIW-06S-20170410MS | 440-181739-7MS | Water | 2017-04-10 | MS | Stage 2A | | | | | | | | | | |
| 440-181739-1 | UFIW-06S-20170410MSD | 440-181739-7MSD | Water | 2017-04-10 | MSD | Stage 2A | | | | | | | | | | |
| 440-181742-1 | UFIW-08S-20170410 | 440-181742-1 | Water | 2017-04-10 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181742-1 | UFIW-08S-20170410MS | 440-181742-1MS | Water | 2017-04-10 | MS | Stage 2A | | | | | | | | | | |
| 440-181742-1 | UFIW-08S-20170410MSD | 440-181742-1MSD | Water | 2017-04-10 | MSD | Stage 2A | | | | | | | | | | |
| 440-181867-1 | UFMW-03I-20170411 | 440-181867-1 | Water | 2017-04-11 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181867-1 | UFMW-03I-20170411MS | 440-181867-1MS | Water | 2017-04-11 | MS | Stage 2A | X | X | X | | | | | | | X |
| 440-181867-1 | UFMW-03I-20170411MSD | 440-181867-1MSD | Water | 2017-04-11 | MSD | Stage 2A | X | X | X | | | | | | | X |
| 440-181867-1 | UFMW-02I-20170411 | 440-181867-2 | Water | 2017-04-11 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181867-1 | UFMW-01I-20170411 | 440-181867-3 | Water | 2017-04-11 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181867-1 | UFIW-01S-20170411 | 440-181867-4 | Water | 2017-04-11 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181867-1 | UFIW-01S-20170411MS | 440-181867-4MS | Water | 2017-04-11 | MS | Stage 2A | | | | | | | | | | |
| 440-181867-1 | UFIW-01S-20170411MSD | 440-181867-4MSD | Water | 2017-04-11 | MSD | Stage 2A | | | | | | | | | | |
| 440-181867-1 | UFIW-06I-20170411 | 440-181867-5 | Water | 2017-04-11 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181867-1 | UFIW-07I-20170411 | 440-181867-6 | Water | 2017-04-11 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181867-1 | UFIW-08I-20170411 | 440-181867-7 | Water | 2017-04-11 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181998-1 | UFIW-03I-20170412 | 440-181998-1 | Water | 2017-04-12 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181998-1 | UFIW-03I-20170412MS | 440-181998-1MS | Water | 2017-04-12 | MS | Stage 2A | | | | | | | | | | |
| 440-181998-1 | UFIW-03I-20170412MSD | 440-181998-1MSD | Water | 2017-04-12 | MSD | Stage 2A | | | | | | | | | | |
| 440-181998-1 | UFMW-02S-20170412 | 440-181998-2 | Water | 2017-04-12 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181998-1 | UFIW-04S-20170412 | 440-181998-3 | Water | 2017-04-12 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181998-1 | UFIW-03S-20170412 | 440-181998-4 | Water | 2017-04-12 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181998-1 | UFIW-02I-20170412 | 440-181998-5 | Water | 2017-04-12 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181998-1 | UFIW-01I-20170412 | 440-181998-6 | Water | 2017-04-12 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181998-1 | UFIW-02S-20170412 | 440-181998-7 | Water | 2017-04-12 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181998-1 | UFIW-02S-20170412-FD | 440-181998-8 | Water | 2017-04-12 | FD | Stage 2A | X | X | X | | | | | | X | X |
| 440-181999-1 | UFIW-04I-20170412 | 440-181999-1 | Water | 2017-04-12 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-181999-1 | UFIW-04I-20170412MS | 440-181999-1MS | Water | 2017-04-12 | MS | Stage 2A | | | | | | | | | | |
| 440-181999-1 | UFIW-04I-20170412MSD | 440-181999-1MSD | Water | 2017-04-12 | MSD | Stage 2A | | | | | | | | | | |
| 440-183557-1 | CTMW-01S-20170503 | 440-183557-1 | Water | 2017-05-03 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-183557-1 | CTMW-01S-20170503MS | 440-183557-1MS | Water | 2017-05-03 | MS | Stage 2A | | | | | | | | | | |
| 440-183557-1 | CTMW-01S-20170503MSD | 440-183557-1MSD | Water | 2017-05-03 | MSD | Stage 2A | | | | | | | | | | |
| 440-183557-1 | CTMW-01D-20170503 | 440-183557-2 | Water | 2017-05-03 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-183557-1 | CTMW-01D-20170503MS | 440-183557-2MS | Water | 2017-05-03 | MS | Stage 2A | | | | | | | | | | |
| 440-183557-1 | CTMW-01D-20170503MSD | 440-183557-2MSD | Water | 2017-05-03 | MSD | Stage 2A | | | | | | | | | | |
| 440-183557-1 | CTMW-02D-20170503 | 440-183557-3 | Water | 2017-05-03 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-183557-1 | CTMW-02D-20170503-FD | 440-183557-4 | Water | 2017-05-03 | FD | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-183557-1 | CTMW-02D-20170503-FDMS | 440-183557-4MS | Water | 2017-05-03 | MS | Stage 2A | | | | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate by EPA 300.0 | Chlorate, Chlorite by EPA 300.1B | Perchlorate by EPA 314.0 | Total Kjeldahl Nitrogen by EPA 351.2 | Orthophosphate, Orthophosphorus, Phosphorus by EPA 365.3 | Methane by RSK175 | Alkalinity, Bicarbonate, Carbonate, and Hydroxide by SM2320B | Total Hardness by SM2340C | Total Dissolved Solids by SM2540C | Sulfide by SM4500-S2-D |
|--------------|-------------------------|-----------------|--------|-------------|---------|------------------|--|-------------------------------------|-----------------------------|---|---|----------------------|---|------------------------------|--------------------------------------|---------------------------|
| 440-183557-1 | CTMW-02D-20170503-FDMSD | 440-183557-4MSD | Water | 2017-05-03 | MSD | Stage 2A | | | | | | | | | | |
| 440-183557-1 | CTMW-01S-20170503-TB | 440-183557-5 | Water | 2017-05-03 | TB | Stage 2A | | | | | | | | | | |
| 440-183688-1 | CTMW-04D-20170504 | 440-183688-1 | Water | 2017-05-04 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-183688-1 | CTMW-04D-20170504MS | 440-183688-1MS | Water | 2017-05-04 | MS | Stage 2A | | | | | | | | | | |
| 440-183688-1 | CTMW-04D-20170504MSD | 440-183688-1MSD | Water | 2017-05-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-183689-1 | CTMW-04S-20170504 | 440-183689-1 | Water | 2017-05-04 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-183689-1 | CTMW-02S-20170504 | 440-183689-2 | Water | 2017-05-04 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-183689-1 | CTMW-02S-20170504MS | 440-183689-2MS | Water | 2017-05-04 | MS | Stage 2A | | | | | X | | | | | |
| 440-183689-1 | CTMW-02S-20170504MSD | 440-183689-2MSD | Water | 2017-05-04 | MSD | Stage 2A | | | | | X | | | | | |
| 440-183689-1 | CTMW-04S-20170504-TB | 440-183689-3 | Water | 2017-05-04 | TB | Stage 2A | | | | | | | | | | |
| 440-183810-1 | CTMW-03S-20170505 | 440-183810-1 | Water | 2017-05-05 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-183810-1 | CTMW-03S-20170505MS | 440-183810-1MS | Water | 2017-05-05 | MS | Stage 2A | | | | | X | | | | | |
| 440-183810-1 | CTMW-03S-20170505MSD | 440-183810-1MSD | Water | 2017-05-05 | MSD | Stage 2A | | | | | X | | | | | |
| 440-183810-1 | CTMW-03D-20170505 | 440-183810-2 | Water | 2017-05-05 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-183810-1 | CTMW-03D-20170505MS | 440-183810-2MS | Water | 2017-05-05 | MS | Stage 2A | | | | | | | | | | |
| 440-183810-1 | CTMW-03D-20170505MSD | 440-183810-2MSD | Water | 2017-05-05 | MSD | Stage 2A | | | | | | | | | | |
| 440-183810-1 | CTMW-03S-20170505-TB | 440-183810-3 | Water | 2017-05-05 | TB | Stage 2A | | | | | | | | | | |
| 440-184556-1 | CTMW-01S-20170516 | 440-184556-1 | Water | 2017-05-16 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-184556-1 | CTMW-01D-20170516 | 440-184556-2 | Water | 2017-05-16 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-184556-1 | CTMW-01D-20170516MS | 440-184556-2MS | Water | 2017-05-16 | MS | Stage 2A | | | | | | | | | | |
| 440-184556-1 | CTMW-01D-20170516MSD | 440-184556-2MSD | Water | 2017-05-16 | MSD | Stage 2A | | | | | | | | | | |
| 440-184556-1 | CTMW-02S-20170516 | 440-184556-3 | Water | 2017-05-16 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-184556-1 | CTMW-01S-20170516-TB | 440-184556-4 | Water | 2017-05-16 | TB | Stage 2A | | | | | | | | | | |
| 440-184659-1 | CTMW-02D-20170517 | 440-184659-1 | Water | 2017-05-17 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-184659-1 | CTMW-03S-20170517 | 440-184659-2 | Water | 2017-05-17 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-184659-1 | CTMW-03D-20170517 | 440-184659-3 | Water | 2017-05-17 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-184659-1 | CTMW-03D-20170517MS | 440-184659-3MS | Water | 2017-05-17 | MS | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-184659-1 | CTMW-03D-20170517MSD | 440-184659-3MSD | Water | 2017-05-17 | MSD | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-184659-1 | CTMW-04S-20170517 | 440-184659-4 | Water | 2017-05-17 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-184659-1 | CTMW-04S-20170517MS | 440-184659-4MS | Water | 2017-05-17 | MS | Stage 2A | | | | | | | | | | |
| 440-184659-1 | CTMW-04S-20170517MSD | 440-184659-4MSD | Water | 2017-05-17 | MSD | Stage 2A | | | | | | | | | | |
| 440-184659-1 | CTMW-04D-20170517 | 440-184659-5 | Water | 2017-05-17 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-184659-1 | CTMW-04D-20170517-FD | 440-184659-6 | Water | 2017-05-17 | FD | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-184659-1 | CTMW-02D-20170517-TB | 440-184659-7 | Water | 2017-05-17 | TB | Stage 2A | | | | | | | | | | |
| 440-185475-1 | CTMW-01S-20170531 | 440-185475-1 | Water | 2017-05-31 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-185475-1 | CTMW-01S-20170531MS | 440-185475-1MS | Water | 2017-05-31 | MS | Stage 2A | X | | | | X | | | | | |
| 440-185475-1 | CTMW-01S-20170531MSD | 440-185475-1MSD | Water | 2017-05-31 | MSD | Stage 2A | X | | | | X | | | | | |
| 440-185475-1 | TRIPBLANKS1705311125 | 440-185475-2 | Water | 2017-05-31 | TB | Stage 2A | | | | | | | | | | |
| 440-185475-1 | CTMW-01D-20170531 | 440-185475-3 | Water | 2017-05-31 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-185475-1 | CTMW-01D-20170531MS | 440-185475-3MS | Water | 2017-05-31 | MS | Stage 2A | | | | | X | | | | | |
| 440-185475-1 | CTMW-01D-20170531MSD | 440-185475-3MSD | Water | 2017-05-31 | MSD | Stage 2A | | | | | X | | | | | |
| 440-185562-1 | TRIPBLANK1706010830 | 440-185562-1 | Water | 2017-06-01 | TB | Stage 2A | | | | | | | | | | |
| 440-185562-1 | CTMW-02D-20170601 | 440-185562-2 | Water | 2017-06-01 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-185562-1 | CTMW-02D-20170601MS | 440-185562-2MS | Water | 2017-06-01 | MS | Stage 2A | | | | | | | | | | |
| 440-185562-1 | CTMW-02D-20170601MSD | 440-185562-2MSD | Water | 2017-06-01 | MSD | Stage 2A | | | | | | | | | | |
| 440-185562-1 | CTMW-02D-20170601-FD | 440-185562-3 | Water | 2017-06-01 | FD | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-185562-1 | CTMW-02D-20170601-FDMS | 440-185562-3MS | Water | 2017-06-01 | MS | Stage 2A | | | | | | | | | | |
| 440-185562-1 | CTMW-02D-20170601-FDMSD | 440-185562-3MSD | Water | 2017-06-01 | MSD | Stage 2A | | | | | | | | | | |
| 440-185562-1 | CTMW-03S-20170601 | 440-185562-4 | Water | 2017-06-01 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-185562-1 | TRIPBLANK21706011015 | 440-185562-5 | Water | 2017-06-01 | TB | Stage 2A | | | | | | | | | | |
| 440-185562-1 | CTMW-03D-20170601 | 440-185562-6 | Water | 2017-06-01 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-185562-1 | CTMW-03D-20170601MS | 440-185562-6MS | Water | 2017-06-01 | MS | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-185562-1 | CTMW-03D-20170601MSD | 440-185562-6MSD | Water | 2017-06-01 | MSD | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-185562-1 | CTMW-02S-20170601 | 440-185562-7 | Water | 2017-06-01 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-185643-1 | CTMW-04D-20170602 | 440-185643-1 | Water | 2017-06-02 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate | Chlorate, Chlorite | Perchlorate | Total Kjeldahl Nitrogen | Orthophosphate, Orthophosphorus, Phosphorus | Methane | Alkalinity, Bicarbonate, Carbonate, and Hydroxide | Total Hardness | Total Dissolved Solids | Sulfide |
|--------------|---------------------------|------------------|--------|-------------|---------|------------------|----------------------------|--------------------|--------------|-------------------------|---|-----------|---|----------------|------------------------|----------------|
| | | | | | | | by EPA 300.0 | by EPA 300.1B | by EPA 314.0 | by EPA 351.2 | by EPA 365.3 | by RSK175 | by SM2320B | by SM2340C | by SM2540C | by SM4500-S2-D |
| 440-185643-1 | CTMW-04D-20170602MS | 440-185643-1MS | Water | 2017-06-02 | MS | Stage 2A | | | | | | | | | | |
| 440-185644-1 | TRIPBLANK1706020800 | 440-185644-1 | Water | 2017-06-02 | TB | Stage 2A | | | | | | | | | | |
| 440-185644-1 | CTMW-04S-20170602 | 440-185644-2 | Water | 2017-06-02 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-185644-1 | CTMW-04S-20170602MS | 440-185644-2MS | Water | 2017-06-02 | MS | Stage 2A | | | | | X | | | | | |
| 440-185644-1 | CTMW-04S-20170602MSD | 440-185644-2MSD | Water | 2017-06-02 | MSD | Stage 2A | | | | | X | | | | | |
| 440-185751-1 | CTMW-05D-0.5-20170605 | 440-185751-1 | Solid | 2017-06-05 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D-45.0-20170605 | 440-185751-10 | Solid | 2017-06-05 | NORM | Stage 2A | X (soluble) | X | X | | | | X (soluble) | | X (soluble) | |
| 440-185751-1 | CTMW-05D-45.0-20170605MS | 440-185751-10MS | Solid | 2017-06-05 | MS | Stage 2A | X (soluble) | | | | | | | | | |
| 440-185751-1 | CTMW-05D-45.0-20170605MSD | 440-185751-10MSD | Solid | 2017-06-05 | MSD | Stage 2A | X (soluble) | | | | | | | | | |
| 440-185751-1 | CTMW-05D-50.0-20170605 | 440-185751-11 | Solid | 2017-06-05 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D50.020170605EB | 440-185751-12 | Water | 2017-06-05 | EB | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D50.020170605EBMS | 440-185751-12MS | Water | 2017-06-05 | MS | Stage 2A | | | | | | | | | | |
| 440-185751-1 | CTMW-05D50.020170605EBMSD | 440-185751-12MSD | Water | 2017-06-05 | MSD | Stage 2A | | | | | | | | | | |
| 440-185751-1 | CTMW-05D-0.5-20170605MS | 440-185751-1MS | Solid | 2017-06-05 | MS | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D-0.5-20170605MSD | 440-185751-1MSD | Solid | 2017-06-05 | MSD | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D-5.0-20170605 | 440-185751-2 | Solid | 2017-06-05 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D-10.0-20170605 | 440-185751-3 | Solid | 2017-06-05 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D-15.0-20170605 | 440-185751-4 | Solid | 2017-06-05 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D-15.0-20170605-FD | 440-185751-5 | Solid | 2017-06-05 | FD | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D-25.0-20170605 | 440-185751-6 | Solid | 2017-06-05 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D-30.0-20170605 | 440-185751-7 | Solid | 2017-06-05 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D-35.0-20170605 | 440-185751-8 | Solid | 2017-06-05 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185751-1 | CTMW-05D-40.0-20170605 | 440-185751-9 | Solid | 2017-06-05 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185844-1 | CTMW-05D-55.0-20170605 | 440-185844-1 | Solid | 2017-06-05 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185844-1 | CTMW-05D-55.0-20170605MS | 440-185844-1MS | Solid | 2017-06-05 | MS | Stage 2A | | | | | | | | | | |
| 440-185844-1 | CTMW-05D-55.0-20170605MSD | 440-185844-1MSD | Solid | 2017-06-05 | MSD | Stage 2A | | | | | | | | | | |
| 440-185844-1 | CTMW-05D-60.0-20170605 | 440-185844-2 | Solid | 2017-06-05 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185847-1 | CTMW-05D-20.0-20170605 | 440-185847-1 | Solid | 2017-06-05 | NORM | Stage 2A | X (soluble) | X | X | | | | X (soluble) | | X (soluble) | |
| 440-185869-1 | CTMW-06D-0.5-20170606 | 440-185869-1 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-40.0-20170606 | 440-185869-10 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-40.0-20170606MS | 440-185869-10MS | Solid | 2017-06-06 | MS | Stage 2A | | X | | | | | | | | |
| 440-185869-1 | CTMW-06D-40.0-20170606MSD | 440-185869-10MSD | Solid | 2017-06-06 | MSD | Stage 2A | | X | | | | | | | | |
| 440-185869-1 | CTMW-06D-45.0-20170606 | 440-185869-11 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-45.0-20170606MS | 440-185869-11MS | Solid | 2017-06-06 | MS | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-45.0-20170606MSD | 440-185869-11MSD | Solid | 2017-06-06 | MSD | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-50.0-20170606 | 440-185869-12 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-55.0-20170606 | 440-185869-13 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-55.0-20170606-EB | 440-185869-14 | Water | 2017-06-06 | EB | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-43.5-20170606 | 440-185869-15 | Solid | 2017-06-06 | NORM | Stage 2A | X (soluble) | X | X | | | | X (soluble) | | X (soluble) | |
| 440-185869-1 | CTMW-06D-0.5-20170606MS | 440-185869-1MS | Solid | 2017-06-06 | MS | Stage 2A | | X | | | | | | | | |
| 440-185869-1 | CTMW-06D-0.5-20170606MSD | 440-185869-1MSD | Solid | 2017-06-06 | MSD | Stage 2A | | X | | | | | | | | |
| 440-185869-1 | CTMW-06D-5.0-20170606 | 440-185869-2 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-10.0-20170606 | 440-185869-3 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-10.0-20170606-FD | 440-185869-4 | Solid | 2017-06-06 | FD | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-15.0-20170606 | 440-185869-5 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-20.0-20170606 | 440-185869-6 | Solid | 2017-06-06 | NORM | Stage 2A | X (soluble) | X | X | | | | X (soluble) | | X (soluble) | |
| 440-185869-1 | CTMW-06D-25.0-20170606 | 440-185869-7 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-25.0-20170606MS | 440-185869-7MS | Solid | 2017-06-06 | MS | Stage 2A | | | | | | | | | | |
| 440-185869-1 | CTMW-06D-25.0-20170606MSD | 440-185869-7MSD | Solid | 2017-06-06 | MSD | Stage 2A | | | | | | | | | | |
| 440-185869-1 | CTMW-06D-30.0-20170606 | 440-185869-8 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185869-1 | CTMW-06D-35.0-20170606 | 440-185869-9 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-185875-1 | CTMW-06D-60.0-20170606 | 440-185875-1 | Solid | 2017-06-06 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-186792-1 | UFMW-01I-20170619 | 440-186792-1 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-186795-1 | UFMW-01S-20170619 | 440-186795-1 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-186795-1 | UFMW-01D-20170619 | 440-186795-2 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | | | | | | X | X |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate by EPA 300.0 | Chlorate, Chlorite by EPA 300.1B | Perchlorate by EPA 314.0 | Total Kjeldahl Nitrogen by EPA 351.2 | Orthophosphate, Orthophosphorus, Phosphorus by EPA 365.3 | Methane by RSK175 | Alkalinity, Bicarbonate, Carbonate, and Hydroxide by SM2320B | Total Hardness by SM2340C | Total Dissolved Solids by SM2540C | Sulfide by SM4500-S2-D |
|--------------|-------------------------|-----------------|--------|-------------|---------|------------------|--|-------------------------------------|-----------------------------|---|---|----------------------|---|------------------------------|--------------------------------------|---------------------------|
| 440-186795-1 | UFMW-01D-20170619MS | 440-186795-2MS | Water | 2017-06-19 | MS | Stage 2A | | | | | | | | | | |
| 440-186795-1 | UFMW-01D-20170619MSD | 440-186795-2MSD | Water | 2017-06-19 | MSD | Stage 2A | | | | | | | | | | |
| 440-186795-1 | UFMW-02S-20170619 | 440-186795-3 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-186795-1 | UFMW-02I-20170619 | 440-186795-4 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-186829-1 | TRIPBLANK11706190700 | 440-186829-1 | Water | 2017-06-19 | TB | Stage 2A | | | | | | | | | | |
| 440-186829-1 | CTMW-01S-20170619 | 440-186829-2 | Water | 2017-06-19 | NORM | Stage 2A | X | X | | X | X | X | X | X | X | X |
| 440-186829-1 | CTMW-01S-20170619MS | 440-186829-2MS | Water | 2017-06-19 | MS | Stage 2A | | | | | | | | | | |
| 440-186829-1 | CTMW-01S-20170619MSD | 440-186829-2MSD | Water | 2017-06-19 | MSD | Stage 2A | | | | | | | | | | |
| 440-186829-1 | CTMW-01D-20170619 | 440-186829-3 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-186829-1 | CTMW-01D-20170619MS | 440-186829-3MS | Water | 2017-06-19 | MS | Stage 2A | X | X | X | X | X | | | | | X |
| 440-186829-1 | CTMW-01D-20170619MSD | 440-186829-3MSD | Water | 2017-06-19 | MSD | Stage 2A | X | X | X | X | X | | | | | X |
| 440-186829-1 | CTMW-02D-20170619 | 440-186829-4 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-186829-1 | CTMW-02D-20170619-FD | 440-186829-5 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-186829-1 | TRIPBLANK21706191130 | 440-186829-6 | Water | 2017-06-19 | TB | Stage 2A | | | | | | | | | | |
| 440-186829-2 | CTMW-01S-20170619 | 440-186829-2 | Water | 2017-06-19 | NORM | Stage 2A | | X | X | | | | | | | |
| 440-186901-1 | CTMW-04S-20170620 | 440-186901-1 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-186901-1 | CTMW-04S-20170620MS | 440-186901-1MS | Water | 2017-06-20 | MS | Stage 2A | | | | | | | | | | |
| 440-186901-1 | CTMW-04S-20170620MSD | 440-186901-1MSD | Water | 2017-06-20 | MSD | Stage 2A | | | | | | | | | | |
| 440-186906-1 | TRIPBLANK1706200430 | 440-186906-1 | Water | 2017-06-20 | TB | Stage 2A | | | | | | | | | | |
| 440-186906-1 | CTMW-02S-20170620 | 440-186906-2 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-186906-1 | CTMW-02S-20170620MS | 440-186906-2MS | Water | 2017-06-20 | MS | Stage 2A | | | | | | | | | | |
| 440-186906-1 | CTMW-02S-20170620MSD | 440-186906-2MSD | Water | 2017-06-20 | MSD | Stage 2A | | | | | | | | | | |
| 440-186906-1 | CTMW-03S-20170620 | 440-186906-3 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-186906-1 | CTMW-03D-20170620 | 440-186906-4 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-186906-1 | CTMW-03D-20170620MS | 440-186906-4MS | Water | 2017-06-20 | MS | Stage 2A | | | | | | | | | | |
| 440-186906-1 | CTMW-03D-20170620MSD | 440-186906-4MSD | Water | 2017-06-20 | MSD | Stage 2A | | | | | | | | | | |
| 440-186917-1 | UFMW-03I-20170620 | 440-186917-1 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-186917-1 | UFMW-03I-20170620MS | 440-186917-1MS | Water | 2017-06-20 | MS | Stage 2A | | | | | | | | | | |
| 440-186917-1 | UFMW-03I-20170620MSD | 440-186917-1MSD | Water | 2017-06-20 | MSD | Stage 2A | | | | | | | | | | |
| 440-186917-1 | UFMW-03D-20170620 | 440-186917-2 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-186917-1 | UFMW-02D-20170620 | 440-186917-3 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-186917-1 | UFMW-02D-20170620MS | 440-186917-3MS | Water | 2017-06-20 | MS | Stage 2A | | | | | | | | | | |
| 440-186917-1 | UFMW-02D-20170620MSD | 440-186917-3MSD | Water | 2017-06-20 | MSD | Stage 2A | | | | | | | | | | |
| 440-186917-1 | UFMW-04S-20170620 | 440-186917-4 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-186917-1 | UFMW-04I-20170620 | 440-186917-5 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-186917-1 | UFMW-04I-20170620-FD | 440-186917-6 | Water | 2017-06-20 | FD | Stage 2A | X | X | X | | | | | | X | X |
| 440-187017-1 | TRIPBLANK1706210430 | 440-187017-1 | Water | 2017-06-21 | TB | Stage 2A | | | | | | | | | | |
| 440-187017-1 | CTMW-04D-20170621 | 440-187017-2 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-187017-1 | CTMW-04D-20170621MS | 440-187017-2MS | Water | 2017-06-21 | MS | Stage 2A | | | | | | | | | | |
| 440-187017-1 | CTMW-04D-20170621MSD | 440-187017-2MSD | Water | 2017-06-21 | MSD | Stage 2A | | | | | | | | | | |
| 440-187017-1 | CTMW-05S-20170621 | 440-187017-3 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-187017-1 | CTMW-05D-20170621 | 440-187017-4 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-187017-1 | CTMW-05D-20170621-FD | 440-187017-5 | Water | 2017-06-21 | FD | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-187017-1 | CTMW-05D-20170621-FDMS | 440-187017-5MS | Water | 2017-06-21 | MS | Stage 2A | | | | | | | | | | |
| 440-187017-1 | CTMW-05D-20170621-FDMSD | 440-187017-5MSD | Water | 2017-06-21 | MSD | Stage 2A | | | | | | | | | | |
| 440-187017-1 | CTMW-06S-20170621 | 440-187017-6 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-187020-1 | UFMW-04D-20170621 | 440-187020-1 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-187020-1 | UFMW-05S-20170621 | 440-187020-2 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-187020-1 | UFMW-05I-20170621 | 440-187020-3 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-187020-1 | UFMW-05D-20170621 | 440-187020-4 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-187020-1 | UFMW-05D-20170621MS | 440-187020-4MS | Water | 2017-06-21 | MS | Stage 2A | X | X | X | | | | | | | X |
| 440-187020-1 | UFMW-05D-20170621MSD | 440-187020-4MSD | Water | 2017-06-21 | MSD | Stage 2A | X | X | X | | | | | | | X |
| 440-187020-1 | UFMW-06S-20170621 | 440-187020-5 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-187098-1 | UFMW-06D-20170622 | 440-187098-1 | Water | 2017-06-22 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-187098-1 | UFMW-06D-20170622-FD | 440-187098-2 | Water | 2017-06-22 | FD | Stage 2A | X | X | X | | | | | | X | X |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate | Chlorate, Chlorite | Perchlorate | Total Kjeldahl Nitrogen | Orthophosphate, Orthophosphorus, Phosphorus | Methane | Alkalinity, Bicarbonate, Carbonate, and Hydroxide | Total Hardness | Total Dissolved Solids | Sulfide |
|--------------|-------------------------|-----------------|--------|-------------|---------|------------------|----------------------------|--------------------|--------------|-------------------------|---|-----------|---|----------------|------------------------|----------------|
| | | | | | | | by EPA 300.0 | by EPA 300.1B | by EPA 314.0 | by EPA 351.2 | by EPA 365.3 | by RSK175 | by SM2320B | by SM2340C | by SM2540C | by SM4500-S2-D |
| 440-187099-1 | UFMW-06I-20170622 | 440-187099-1 | Water | 2017-06-22 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-187099-1 | UFMW-06I-20170622MS | 440-187099-1MS | Water | 2017-06-22 | MS | Stage 2A | | | | | | | | | | |
| 440-187099-1 | UFMW-06I-20170622MSD | 440-187099-1MSD | Water | 2017-06-22 | MSD | Stage 2A | | | | | | | | | | |
| 440-187101-1 | TRIPBLANK1706220430 | 440-187101-1 | Water | 2017-06-22 | TB | Stage 2A | | | | | | | | | | |
| 440-187101-1 | CTMW-06D-20170622 | 440-187101-2 | Water | 2017-06-22 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-187101-1 | CTMW-06D-20170622MS | 440-187101-2MS | Water | 2017-06-22 | MS | Stage 2A | X | | | | | | | | | |
| 440-187101-1 | CTMW-06D-20170622MSD | 440-187101-2MSD | Water | 2017-06-22 | MSD | Stage 2A | X | | | | | | | | | |
| 440-188487-1 | TRIPBLANK1707170630 | 440-188487-1 | Water | 2017-07-17 | TB | Stage 2A | | | | | | | | | | |
| 440-188487-1 | CTMW-06S-20170717 | 440-188487-2 | Water | 2017-07-17 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188487-1 | CTMW-06S-20170717MS | 440-188487-2MS | Water | 2017-07-17 | MS | Stage 2A | | | X | | | | | | | |
| 440-188487-1 | CTMW-06S-20170717MSD | 440-188487-2MSD | Water | 2017-07-17 | MSD | Stage 2A | | | X | | | | | | | |
| 440-188487-1 | CTMW-06D-20170717 | 440-188487-3 | Water | 2017-07-17 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188487-1 | CTMW-06D-20170717MS | 440-188487-3MS | Water | 2017-07-17 | MS | Stage 2A | | X | | | | | | | | |
| 440-188487-1 | CTMW-06D-20170717MSD | 440-188487-3MSD | Water | 2017-07-17 | MSD | Stage 2A | | X | | | | | | | | |
| 440-188487-1 | CTMW-06D-20170717-FD | 440-188487-4 | Water | 2017-07-17 | FD | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188487-1 | CTMW-05S-20170717 | 440-188487-5 | Water | 2017-07-17 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188538-1 | TRIPBLANK1707180600 | 440-188538-1 | Water | 2017-07-18 | TB | Stage 2A | | | | | | | | | | |
| 440-188538-1 | CTMW-05D-20170718 | 440-188538-2 | Water | 2017-07-18 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188538-1 | CTMW-05D-20170718MS | 440-188538-2MS | Water | 2017-07-18 | MS | Stage 2A | X | X | X | X | X | | | | | X |
| 440-188538-1 | CTMW-05D-20170718MSD | 440-188538-2MSD | Water | 2017-07-18 | MSD | Stage 2A | X | X | X | X | X | | | | | X |
| 440-188538-1 | CTMW-04D-20170718 | 440-188538-3 | Water | 2017-07-18 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188538-1 | CTMW-04S-20170718 | 440-188538-4 | Water | 2017-07-18 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188538-1 | CTMW-03S-20170718 | 440-188538-5 | Water | 2017-07-18 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188655-1 | TRIPBLANK1707190500 | 440-188655-1 | Water | 2017-07-19 | TB | Stage 2A | | | | | | | | | | |
| 440-188655-1 | CTMW-03D-20170719 | 440-188655-2 | Water | 2017-07-19 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188655-1 | CTMW-03D-20170719MS | 440-188655-2MS | Water | 2017-07-19 | MS | Stage 2A | | | | | X | | | | | |
| 440-188655-1 | CTMW-03D-20170719MSD | 440-188655-2MSD | Water | 2017-07-19 | MSD | Stage 2A | | | | | X | | | | | |
| 440-188655-1 | CTMW-02S-20170719 | 440-188655-3 | Water | 2017-07-19 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188655-1 | CTMW-02D-20170719 | 440-188655-4 | Water | 2017-07-19 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188655-1 | CTMW-02D-20170719MS | 440-188655-4MS | Water | 2017-07-19 | MS | Stage 2A | | | | | | | | | | |
| 440-188655-1 | CTMW-02D-20170719MSD | 440-188655-4MSD | Water | 2017-07-19 | MSD | Stage 2A | | | | | | | | | | |
| 440-188722-1 | TRIPBLANK1707200500 | 440-188722-1 | Water | 2017-07-20 | TB | Stage 2A | | | | | | | | | | |
| 440-188722-1 | CTMW-01D-20170720 | 440-188722-2 | Water | 2017-07-20 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188722-1 | CTMW-01D-20170720MS | 440-188722-2MS | Water | 2017-07-20 | MS | Stage 2A | | X | | | X | | | | | |
| 440-188722-1 | CTMW-01D-20170720MSD | 440-188722-2MSD | Water | 2017-07-20 | MSD | Stage 2A | | X | | | X | | | | | |
| 440-188722-1 | CTMW-01D-20170720-FD | 440-188722-3 | Water | 2017-07-20 | FD | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188726-1 | CTMW-01S-20170720 | 440-188726-1 | Water | 2017-07-20 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-188726-1 | CTMW-01S-20170720MS | 440-188726-1MS | Water | 2017-07-20 | MS | Stage 2A | | | | | | | | | | |
| 440-188726-1 | CTMW-01S-20170720MSD | 440-188726-1MSD | Water | 2017-07-20 | MSD | Stage 2A | | | | | | | | | | |
| 440-190307-1 | UFMW-06D-20170815 | 440-190307-1 | Water | 2017-08-15 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190307-1 | UFMW-06D-20170815MS | 440-190307-1MS | Water | 2017-08-15 | MS | Stage 2A | X | X | X | | | | | | | X |
| 440-190307-1 | UFMW-06D-20170815MSD | 440-190307-1MSD | Water | 2017-08-15 | MSD | Stage 2A | X | X | X | | | | | | | X |
| 440-190307-1 | UFMW-06I-20170815 | 440-190307-2 | Water | 2017-08-15 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190307-1 | UFMW-06I-20170815MS | 440-190307-2MS | Water | 2017-08-15 | MS | Stage 2A | | | | | | | | | | |
| 440-190307-1 | UFMW-06I-20170815MSD | 440-190307-2MSD | Water | 2017-08-15 | MSD | Stage 2A | | | | | | | | | | |
| 440-190307-1 | UFMW-06I-20170815-FD | 440-190307-3 | Water | 2017-08-15 | FD | Stage 2A | X | X | X | | | | | | X | X |
| 440-190307-1 | UFMW-06I-20170815-FDMS | 440-190307-3MS | Water | 2017-08-15 | MS | Stage 2A | | | | | | | | | | |
| 440-190307-1 | UFMW-06I-20170815-FDMSD | 440-190307-3MSD | Water | 2017-08-15 | MSD | Stage 2A | | | | | | | | | | |
| 440-190307-1 | UFMW-06S-20170815 | 440-190307-4 | Water | 2017-08-15 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190307-1 | UFMW-05D-20170815 | 440-190307-5 | Water | 2017-08-15 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190400-1 | UFMW-01I-20170816 | 440-190400-1 | Water | 2017-08-16 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190402-1 | UFMW-05I-20170816 | 440-190402-1 | Water | 2017-08-16 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190402-1 | UFMW-05S-20170816 | 440-190402-2 | Water | 2017-08-16 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190402-1 | UFMW-05S-20170816MS | 440-190402-2MS | Water | 2017-08-16 | MS | Stage 2A | | | | | | | | | | |
| 440-190402-1 | UFMW-05S-20170816MSD | 440-190402-2MSD | Water | 2017-08-16 | MSD | Stage 2A | | | | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate | Chlorate, Chlorite | Perchlorate | Total Kjeldahl Nitrogen | Orthophosphate, Orthophosphorus, Phosphorus | Methane | Alkalinity, Bicarbonate, Carbonate, and Hydroxide | Total Hardness | Total Dissolved Solids | Sulfide |
|--------------|-------------------------|-----------------|--------|-------------|---------|------------------|----------------------------|--------------------|--------------|-------------------------|---|-----------|---|----------------|------------------------|----------------|
| | | | | | | | by EPA 300.0 | by EPA 300.1B | by EPA 314.0 | by EPA 351.2 | by EPA 365.3 | by RSK175 | by SM2320B | by SM2340C | by SM2540C | by SM4500-S2-D |
| 440-190402-1 | UFMW-04D-20170816 | 440-190402-3 | Water | 2017-08-16 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190402-1 | UFMW-04I-20170816 | 440-190402-4 | Water | 2017-08-16 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190402-1 | UFMW-04S-20170816 | 440-190402-5 | Water | 2017-08-16 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190402-1 | UFMW-01D-20170816 | 440-190402-6 | Water | 2017-08-16 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190453-1 | UFMW-01S-20170817 | 440-190453-1 | Water | 2017-08-17 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190453-1 | UFMW-01S-20170817MS | 440-190453-1MS | Water | 2017-08-17 | MS | Stage 2A | | | | | | | | | | |
| 440-190453-1 | UFMW-01S-20170817MSD | 440-190453-1MSD | Water | 2017-08-17 | MSD | Stage 2A | | | | | | | | | | |
| 440-190453-1 | UFMW-03D-20170817 | 440-190453-2 | Water | 2017-08-17 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190453-1 | UFMW-03I-20170817 | 440-190453-3 | Water | 2017-08-17 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190453-1 | UFMW-03I-20170817-FD | 440-190453-4 | Water | 2017-08-17 | FD | Stage 2A | X | X | X | | | | | | X | X |
| 440-190453-1 | UFMW-02D-20170817 | 440-190453-5 | Water | 2017-08-17 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190453-1 | UFMW-02I-20170817 | 440-190453-6 | Water | 2017-08-17 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-190453-1 | UFMW-02I-20170817MS | 440-190453-6MS | Water | 2017-08-17 | MS | Stage 2A | | | | | | | | | | X |
| 440-190453-1 | UFMW-02I-20170817MSD | 440-190453-6MSD | Water | 2017-08-17 | MSD | Stage 2A | | | | | | | | | | X |
| 440-190752-1 | CTMW-06D-20170822 | 440-190752-1 | Water | 2017-08-22 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190752-1 | CTMW-06D-20170822MS | 440-190752-1MS | Water | 2017-08-22 | MS | Stage 2A | | X | | | | | | | | |
| 440-190752-1 | CTMW-06D-20170822MSD | 440-190752-1MSD | Water | 2017-08-22 | MSD | Stage 2A | | X | | | | | | | | |
| 440-190752-1 | CTMW-05D-20170822 | 440-190752-2 | Water | 2017-08-22 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190752-1 | CTMW-06S-20170822 | 440-190752-3 | Water | 2017-08-22 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190752-1 | CTMW-05S-20170822 | 440-190752-4 | Water | 2017-08-22 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190752-1 | CTMW-05S-20170822MS | 440-190752-4MS | Water | 2017-08-22 | MS | Stage 2A | X | | | | | | | | | |
| 440-190752-1 | CTMW-05S-20170822MSD | 440-190752-4MSD | Water | 2017-08-22 | MSD | Stage 2A | X | | | | | | | | | |
| 440-190752-1 | CTMW-06D-20170822-TB | 440-190752-5 | Water | 2017-08-22 | TB | Stage 2A | | | | | | | | | | |
| 440-190843-1 | CTMW-03D-20170823 | 440-190843-1 | Water | 2017-08-23 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190843-1 | CTMW-03D-20170823MS | 440-190843-1MS | Water | 2017-08-23 | MS | Stage 2A | | | | | X | | | | | |
| 440-190843-1 | CTMW-03D-20170823MSD | 440-190843-1MSD | Water | 2017-08-23 | MSD | Stage 2A | | | | | X | | | | | |
| 440-190847-1 | CTMW-04D-20170823 | 440-190847-1 | Water | 2017-08-23 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190847-1 | CTMW-04D-20170823-FD | 440-190847-2 | Water | 2017-08-23 | FD | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190847-1 | CTMW-04D-20170823-FDMS | 440-190847-2MS | Water | 2017-08-23 | MS | Stage 2A | | X | | | | | | | | |
| 440-190847-1 | CTMW-04D-20170823-FDMSD | 440-190847-2MSD | Water | 2017-08-23 | MSD | Stage 2A | | X | | | | | | | | |
| 440-190847-1 | CTMW-04S-20170823 | 440-190847-3 | Water | 2017-08-23 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190847-1 | CTMW-03S-20170823 | 440-190847-4 | Water | 2017-08-23 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190847-1 | CTMW-03S-20170823MS | 440-190847-4MS | Water | 2017-08-23 | MS | Stage 2A | | | | | | | | | | X |
| 440-190847-1 | CTMW-03S-20170823MSD | 440-190847-4MSD | Water | 2017-08-23 | MSD | Stage 2A | | | | | | | | | | X |
| 440-190950-1 | CTMW-02D-20170824 | 440-190950-1 | Water | 2017-08-24 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190950-1 | CTMW-02D-20170824MS | 440-190950-1MS | Water | 2017-08-24 | MS | Stage 2A | X | X | X | X | X | | | | | X |
| 440-190950-1 | CTMW-02D-20170824MSD | 440-190950-1MSD | Water | 2017-08-24 | MSD | Stage 2A | X | X | X | X | X | | | | | X |
| 440-190950-1 | CTMW-01D-20170824 | 440-190950-2 | Water | 2017-08-24 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190950-1 | CTMW-01S-20170824 | 440-190950-3 | Water | 2017-08-24 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-190950-1 | CTMW-02D-20170824-TB | 440-190950-4 | Water | 2017-08-24 | TB | Stage 2A | | | | | | | | | | |
| 440-192518-1 | CTMW-06D-20170919 | 440-192518-1 | Water | 2017-09-19 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192518-1 | CTMW-06D-20170919MS | 440-192518-1 | Water | 2017-09-19 | MS | Stage 2A | | | | | | | | | | X |
| 440-192518-1 | CTMW-06D-20170919SD | 440-192518-1 | Water | 2017-09-19 | MSD | Stage 2A | | | | | | | | | | X |
| 440-192518-1 | CTMW-06D-20170919-FD | 440-192518-2 | Water | 2017-09-19 | FD | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192518-1 | CTMW-06S-20170919 | 440-192518-3 | Water | 2017-09-19 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192518-1 | CTMW-05D-20170919 | 440-192518-4 | Water | 2017-09-19 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192518-1 | CTMW-05D-20170919MS | 440-192518-4 | Water | 2017-09-19 | MS | Stage 2A | | | | | | | | | | |
| 440-192518-1 | CTMW-05D-20170919SD | 440-192518-4 | Water | 2017-09-19 | MSD | Stage 2A | | | | | | | | | | |
| 440-192518-1 | CTMW-05S-20170919 | 440-192518-5 | Water | 2017-09-19 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192617-1 | CTMW-02D-20170920 | 440-192617-1 | Water | 2017-09-20 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192617-1 | CTMW-02D-20170920MS | 440-192617-1MS | Water | 2017-09-20 | MS | Stage 2A | | | | | X | | | | | |
| 440-192617-1 | CTMW-02D-20170920MSD | 440-192617-1MSD | Water | 2017-09-20 | MSD | Stage 2A | | | | | X | | | | | |
| 440-192619-1 | CTMW-01D-20170920 | 440-192619-1 | Water | 2017-09-20 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192619-1 | CTMW-01D-20170920MS | 440-192619-1MS | Water | 2017-09-20 | MS | Stage 2A | | | | | | | | | | |
| 440-192619-1 | CTMW-01D-20170920MSD | 440-192619-1MSD | Water | 2017-09-20 | MSD | Stage 2A | | | | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate | Chlorate, Chlorite | Perchlorate | Total Kjeldahl Nitrogen | Orthophosphate, Orthophosphorus, Phosphorus | Methane | Alkalinity, Bicarbonate, Carbonate, and Hydroxide | Total Hardness | Total Dissolved Solids | Sulfide |
|--------------|----------------------|-----------------|--------|-------------|---------|------------------|----------------------------|--------------------|--------------|-------------------------|---|-----------|---|----------------|------------------------|----------------|
| | | | | | | | by EPA 300.0 | by EPA 300.1B | by EPA 314.0 | by EPA 351.2 | by EPA 365.3 | by RSK175 | by SM2320B | by SM2340C | by SM2540C | by SM4500-S2-D |
| 440-192619-1 | CTMW-01S-20170920 | 440-192619-2 | Water | 2017-09-20 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192619-1 | CTMW-02S-20170920 | 440-192619-3 | Water | 2017-09-20 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192619-1 | CTMW-04D-20170920 | 440-192619-4 | Water | 2017-09-20 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192711-1 | CTMW-04S-20170921 | 440-192711-1 | Water | 2017-09-21 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192711-1 | CTMW-04S-20170921MS | 440-192711-1MS | Water | 2017-09-21 | MS | Stage 2A | X | | | | | | | | | |
| 440-192711-1 | CTMW-04S-20170921MSD | 440-192711-1MSD | Water | 2017-09-21 | MSD | Stage 2A | X | | | | | | | | | |
| 440-192711-1 | CTMW-03D-20170921 | 440-192711-2 | Water | 2017-09-21 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192711-1 | CTMW-03D-20170921MS | 440-192711-2MS | Water | 2017-09-21 | MS | Stage 2A | | | | | X | | | | | |
| 440-192711-1 | CTMW-03D-20170921MSD | 440-192711-2MSD | Water | 2017-09-21 | MSD | Stage 2A | | | | | X | | | | | |
| 440-192711-1 | CTMW-03S-20170921 | 440-192711-3 | Water | 2017-09-21 | NORM | Stage 2A | X | X | X | X | X | X | X | X | X | X |
| 440-192711-1 | CTMW-03S-20170921MS | 440-192711-3MS | Water | 2017-09-21 | MS | Stage 2A | | | | | | | | | | |
| 440-192711-1 | CTMW-03S-20170921MSD | 440-192711-3MSD | Water | 2017-09-21 | MSD | Stage 2A | | | | | | | | | | |
| 440-193441-1 | M12_20171003-TB | 440-193441-1 | Water | 2017-10-03 | TB | Stage 2A | | | | | | | | | | |
| 440-193441-1 | CTMW-01D-20171003 | 440-193441-2 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193441-1 | CTMW-01D-20171003MS | 440-193441-2 | Water | 2017-10-03 | MS | Stage 2B | | | | | | | | | | |
| 440-193441-1 | CTMW-01D-20171003SD | 440-193441-2 | Water | 2017-10-03 | MSD | Stage 2B | | | | | | | | | | |
| 440-193441-1 | CTMW-02D-20171003 | 440-193441-3 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193441-1 | CTMW-01S-20171003 | 440-193441-4 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193441-1 | CTMW-01S-20171003MS | 440-193441-4 | Water | 2017-10-03 | MS | Stage 2B | | | X | | | | | | | |
| 440-193441-1 | CTMW-01S-20171003SD | 440-193441-4 | Water | 2017-10-03 | MSD | Stage 2B | | | X | | | | | | | |
| 440-193441-1 | CTMW-02S-20171003 | 440-193441-5 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193441-1 | CTMW-02S-20171003MS | 440-193441-5 | Water | 2017-10-03 | MS | Stage 2B | X | | | | | | | | | |
| 440-193441-1 | CTMW-02S-20171003SD | 440-193441-5 | Water | 2017-10-03 | MSD | Stage 2B | X | | | | | | | | | |
| 440-193441-1 | CTMW-03D-20171003 | 440-193441-6 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193441-1 | CTMW-04D-20171003 | 440-193441-7 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193441-1 | CTMW-03S-20171003 | 440-193441-8 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193441-1 | CTMW-04S-20171003 | 440-193441-9 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193441-1 | CTMW-04S-20171003MS | 440-193441-9 | Water | 2017-10-03 | MS | Stage 2B | X | | | | | | | | | |
| 440-193441-1 | CTMW-04S-20171003SD | 440-193441-9 | Water | 2017-10-03 | MSD | Stage 2B | X | | | | | | | | | |
| 440-193508-1 | CTMW-06S-20171004 | 440-193508-1 | Water | 2017-10-04 | NORM | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193508-1 | CTMW-06S-20171004MS | 440-193508-1 | Water | 2017-10-04 | MS | Stage 2B | | | | | | | | | | |
| 440-193508-1 | CTMW-06S-20171004SD | 440-193508-1 | Water | 2017-10-04 | MSD | Stage 2B | | | | | | | | | | |
| 440-193514-1 | TRIPBLANK1710040700 | 440-193514-1 | Water | 2017-10-04 | TB | Stage 2A | | | | | | | | | | |
| 440-193514-1 | CTMW-06D-20171004 | 440-193514-2 | Water | 2017-10-04 | NORM | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193514-1 | CTMW-06D-20171004MS | 440-193514-2MS | Water | 2017-10-04 | MS | Stage 2B | | | | | | | | | | |
| 440-193514-1 | CTMW-06D-20171004-FD | 440-193514-3 | Water | 2017-10-04 | FD | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193514-1 | CTMW-05S-20171004 | 440-193514-5 | Water | 2017-10-04 | NORM | Stage 2B | X | X | X | X | X | X | X | X | X | X |
| 440-193514-2 | CTMW-05D-20171004 | 440-193514-4 | Water | 2017-10-04 | NORM | Stage 4 | X | X | X | X | X | X | X | X | X | X |
| 440-193514-2 | CTMW-05D-20171004MS | 440-193514-4MS | Water | 2017-10-04 | MS | Stage 4 | X | X | X | X | X | | | | | X |
| 440-193514-2 | CTMW-05D-20171004MSD | 440-193514-4MSD | Water | 2017-10-04 | MSD | Stage 4 | X | X | X | X | X | | | | | X |
| 440-193552-1 | UFMW-05I-20171004 | 440-193552-1 | Water | 2017-10-04 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193552-1 | UFMW-05I-20171004MS | 440-193552-1MS | Water | 2017-10-04 | MS | Stage 2A | X | | | | | | | | | |
| 440-193552-1 | UFMW-05I-20171004MSD | 440-193552-1MSD | Water | 2017-10-04 | MSD | Stage 2A | X | | | | | | | | | |
| 440-193552-1 | UFMW-05D-20171004 | 440-193552-2 | Water | 2017-10-04 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193552-1 | UFMW-06I-20171004 | 440-193552-3 | Water | 2017-10-04 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193552-1 | UFMW-06D-20171004 | 440-193552-4 | Water | 2017-10-04 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193674-1 | UFMW-01D-20171005 | 440-193674-1 | Water | 2017-10-05 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193677-1 | UFMW-04S-20171005 | 440-193677-1 | Water | 2017-10-05 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193677-1 | UFMW-04I-20171005 | 440-193677-2 | Water | 2017-10-05 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193677-1 | UFMW-05S-20171005 | 440-193677-3 | Water | 2017-10-05 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193677-1 | UFMW-06S-20171005 | 440-193677-4 | Water | 2017-10-05 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193677-1 | UFMW-06S-20171005MS | 440-193677-4MS | Water | 2017-10-05 | MS | Stage 2A | | X | X | | | | | | | X |
| 440-193677-1 | UFMW-06S-20171005MSD | 440-193677-4MSD | Water | 2017-10-05 | MSD | Stage 2A | | X | X | | | | | | | X |
| 440-193677-1 | UFMW-04D-20171005 | 440-193677-5 | Water | 2017-10-05 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193677-1 | UFMW-04D-20171005-FD | 440-193677-6 | Water | 2017-10-05 | FD | Stage 2A | X | X | X | | | | | | X | X |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chloride, Nitrate, Sulfate by EPA 300.0 | Chlorate, Chlorite by EPA 300.1B | Perchlorate by EPA 314.0 | Total Kjeldahl Nitrogen by EPA 351.2 | Orthophosphate, Orthophosphorus, Phosphorus by EPA 365.3 | Methane by RSK175 | Alkalinity, Bicarbonate, Carbonate, and Hydroxide by SM2320B | Total Hardness by SM2340C | Total Dissolved Solids by SM2540C | Sulfide by SM4500-S2-D |
|--------------|-------------------|---------------|--------|-------------|---------|------------------|--|-------------------------------------|-----------------------------|---|---|----------------------|---|------------------------------|--------------------------------------|---------------------------|
| 440-193776-1 | UFMW-01I-20171006 | 440-193776-1 | Water | 2017-10-06 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193776-1 | UFMW-02I-20171006 | 440-193776-2 | Water | 2017-10-06 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193776-1 | UFMW-02D-20171006 | 440-193776-3 | Water | 2017-10-06 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193776-1 | UFMW-03I-20171006 | 440-193776-4 | Water | 2017-10-06 | NORM | Stage 2A | X | X | X | | | | | | X | X |
| 440-193776-1 | UFMW-03D-20171006 | 440-193776-5 | Water | 2017-10-06 | NORM | Stage 2A | X | X | X | | | | | | X | X |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand | Total Organic Carbon | Calcium, Magnesium, Potassium, Sodium | Metals | Chromium VI | Mercury | Volatile Organic Compounds | pH | Total Organic Carbon | Volatile Fatty Acids |
|--------------|------------------------|---------------|--------|-------------|---------|------------------|------------------------|----------------------|---------------------------------------|------------|-------------|-------------|----------------------------|-------------|----------------------|----------------------|
| | | | | | | | by SM5220D | by SM5310B | by SW-6010B | by SW-6020 | by SW-7199 | by SW-7471A | by SW-8260B | by SW-9045C | by SW-9060 | by VFA-IC |
| 440-154192-1 | UF1W-04D-20160801 | 440-154192-1 | Water | 2016-08-01 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154192-1 | UF1W-04D-20160801MS | 440-154192-1 | Water | 2016-08-01 | MS | Stage 2A | | | | | X | | | | | |
| 440-154192-1 | UF1W-04D-20160801SD | 440-154192-1 | Water | 2016-08-01 | MSD | Stage 2A | | | | | X | | | | | |
| 440-154192-1 | UF1W-04D-20160801-EB | 440-154192-2 | Water | 2016-08-01 | EB | Stage 2A | | | X | | X | | | | | |
| 440-154252-1 | UFIW-04I-20160802 | 440-154252-1 | Water | 2016-08-02 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154252-1 | UFIW-04I-20160802-FD | 440-154252-2 | Water | 2016-08-02 | FD | Stage 2A | | | X | | X | | | | | |
| 440-154252-1 | UFIW-04I-20160802-FDMS | 440-154252-2 | Water | 2016-08-02 | MS | Stage 2A | | | | | X | | | | | |
| 440-154252-1 | UFIW-04I-20160802-FDSD | 440-154252-2 | Water | 2016-08-02 | MSD | Stage 2A | | | | | X | | | | | |
| 440-154252-1 | UFIW-01D-20160802 | 440-154252-3 | Water | 2016-08-02 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154356-1 | UFIW-01I-2016802 | 440-154356-1 | Water | 2016-08-02 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154356-1 | UFIW-01I-2016802MS | 440-154356-1 | Water | 2016-08-02 | MS | Stage 2A | | | | | X | | | | | |
| 440-154356-1 | UFIW-01I-2016802SD | 440-154356-1 | Water | 2016-08-02 | MSD | Stage 2A | | | | | X | | | | | |
| 440-154356-1 | UFIW-01I-2016802-EB | 440-154356-2 | Water | 2016-08-02 | EB | Stage 2A | | | X | | X | | | | | |
| 440-154356-1 | UFIW-01I-2016802-FB | 440-154356-3 | Water | 2016-08-02 | FB | Stage 2A | | | X | | X | | | | | |
| 440-154551-1 | UFIW-02D-20160803 | 440-154551-1 | Water | 2016-08-03 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154551-1 | UFIW-02D-20160803MS | 440-154551-1 | Water | 2016-08-03 | MS | Stage 2A | | | X | | X | | | | | |
| 440-154551-1 | UFIW-02D-20160803SD | 440-154551-1 | Water | 2016-08-03 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-154557-1 | UFIW-02I-20160803 | 440-154557-1 | Water | 2016-08-03 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154557-1 | UFIW-02I-20160803MS | 440-154557-1 | Water | 2016-08-03 | MS | Stage 2A | | | | | X | | | | | |
| 440-154557-1 | UFIW-02I-20160803SD | 440-154557-1 | Water | 2016-08-03 | MSD | Stage 2A | | | | | X | | | | | |
| 440-154557-1 | UFIW-02I-20160803-EB | 440-154557-2 | Water | 2016-08-03 | EB | Stage 2A | | | X | | X | | | | | |
| 440-154557-1 | UFIW-02I-20160803-FB | 440-154557-3 | Water | 2016-08-03 | FB | Stage 2A | | | X | | X | | | | | |
| 440-154654-1 | UFIW-03D-20160804 | 440-154654-1 | Water | 2016-08-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154654-1 | UFIW-03I-20160804 | 440-154654-2 | Water | 2016-08-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154692-1 | UFIW-03S-20160804 | 440-154692-1 | Water | 2016-08-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154692-1 | UFIW-03S-20160804MS | 440-154692-1 | Water | 2016-08-04 | MS | Stage 2A | | | | | X | | | | | |
| 440-154692-1 | UFIW-03S-20160804SD | 440-154692-1 | Water | 2016-08-04 | MSD | Stage 2A | | | | | X | | | | | |
| 440-154692-1 | UFIW-03D-20160804-FB | 440-154692-2 | Water | 2016-08-04 | FB | Stage 2A | | | X | | X | | | | | |
| 440-154692-1 | UFIW-03S-20160804-EB | 440-154692-3 | Water | 2016-08-04 | EB | Stage 2A | | | X | | X | | | | | |
| 440-154772-1 | UFIW-01S-20160805 | 440-154772-1 | Water | 2016-08-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154772-1 | UFIW-01S-20160805MS | 440-154772-1 | Water | 2016-08-05 | MS | Stage 2A | | | X | | X | | | | | |
| 440-154772-1 | UFIW-01S-20160805SD | 440-154772-1 | Water | 2016-08-05 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-154772-1 | UFIW-02S-20160805 | 440-154772-2 | Water | 2016-08-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154772-1 | UFIW-04S-20160805 | 440-154772-3 | Water | 2016-08-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154772-1 | UFIW-01S-20160805-FB | 440-154772-4 | Water | 2016-08-05 | FB | Stage 2A | | | X | | X | | | | | |
| 440-154850-1 | UFMW-03D-20160808 | 440-154850-1 | Water | 2016-08-08 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154850-1 | UFMW-03D-20160808MS | 440-154850-1 | Water | 2016-08-08 | MS | Stage 2A | | | | | X | | | | | |
| 440-154850-1 | UFMW-03D-20160808SD | 440-154850-1 | Water | 2016-08-08 | MSD | Stage 2A | | | | | X | | | | | |
| 440-154930-1 | UFMW-03I-20160808MS | 440-154930-1 | Water | 2016-08-08 | MS | Stage 2A | | | | | X | | | | | |
| 440-154930-1 | UFMW-03I-20160808SD | 440-154930-1 | Water | 2016-08-08 | MSD | Stage 2A | | | | | X | | | | | |
| 440-154930-1 | UFMW-03I-20160808 | 440-154930-1 | Water | 2016-08-08 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154930-1 | UFMW-03I-20160808-EB | 440-154930-2 | Water | 2016-08-08 | EB | Stage 2A | | | X | | X | | | | | |
| 440-154960-1 | UFMW-01D-20160809 | 440-154960-1 | Water | 2016-08-09 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154960-1 | UFMW-01D-20160809MS | 440-154960-1 | Water | 2016-08-09 | MS | Stage 2A | | | X | | X | | | | | |
| 440-154960-1 | UFMW-01D-20160809SD | 440-154960-1 | Water | 2016-08-09 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-154960-1 | UFMW-01I-20160809 | 440-154960-2 | Water | 2016-08-09 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-154960-1 | UFMW-01I-20160809-FD | 440-154960-3 | Water | 2016-08-09 | FD | Stage 2A | | | X | | X | | | | | |
| 440-154960-1 | UFMW-01I-20160809-EB | 440-154960-4 | Water | 2016-08-09 | EB | Stage 2A | | | X | | X | | | | | |
| 440-155089-1 | UFMW-01S-20160809 | 440-155089-1 | Water | 2016-08-09 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155247-1 | UFMW-02I-20160810 | 440-155247-1 | Water | 2016-08-10 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155247-1 | UFMW-02I-20160810-EB | 440-155247-2 | Water | 2016-08-10 | EB | Stage 2A | | | X | | X | | | | | |
| 440-155249-1 | UFMW-02D-20160810 | 440-155249-1 | Water | 2016-08-10 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155249-1 | UFMW-02D-20160810MS | 440-155249-1 | Water | 2016-08-10 | MS | Stage 2A | | | X | | X | | | | | |
| 440-155249-1 | UFMW-02D-20160810SD | 440-155249-1 | Water | 2016-08-10 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-155363-1 | UFMW-02S-20160810 | 440-155363-1 | Water | 2016-08-10 | NORM | Stage 2A | | | X | | X | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand | Total Organic Carbon | Calcium, Magnesium, Potassium, Sodium | Metals | Chromium VI | Mercury | Volatile Organic Compounds | pH | Total Organic Carbon | Volatile Fatty Acids |
|--------------|------------------------|----------------------|--------|-------------|---------|------------------|------------------------|----------------------|---------------------------------------|------------|-------------|-------------|----------------------------|-------------|----------------------|----------------------|
| | | | | | | | by SM5220D | by SM5310B | by SW-6010B | by SW-6020 | by SW-7199 | by SW-7471A | by SW-8260B | by SW-9045C | by SW-9060 | by VFA-IC |
| 440-155628-1 | UFIW-05D-20160815 | 440-155628-1 | Water | 2016-08-15 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155628-1 | UFIW-05I-20160815 | 440-155628-2 | Water | 2016-08-15 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155628-1 | UFIW-05I-20160815-FD | 440-155628-3 | Water | 2016-08-15 | FD | Stage 2A | | | X | | X | | | | | |
| 440-155688-1 | UFIW-06D-20160815 | 440-155688-1 | Water | 2016-08-15 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155688-1 | UFIW-06D-20160815MS | 440-155688-1 | Water | 2016-08-15 | MS | Stage 2A | | | X | | X | | | | | |
| 440-155688-1 | UFIW-06D-20160815SD | 440-155688-1 | Water | 2016-08-15 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-155688-1 | UFIW-05D-20160815-FB | 440-155688-2 | Water | 2016-08-15 | FB | Stage 2A | | | X | | X | | | | | |
| 440-155688-1 | UFIW-06D-20160815-EB | 440-155688-3 | Water | 2016-08-15 | EB | Stage 2A | | | X | | X | | | | | |
| 440-155759-1 | UFIW-06I-20160816 | 440-155759-1 | Water | 2016-08-16 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155759-1 | UFIW-06I-20160816MS | 440-155759-1 | Water | 2016-08-16 | MS | Stage 2A | | | X | | X | | | | | |
| 440-155759-1 | UFIW-06I-20160816SD | 440-155759-1 | Water | 2016-08-16 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-155761-1 | UFIW-06S-20160816 | 440-155761-1 | Water | 2016-08-16 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155766-1 | UFIW-07D-20160816 | 440-155766-1 | Water | 2016-08-16 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155766-1 | UFIW-07D-20160816MS | 440-155766-1 | Water | 2016-08-16 | MS | Stage 2A | | | X | | X | | | | | |
| 440-155766-1 | UFIW-06I-20160816-FB | 440-155766-2 | Water | 2016-08-16 | FB | Stage 2A | | | X | | X | | | | | |
| 440-155766-1 | UFIW-07D-20160816-EB | 440-155766-3 | Water | 2016-08-16 | EB | Stage 2A | | | X | | X | | | | | |
| 440-155766-1 | 440-155766-B-1-C MSDSD | 440-155766-B-1-C MSD | Water | 2016-08-16 | MSD | Stage 2A | | | | | X | | | | | |
| 440-155923-1 | UFIW-07I-20160817 | 440-155923-1 | Water | 2016-08-17 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155923-1 | UFIW-07I-20160817MS | 440-155923-1 | Water | 2016-08-17 | MS | Stage 2A | | | | | X | | | | | |
| 440-155923-1 | UFIW-07I-20160817SD | 440-155923-1 | Water | 2016-08-17 | MSD | Stage 2A | | | | | X | | | | | |
| 440-155923-1 | UFIW-07S-20160817 | 440-155923-2 | Water | 2016-08-17 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155923-1 | UFIW-08D-20160817 | 440-155923-3 | Water | 2016-08-17 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155966-1 | UFIW-08I-20160817 | 440-155966-1 | Water | 2016-08-17 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-155966-1 | UFIW-07I-20160817-FB | 440-155966-2 | Water | 2016-08-17 | FB | Stage 2A | | | X | | X | | | | | |
| 440-155966-1 | UFIW-07I-20160817-FBMS | 440-155966-2 | Water | 2016-08-17 | MS | Stage 2A | | | | | X | | | | | |
| 440-155966-1 | UFIW-07I-20160817-FBSD | 440-155966-2 | Water | 2016-08-17 | MSD | Stage 2A | | | | | X | | | | | |
| 440-155966-1 | UFIW-08I-20160817-EB | 440-155966-3 | Water | 2016-08-17 | EB | Stage 2A | | | X | | X | | | | | |
| 440-155966-1 | UFIW-08I-20160817-EBMS | 440-155966-3 | Water | 2016-08-17 | MS | Stage 2A | | | X | | | | | | | |
| 440-155966-1 | UFIW-08I-20160817-EBSD | 440-155966-3 | Water | 2016-08-17 | MSD | Stage 2A | | | X | | | | | | | |
| 440-156054-1 | UFMW-04D-20160818 | 440-156054-1 | Water | 2016-08-18 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156054-1 | UFMW-04I-20160818 | 440-156054-2 | Water | 2016-08-18 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156054-1 | UFMW-04I-20160818-FD | 440-156054-3 | Water | 2016-08-18 | FD | Stage 2A | | | X | | X | | | | | |
| 440-156076-1 | UFMW-04D-20160818-FB | 440-156076-1 | Water | 2016-08-18 | FB | Stage 2A | | | X | | X | | | | | |
| 440-156076-1 | UFMW-04D-20160818-FBMS | 440-156076-1 | Water | 2016-08-18 | MS | Stage 2A | | | | | X | | | | | |
| 440-156076-1 | UFMW-04D-20160818-FBSD | 440-156076-1 | Water | 2016-08-18 | MSD | Stage 2A | | | | | X | | | | | |
| 440-156076-1 | UFMW-04I-20160818-EB | 440-156076-2 | Water | 2016-08-18 | EB | Stage 2A | | | X | | X | | | | | |
| 440-156173-1 | UFMW-06S-20160819 | 440-156173-1 | Water | 2016-08-19 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156173-1 | UFMW-06S-20160819MS | 440-156173-1 | Water | 2016-08-19 | MS | Stage 2A | | | X | | X | | | | | |
| 440-156173-1 | UFMW-06S-20160819SD | 440-156173-1 | Water | 2016-08-19 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-156174-1 | UFIW-05S-20160819 | 440-156174-1 | Water | 2016-08-19 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156174-1 | UFIW-08S-20160819 | 440-156174-2 | Water | 2016-08-19 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156174-1 | UFMW-04S-20160819 | 440-156174-3 | Water | 2016-08-19 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156174-1 | UFMW-05S-20160819 | 440-156174-4 | Water | 2016-08-19 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156174-1 | UFMW-05S-20160819MS | 440-156174-4 | Water | 2016-08-19 | MS | Stage 2A | | | X | | | | | | | |
| 440-156174-1 | UFMW-05S-20160819SD | 440-156174-4 | Water | 2016-08-19 | MSD | Stage 2A | | | X | | | | | | | |
| 440-156174-1 | UFIW-05S-20160819-FB | 440-156174-5 | Water | 2016-08-19 | FB | Stage 2A | | | X | | X | | | | | |
| 440-156174-1 | UFMW-06S-20160819-EB | 440-156174-6 | Water | 2016-08-19 | EB | Stage 2A | | | X | | X | | | | | |
| 440-156251-1 | UFMW-06I-20160822 | 440-156251-1 | Water | 2016-08-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156251-1 | UFMW-06I-20160822MS | 440-156251-1 | Water | 2016-08-22 | MS | Stage 2A | | | | | X | | | | | |
| 440-156251-1 | UFMW-06I-20160822SD | 440-156251-1 | Water | 2016-08-22 | MSD | Stage 2A | | | | | X | | | | | |
| 440-156251-1 | UFMW-06D-20160822 | 440-156251-2 | Water | 2016-08-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156258-1 | UFMW-05D-20160822 | 440-156258-1 | Water | 2016-08-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156258-1 | UFMW-05D-20160822MS | 440-156258-1 | Water | 2016-08-22 | MS | Stage 2A | | | | | X | | | | | |
| 440-156258-1 | UFMW-05D-20160822SD | 440-156258-1 | Water | 2016-08-22 | MSD | Stage 2A | | | | | X | | | | | |
| 440-156258-1 | UFMW-05D-20160822-EB | 440-156258-2 | Water | 2016-08-22 | EB | Stage 2A | | | X | | X | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand | Total Organic Carbon | Calcium, Magnesium, Potassium, Sodium | Metals | Chromium VI | Mercury | Volatile Organic Compounds | pH | Total Organic Carbon | Volatile Fatty Acids |
|--------------|----------------------|---------------|--------|-------------|---------|------------------|------------------------|----------------------|---------------------------------------|------------|-------------|-------------|----------------------------|-------------|----------------------|----------------------|
| | | | | | | | by SM5220D | by SM5310B | by SW-6010B | by SW-6020 | by SW-7199 | by SW-7471A | by SW-8260B | by SW-9045C | by SW-9060 | by VFA-IC |
| 440-156318-1 | UFMW-05I-20160823 | 440-156318-1 | Water | 2016-08-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156318-1 | E2-1-20160823 | 440-156318-2 | Water | 2016-08-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156318-1 | E2-1-20160823MS | 440-156318-2 | Water | 2016-08-23 | MS | Stage 2A | | | X | | X | | | | | |
| 440-156318-1 | E2-1-20160823SD | 440-156318-2 | Water | 2016-08-23 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-156318-1 | E2-2-20160823 | 440-156318-3 | Water | 2016-08-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-156745-1 | UFIW-06I-20160826 | 440-156745-1 | Water | 2016-08-26 | NORM | Stage 2A | | | | | | | | | | X |
| 440-156745-1 | UFIW-06S-20160826 | 440-156745-2 | Water | 2016-08-26 | NORM | Stage 2A | | | | | | | | | | X |
| 440-159110-1 | UFMW-03D-20160920 | 440-159110-1 | Water | 2016-09-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159110-1 | UFMW-03D-20160920 | I209-09 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-01S-20160920 | 440-159117-1 | Water | 2016-09-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159117-1 | UFMW-01S-20160920MS | 440-159117-1 | Water | 2016-09-20 | MS | Stage 2A | | | X | | X | | | | | |
| 440-159117-1 | UFMW-01S-20160920SD | 440-159117-1 | Water | 2016-09-20 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-159117-1 | UFMW-01I-20160920 | 440-159117-2 | Water | 2016-09-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159117-1 | UFMW-01D-20160920 | 440-159117-3 | Water | 2016-09-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159117-1 | UFMW-02S-20160920 | 440-159117-4 | Water | 2016-09-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159117-1 | UFMW-02I-20160920 | 440-159117-5 | Water | 2016-09-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159117-1 | UFMW-02D-20160920 | 440-159117-6 | Water | 2016-09-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159117-1 | UFMW-03I-20160920 | 440-159117-7 | Water | 2016-09-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159117-1 | UFMW-03I-20160920-FD | 440-159117-8 | Water | 2016-09-20 | FD | Stage 2A | | | X | | X | | | | | |
| 440-159117-1 | UFMW-01S-20160920 | I209-01 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-01S-20160920 | I209-01JR | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-01I-20160920 | I209-02 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-01D-20160920 | I209-03 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-02S-20160920 | I209-04I | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-02S-20160920 | I209-04JR | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-02I-20160920 | I209-05 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-02D-20160920 | I209-06 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-03I-20160920 | I209-07 | Water | 2016-09-20 | NORM | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-03I-20160920-MS | I209-07M | Water | 2016-09-20 | MS | Stage 2A | | | | | | | | | | |
| 440-159117-1 | UFMW-03I-20160920-FD | I209-08 | Water | 2016-09-20 | FD | Stage 2A | | | | | | | | | | |
| 440-159260-1 | UFMW-03D-20160921 | 440-159260-1 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159260-1 | UFMW-03D-20160921MS | 440-159260-1 | Water | 2016-09-21 | MS | Stage 2A | | | X | | | | | | | |
| 440-159260-1 | UFMW-03D-20160921SD | 440-159260-1 | Water | 2016-09-21 | MSD | Stage 2A | | | X | | | | | | | |
| 440-159260-1 | UFMW-03D-20160921 | I210-01 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-01S-20160921 | 440-159262-1 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159262-1 | UFMW-01I-20160921 | 440-159262-2 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159262-1 | UFMW-01I-20160921MS | 440-159262-2 | Water | 2016-09-21 | MS | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-01I-20160921SD | 440-159262-2 | Water | 2016-09-21 | MSD | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-01D-20160921 | 440-159262-3 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159262-1 | UFMW-02S-20160921 | 440-159262-4 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159262-1 | UFMW-02I-20160921 | 440-159262-5 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159262-1 | UFMW-02D-20160921 | 440-159262-6 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159262-1 | UFMW-03I-20160921 | 440-159262-7 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159262-1 | UFMW-03I-20160921MS | 440-159262-7 | Water | 2016-09-21 | MS | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-03I-20160921SD | 440-159262-7 | Water | 2016-09-21 | MSD | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-03I-20160921-FD | 440-159262-8 | Water | 2016-09-21 | FD | Stage 2A | | | X | | X | | | | | |
| 440-159262-1 | UFMW-01S-20160921 | I210-02 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-01S-20160921 | I210-02JR | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-01I-20160921 | I210-03 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-01D-20160921 | I210-04 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-02S-20160921 | I210-05I | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-02S-20160921 | I210-05IR | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-02I-20160921 | I210-06 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-02D-20160921 | I210-07 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159262-1 | UFMW-03I-20160921 | I210-08 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand by SM5220D | Total Organic Carbon by SM5310B | Calcium, Magnesium, Potassium, Sodium by SW-6010B | Metals by SW-6020 | Chromium VI by SW-7199 | Mercury by SW-7471A | Volatile Organic Compounds by SW-8260B | pH by SW-9045C | Total Organic Carbon by SW-9060 | Volatile Fatty Acids by VFA-IC |
|--------------|------------------------|-----------------|--------|-------------|---------|------------------|--------------------------------------|------------------------------------|--|----------------------|---------------------------|------------------------|---|-------------------|------------------------------------|-----------------------------------|
| 440-159262-1 | UFMW-03I-20160921-FD | I210-09 | Water | 2016-09-21 | FD | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01S-20160921B | 440-159323-1 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159323-1 | UFMW-01S-20160921MS | 440-159323-1 | Water | 2016-09-21 | MS | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01S-20160921SD | 440-159323-1 | Water | 2016-09-21 | MSD | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01I-20160921B | 440-159323-2 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159323-1 | UFMW-01I-20160921BMS | 440-159323-2 | Water | 2016-09-21 | MS | Stage 2A | | | X | | | | | | | |
| 440-159323-1 | UFMW-01I-20160921BSD | 440-159323-2 | Water | 2016-09-21 | MSD | Stage 2A | | | X | | | | | | | |
| 440-159323-1 | UFMW-01D-20160921B | 440-159323-3 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159323-1 | UFMW-01D-20160921MS | 440-159323-3MS | Water | 2016-09-21 | MS | Stage 2A | | | X | | X | | | | | |
| 440-159323-1 | UFMW-01D-20160921SD | 440-159323-3MSD | Water | 2016-09-21 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-159323-1 | UFMW-02I-20160921B | 440-159323-4 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159323-1 | UFMW-02D-20160921B | 440-159323-5 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159323-1 | UFMW-03I-20160921B | 440-159323-6 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159323-1 | UFMW-03D-20160921B | 440-159323-7 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159323-1 | UFMW-01I-20160921-FD | 440-159323-8 | Water | 2016-09-21 | FD | Stage 2A | | | X | | X | | | | | |
| 440-159323-1 | UFMW-01S-20160921B | I210-10 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01I-20160921B | I210-11 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01D-20160921B | I210-12 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01D-20160921MS | I210-12M | Water | 2016-09-21 | MS | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01D-20160921B | I210-12R | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01D-20160921MS | I210-12RM | Water | 2016-09-21 | MS | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-02I-20160921B | I210-13 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-02D-20160921B | I210-14 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-03I-20160921B | I210-15 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-03D-20160921B | I210-16 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01I-20160921-FD | I210-17 | Water | 2016-09-21 | FD | Stage 2A | | | | | | | | | | |
| 440-159323-1 | UFMW-01I-20160921-FDMS | I210-17M | Water | 2016-09-21 | MS | Stage 2A | | | | | | | | | | |
| 440-159324-1 | UFMW-02S-20160921B | 440-159324-1 | Water | 2016-09-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159324-1 | UFMW-02S-20160921B | I210-18 | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159324-1 | UFMW-02S-20160921B | I210-18I | Water | 2016-09-21 | NORM | Stage 2A | | | | | | | | | | |
| 440-159419-1 | UFMW-03I-20160922 | 440-159419-1 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159419-1 | UFMW-01I-20160922 | 440-159419-2 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159419-1 | UFMW-02S-20160922 | 440-159419-3 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159419-1 | UFMW-02I-20160922 | 440-159419-4 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159419-1 | UFMW-02I-20160922-FD | 440-159419-5 | Water | 2016-09-22 | FD | Stage 2A | | | X | | X | | | | | |
| 440-159419-1 | UFMW-02D-20160922 | 440-159419-6 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159419-1 | UFMW-02D-20160922MS | 440-159419-6 | Water | 2016-09-22 | MS | Stage 2A | | | X | | X | | | | | |
| 440-159419-1 | UFMW-02D-20160922SD | 440-159419-6 | Water | 2016-09-22 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-159419-1 | UFMW-01S-20160922 | 440-159419-7 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159419-1 | UFMW-03D-20160922 | 440-159419-8 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159419-1 | UFMW-03I-20160922 | I211-01 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159419-1 | UFMW-01I-20160922 | I211-02 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159419-1 | UFMW-02S-20160922 | I211-03I | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159419-1 | UFMW-02I-20160922 | I211-04 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159419-1 | UFMW-02I-20160922-FD | I211-05 | Water | 2016-09-22 | FD | Stage 2A | | | | | | | | | | |
| 440-159419-1 | UFMW-02D-20160922 | I211-06 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159419-1 | UFMW-02D-20160922MS | I211-06M | Water | 2016-09-22 | MS | Stage 2A | | | | | | | | | | |
| 440-159419-1 | UFMW-01S-20160922 | I211-07 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159419-1 | UFMW-01S-20160922 | I211-07I | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159419-1 | UFMW-03D-20160922 | I211-08 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159420-1 | UFMW-01D-20160922 | 440-159420-1 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159420-1 | UFMW-01D-20160922 | I211-09 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159514-1 | UFMW-01S-20160922B | 440-159514-1 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159514-1 | UFMW-01I-20160922B | 440-159514-2 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159514-1 | UFMW-02S-20160922B | 440-159514-3 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand | Total Organic Carbon | Calcium, Magnesium, Potassium, Sodium | Metals | Chromium VI | Mercury | Volatile Organic Compounds | pH | Total Organic Carbon | Volatile Fatty Acids |
|--------------|------------------------|-----------------|--------|-------------|---------|------------------|------------------------|----------------------|---------------------------------------|------------|-------------|-------------|----------------------------|-------------|----------------------|----------------------|
| | | | | | | | by SM5220D | by SM5310B | by SW-6010B | by SW-6020 | by SW-7199 | by SW-7471A | by SW-8260B | by SW-9045C | by SW-9060 | by VFA-IC |
| 440-159514-1 | UFMW-02I-20160922B | 440-159514-4 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159514-1 | UFMW-03I-20160922B | 440-159514-5 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159514-1 | UFMW-03D-20160922B | 440-159514-6 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159514-1 | UFMW-01D-20160922B | 440-159514-7 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159514-1 | UFMW-01I-20160922-FD | 440-159514-8 | Water | 2016-09-22 | FD | Stage 2A | | | X | | X | | | | | |
| 440-159514-1 | UFMW-01I-20160922-FDMS | 440-159514-8 | Water | 2016-09-22 | MS | Stage 2A | | | X | | | | | | | |
| 440-159514-1 | UFMW-01I-20160922-FDSD | 440-159514-8 | Water | 2016-09-22 | MSD | Stage 2A | | | X | | | | | | | |
| 440-159514-1 | UFMW-01S-20160922B | I225-01 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159514-1 | UFMW-01S-20160922B | I225-01I | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159514-1 | UFMW-01I-20160922B | I225-02 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159514-1 | UFMW-02S-20160922B | I225-03I | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159514-1 | UFMW-02I-20160922B | I225-04 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159514-1 | UFMW-03I-20160922B | I225-05 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159514-1 | UFMW-03D-20160922B | I225-06 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159514-1 | UFMW-01D-20160922B | I225-07 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159514-1 | UFMW-01I-20160922-FD | I225-08 | Water | 2016-09-22 | FD | Stage 2A | | | | | | | | | | |
| 440-159520-1 | UFMW-02D-20160922B | 440-159520-1 | Water | 2016-09-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159520-1 | UFMW-02D-20160922BMS | 440-159520-1 | Water | 2016-09-22 | MS | Stage 2A | | | | | | | | | | |
| 440-159520-1 | UFMW-02D-20160922BSD | 440-159520-1 | Water | 2016-09-22 | MSD | Stage 2A | | | | | | | | | | |
| 440-159520-1 | UFMW-02D-20160922B | I223-01 | Water | 2016-09-22 | NORM | Stage 2A | | | | | | | | | | |
| 440-159565-1 | UFMW-01S-20160923 | 440-159565-1 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159565-1 | UFMW-01D-20160923 | 440-159565-2 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159565-1 | UFMW-01D-20160923MS | 440-159565-2MS | Water | 2016-09-23 | MS | Stage 2A | | | X | | X | | | | | |
| 440-159565-1 | UFMW-01D-20160923SD | 440-159565-2MSD | Water | 2016-09-23 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-159565-1 | UFMW-02S-20160923 | 440-159565-3 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159565-1 | UFMW-02I-20160923 | 440-159565-4 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159565-1 | UFMW-02D-20160923 | 440-159565-5 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159565-1 | UFMW-03I-20160923 | 440-159565-6 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159565-1 | UFMW-03D-20160923 | 440-159565-7 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159565-1 | UFMW-03I-20160923-FD | 440-159565-8 | Water | 2016-09-23 | FD | Stage 2A | | | X | | X | | | | | |
| 440-159565-1 | UFMW-01S-20160923 | I222-01 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159565-1 | UFMW-01S-20160923 | I222-01I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159565-1 | UFMW-01D-20160923 | I222-02 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159565-1 | UFMW-01D-20160923MS | I222-02M | Water | 2016-09-23 | MS | Stage 2A | | | | | | | | | | |
| 440-159565-1 | UFMW-02S-20160923 | I222-03I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159565-1 | UFMW-02I-20160923 | I222-04 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159565-1 | UFMW-02D-20160923 | I222-05 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159565-1 | UFMW-03I-20160923 | I222-06 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159565-1 | UFMW-03D-20160923 | I222-07 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159565-1 | UFMW-03I-20160923-FD | I222-08 | Water | 2016-09-23 | FD | Stage 2A | | | | | | | | | | |
| 440-159573-1 | UFMW-01I-20160923 | 440-159573-1 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159573-1 | UFMW-01I-20160923 | I221-01 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFMW-01S-20160923B | 440-159613-1 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFIW-01I-20160923 | 440-159613-10 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFIW-01D-20160923 | 440-159613-11 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFIW-02S-20160923 | 440-159613-12 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFIW-02I-20160923 | 440-159613-13 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFIW-02D-20160923 | 440-159613-14 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFIW-03I-20160923 | 440-159613-15 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFIW-04S-20160923 | 440-159613-16 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFIW-04I-20160923 | 440-159613-17 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFIW-04D-20160923 | 440-159613-18 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFIW-04D-20160923MS | 440-159613-18 | Water | 2016-09-23 | MS | Stage 2A | | | X | | | | | | | |
| 440-159613-1 | UFIW-04D-20160923SD | 440-159613-18 | Water | 2016-09-23 | MSD | Stage 2A | | | X | | | | | | | |
| 440-159613-1 | UFIW-04I-20160923-FD | 440-159613-19 | Water | 2016-09-23 | FD | Stage 2A | | | X | | X | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand | Total Organic Carbon | Calcium, Magnesium, Potassium, Sodium | Metals | Chromium VI | Mercury | Volatile Organic Compounds | pH | Total Organic Carbon | Volatile Fatty Acids |
|--------------|----------------------|-----------------|--------|-------------|---------|------------------|------------------------|----------------------|---------------------------------------|------------|-------------|-------------|----------------------------|-------------|----------------------|----------------------|
| | | | | | | | by SM5220D | by SM5310B | by SW-6010B | by SW-6020 | by SW-7199 | by SW-7471A | by SW-8260B | by SW-9045C | by SW-9060 | by VFA-IC |
| 440-159613-1 | UFMW-01I-20160923B | 440-159613-2 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFMW-01I-20160923MS | 440-159613-2 | Water | 2016-09-23 | MS | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFMW-01I-20160923SD | 440-159613-2 | Water | 2016-09-23 | MSD | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-04S-20160923-FD | 440-159613-20 | Water | 2016-09-23 | FD | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFMW-01D-20160923B | 440-159613-3 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFMW-02S-20160923B | 440-159613-4 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFMW-02I-20160923B | 440-159613-5 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFMW-02D-20160923B | 440-159613-6 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFMW-03I-20160923B | 440-159613-7 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFMW-03D-20160923B | 440-159613-8 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFMW-03D-20160923MS | 440-159613-8 | Water | 2016-09-23 | MS | Stage 2A | | | | | X | | | | | |
| 440-159613-1 | UFMW-03D-20160923SD | 440-159613-8 | Water | 2016-09-23 | MSD | Stage 2A | | | | | X | | | | | |
| 440-159613-1 | UFIW-01S-20160923 | 440-159613-9 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159613-1 | UFMW-01S-20160923B | I226-01 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFMW-01I-20160923B | I226-02 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFMW-01I-20160923MS | I226-02M | Water | 2016-09-23 | MS | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFMW-01D-20160923B | I226-03 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFMW-02S-20160923B | I226-04I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFMW-02I-20160923B | I226-05 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFMW-02D-20160923B | I226-06 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFMW-03I-20160923B | I226-07 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFMW-03D-20160923B | I226-08 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-01S-20160923 | I226-09 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-01S-20160923 | I226-09I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-01I-20160923 | I226-10 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-01D-20160923 | I226-11 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-02S-20160923 | I226-12 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-02S-20160923 | I226-12I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-02I-20160923 | I226-13 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-02D-20160923 | I226-14 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-03I-20160923 | I226-15 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-04S-20160923 | I226-16 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-04I-20160923 | I226-17 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-04D-20160923 | I226-18 | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-04D-20160923 | I226-18I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-04I-20160923-FD | I226-19 | Water | 2016-09-23 | FD | Stage 2A | | | | | | | | | | |
| 440-159613-1 | UFIW-04S-20160923-FD | I226-20 | Water | 2016-09-23 | FD | Stage 2A | | | | | | | | | | |
| 440-159616-1 | UFIW-03S-20160923 | 440-159616-1 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159616-1 | UFIW-03S-20160923MS | 440-159616-1 | Water | 2016-09-23 | MS | Stage 2A | | | X | | | | | | | |
| 440-159616-1 | UFIW-03S-20160923SD | 440-159616-1 | Water | 2016-09-23 | MSD | Stage 2A | | | X | | | | | | | |
| 440-159616-1 | UFIW-03D-20160923 | 440-159616-2 | Water | 2016-09-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-159616-1 | UFIW-03D-20160923MS | 440-159616-2 | Water | 2016-09-23 | MS | Stage 2A | | | | | | | | | | |
| 440-159616-1 | UFIW-03D-20160923SD | 440-159616-2 | Water | 2016-09-23 | MSD | Stage 2A | | | | | | | | | | |
| 440-159616-1 | UFIW-03S-20160923 | I224-01I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-159616-1 | UFIW-03D-20160923 | I224-02I | Water | 2016-09-23 | NORM | Stage 2A | | | | | | | | | | |
| 440-164756-1 | E1-1-20161104 | 440-164756-1 | Water | 2016-11-04 | NORM | Stage 2A | | | | | X | | | | | |
| 440-164756-1 | UFMW-04D-20161104 | 440-164756-10 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFMW-05S-20161104 | 440-164756-11 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFMW-05I-20161104 | 440-164756-12 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-08I-20161104 | 440-164756-15 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-08I-20161104-FD | 440-164756-16 | Water | 2016-11-04 | FD | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-08D-20161104 | 440-164756-17 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-07S-20161104 | 440-164756-18 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-07I-20161104 | 440-164756-19 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-07I-20161104MS | 440-164756-19MS | Water | 2016-11-04 | MS | Stage 2A | | | | | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand by SM5220D | Total Organic Carbon by SM5310B | Calcium, Magnesium, Potassium, Sodium by SW-6010B | Metals by SW-6020 | Chromium VI by SW-7199 | Mercury by SW-7471A | Volatile Organic Compounds by SW-8260B | pH by SW-9045C | Total Organic Carbon by SW-9060 | Volatile Fatty Acids by VFA-IC |
|--------------|-----------------------------|------------------|--------|-------------|---------|------------------|--------------------------------------|------------------------------------|--|----------------------|---------------------------|------------------------|---|-------------------|------------------------------------|-----------------------------------|
| 440-164756-1 | UFIW-07I-20161104MSD | 440-164756-19MSD | Water | 2016-11-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-164756-1 | E1-2-20161104 | 440-164756-2 | Water | 2016-11-04 | NORM | Stage 2A | | | | | X | | | | | |
| 440-164756-1 | UFIW-07D-20161104 | 440-164756-20 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-06S-20161104 | 440-164756-21 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-06I-20161104 | 440-164756-22 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-06D-20161104 | 440-164756-23 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-06D-20161104MS | 440-164756-23MS | Water | 2016-11-04 | MS | Stage 2A | | | | | | | | | | |
| 440-164756-1 | UFIW-06D-20161104MSD | 440-164756-23MSD | Water | 2016-11-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-164756-1 | UFIW-05S-20161104 | 440-164756-24 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-05I-20161104 | 440-164756-25 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-05D-20161104 | 440-164756-26 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFIW-05D-20161104MS | 440-164756-26MS | Water | 2016-11-04 | MS | Stage 2A | | | X | | | | | | | |
| 440-164756-1 | UFIW-05D-20161104MSD | 440-164756-26MSD | Water | 2016-11-04 | MSD | Stage 2A | | | X | | | | | | | |
| 440-164756-1 | E1-2-20161104-FD | 440-164756-3 | Water | 2016-11-04 | FD | Stage 2A | | | | | X | | | | | |
| 440-164756-1 | E1-3-20161104 | 440-164756-4 | Water | 2016-11-04 | NORM | Stage 2A | | | | | X | | | | | |
| 440-164756-1 | E1-3-20161104MS | 440-164756-4MS | Water | 2016-11-04 | MS | Stage 2A | | | | | X | | | | | |
| 440-164756-1 | E1-3-20161104MSD | 440-164756-4MSD | Water | 2016-11-04 | MSD | Stage 2A | | | | | X | | | | | |
| 440-164756-1 | UFMW-06S-20161104 | 440-164756-5 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFMW-06S-20161104MS | 440-164756-5MS | Water | 2016-11-04 | MS | Stage 2A | | | X | | | | | | | |
| 440-164756-1 | UFMW-06S-20161104MSD | 440-164756-5MSD | Water | 2016-11-04 | MSD | Stage 2A | | | X | | | | | | | |
| 440-164756-1 | UFMW-06D-20161104 | 440-164756-6 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFMW-06D-20161104MS | 440-164756-6MS | Water | 2016-11-04 | MS | Stage 2A | | | | | X | | | | | |
| 440-164756-1 | UFMW-06D-20161104MSD | 440-164756-6MSD | Water | 2016-11-04 | MSD | Stage 2A | | | | | X | | | | | |
| 440-164756-1 | UFMW-06I-20161104 | 440-164756-7 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFMW-04S-20161104 | 440-164756-8 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-1 | UFMW-04S-20161104MS | 440-164756-8MS | Water | 2016-11-04 | MS | Stage 2A | | | | | | | | | | |
| 440-164756-1 | UFMW-04S-20161104MSD | 440-164756-8MSD | Water | 2016-11-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-164756-1 | UFMW-04I-20161104 | 440-164756-9 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-2 | UFMW-05D-20161104 | 440-164756-13 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-164756-2 | UFIW-08-20161104 | 440-164756-14 | Water | 2016-11-04 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167308-1 | CTIW-01D-0.5-20161128 | 440-167308-1 | Solid | 2016-11-28 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167308-1 | CTIW-01D-5.0-20161128 | 440-167308-2 | Solid | 2016-11-28 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167308-1 | CTIW-01D-10.0-20161128 | 440-167308-3 | Solid | 2016-11-28 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167308-1 | CTIW-01D-15.0-20161128 | 440-167308-4 | Solid | 2016-11-28 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167308-1 | CTIW-01D-20.0-20161128 | 440-167308-5 | Solid | 2016-11-28 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167308-1 | CTIW-01D-10.0-20161128-EB | 440-167308-6 | Water | 2016-11-28 | EB | Stage 2A | | | X | | X | | | | | |
| 440-167511-1 | CTIW-01D-25.0-20161129 | 440-167511-1 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167511-1 | CTIW-01D-25.0-20161129MS | 440-167511-1 | Solid | 2016-11-29 | MS | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-25.0-20161129SD | 440-167511-1 | Solid | 2016-11-29 | MSD | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-GW-36.0-20161129 | 440-167511-10 | Water | 2016-11-29 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167511-1 | CTIW-01D-GW-36.0-20161129MS | 440-167511-10 | Water | 2016-11-29 | MS | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-GW-36.0-20161129SD | 440-167511-10 | Water | 2016-11-29 | MSD | Stage 2A | | | X | | | | | | | |
| 440-167511-1 | CTIW-01D-35.0-20161129-EB | 440-167511-11 | Water | 2016-11-29 | EB | Stage 2A | | | X | | X | | | | | |
| 440-167511-1 | CTIW-01D-25.0-20161129-FD | 440-167511-2 | Solid | 2016-11-29 | FD | Stage 2A | | | X | | X | | | | | |
| 440-167511-1 | CTIW-01D-30.0-20161129 | 440-167511-3 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167511-1 | CTIW-01D-35.0-20161129 | 440-167511-4 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167511-1 | CTIW-01D-40.0-20161129 | 440-167511-5 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167511-1 | CTIW-01D-45.0-20161129 | 440-167511-6 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167511-1 | CTIW-01D-50.0-20161129 | 440-167511-7 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167511-1 | CTIW-01D-55.0-20161129 | 440-167511-8 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167511-1 | CTIW-01D-60.0-20161129 | 440-167511-9 | Solid | 2016-11-29 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-0.5-20161130 | 440-167620-1 | Solid | 2016-11-30 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-0.5-20161130MS | 440-167620-1 | Solid | 2016-11-30 | MS | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-0.5-20161130SD | 440-167620-1 | Solid | 2016-11-30 | MSD | Stage 2A | | | | | | | | | | |
| 440-167620-1 | CTMW-03-GW-36.0-20161130 | 440-167620-10 | Water | 2016-11-30 | NORM | Stage 2A | | | X | | X | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand by SM5220D | Total Organic Carbon by SM5310B | Calcium, Magnesium, Potassium, Sodium by SW-6010B | Metals by SW-6020 | Chromium VI by SW-7199 | Mercury by SW-7471A | Volatile Organic Compounds by SW-8260B | pH by SW-9045C | Total Organic Carbon by SW-9060 | Volatile Fatty Acids by VFA-IC |
|--------------|----------------------------|-----------------|--------|-------------|---------|------------------|--------------------------------------|------------------------------------|--|----------------------|---------------------------|------------------------|---|-------------------|------------------------------------|-----------------------------------|
| 440-167620-1 | CTMW-03-GW-36.0-20161130MS | 440-167620-10 | Water | 2016-11-30 | MS | Stage 2A | | | X | | | | | | | |
| 440-167620-1 | CTMW-03-GW-36.0-20161130SD | 440-167620-10 | Water | 2016-11-30 | MSD | Stage 2A | | | X | | | | | | | |
| 440-167620-1 | CTMW-03-5.0-20161130 | 440-167620-2 | Solid | 2016-11-30 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-5.0-20161130MS | 440-167620-2 | Solid | 2016-11-30 | MS | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-5.0-20161130SD | 440-167620-2 | Solid | 2016-11-30 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-10.0-20161130 | 440-167620-3 | Solid | 2016-11-30 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-15.0-20161130 | 440-167620-4 | Solid | 2016-11-30 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-20.0-20161130 | 440-167620-5 | Solid | 2016-11-30 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-30.0-20161130 | 440-167620-6 | Solid | 2016-11-30 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-30.0-20161130-FD | 440-167620-7 | Solid | 2016-11-30 | FD | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-35.0-20161130 | 440-167620-8 | Solid | 2016-11-30 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-25.0-20161130-EB | 440-167620-9 | Water | 2016-11-30 | EB | Stage 2A | | | X | | X | | | | | |
| 440-167620-1 | CTMW-03-25.0-20161130-EBMS | 440-167620-9 | Water | 2016-11-30 | MS | Stage 2A | | | | | X | | | | | |
| 440-167620-1 | CTMW-03-25.0-20161130-EBSD | 440-167620-9 | Water | 2016-11-30 | MSD | Stage 2A | | | | | X | | | | | |
| 440-167620-2 | CTMW-03-25.0-20161130 | 440-167620-11 | Solid | 2016-11-30 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167766-1 | CTMW-03-40.0-20161201 | 440-167766-1 | Solid | 2016-12-01 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167766-1 | CTIW-01S-21.0-20161201 | 440-167766-11 | Solid | 2016-12-01 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167766-1 | CTIW-01S-21.0-20161201-FD | 440-167766-12 | Solid | 2016-12-01 | FD | Stage 2A | | | X | | X | | | | | |
| 440-167766-1 | CTMW-03-60.0-20161201-EB | 440-167766-14 | Water | 2016-12-01 | EB | Stage 2A | | | X | | X | | | | | |
| 440-167766-1 | CTMW-03-45.0-20161201 | 440-167766-2 | Solid | 2016-12-01 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167766-1 | CTMW-03-50.0-20161201 | 440-167766-3 | Solid | 2016-12-01 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167766-1 | CTMW-03-55.0-20161201 | 440-167766-4 | Solid | 2016-12-01 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-167766-1 | CTMW-03-55.0-20161201MS | 440-167766-4 | Solid | 2016-12-01 | MS | Stage 2A | | | | | X | | | | | |
| 440-167766-1 | CTMW-03-55.0-20161201MS | 440-167766-4MS | Solid | 2016-12-01 | MS | Stage 2A | | | X | | X | | | | | |
| 440-167766-1 | CTMW-03-55.0-20161201SD | 440-167766-4MSD | Solid | 2016-12-01 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-167766-2 | CTMW-03-60.0-20161201 | 440-167766-13 | Solid | 2016-12-01 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206 | 440-168362-1 | Water | 2016-12-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206MS | 440-168362-1 | Water | 2016-12-06 | MS | Stage 2A | | | X | | | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206SD | 440-168362-1 | Water | 2016-12-06 | MSD | Stage 2A | | | X | | | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206-FD | 440-168362-2 | Water | 2016-12-06 | FD | Stage 2A | | | X | | X | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206-EB | 440-168362-3 | Water | 2016-12-06 | EB | Stage 2A | | | X | | X | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206-EBMS | 440-168362-3 | Water | 2016-12-06 | MS | Stage 2A | | | | | X | | | | | |
| 440-168362-1 | CTIW-01D-GW-20161206-EBSD | 440-168362-3 | Water | 2016-12-06 | MSD | Stage 2A | | | | | X | | | | | |
| 440-168362-1 | CTIW-01S-GW-20161206 | 440-168362-4 | Water | 2016-12-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-168532-1 | CTMW-03S-GW-20161207 | 440-168532-1 | Water | 2016-12-07 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-168532-1 | CTMW-03D-GW-20161207 | 440-168532-2 | Water | 2016-12-07 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-168532-1 | CTMW-03D-GW-20161207MS | 440-168532-2 | Water | 2016-12-07 | MS | Stage 2A | | | X | | X | | | | | |
| 440-168532-1 | CTMW-03D-GW-20161207SD | 440-168532-2 | Water | 2016-12-07 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-168532-1 | CTMW-03D-GW-20161207-EB | 440-168532-3 | Water | 2016-12-07 | EB | Stage 2A | | | X | | X | | | | | |
| 440-174831-1 | UFMW-01S-20170126 | 440-174831-1 | Water | 2017-01-26 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | E2-3-20170126 | 440-174831-10 | Water | 2017-01-26 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | 20170126-EB-VC | 440-174831-11 | Water | 2017-01-26 | EB | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | 20170126-FB | 440-174831-12 | Water | 2017-01-26 | FB | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | E2-1-20170126 | 440-174831-13 | Water | 2017-01-26 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | E2-1-20170126MS | 440-174831-13 | Water | 2017-01-26 | MS | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | E2-1-20170126SD | 440-174831-13 | Water | 2017-01-26 | MSD | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | E2-2-20170126-EB | 440-174831-14 | Water | 2017-01-26 | EB | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | UFMW-02S-20170126 | 440-174831-2 | Water | 2017-01-26 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | UFIW-01S-20170126 | 440-174831-3 | Water | 2017-01-26 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | UFIW-02S-20170126 | 440-174831-4 | Water | 2017-01-26 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | UFIW-03S-20170126 | 440-174831-5 | Water | 2017-01-26 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | UFIW-04S-20170126 | 440-174831-6 | Water | 2017-01-26 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | E2-5-20170126 | 440-174831-7 | Water | 2017-01-26 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | E2-5-20170126-DUP | 440-174831-8 | Water | 2017-01-26 | FD | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | E2-5-20170126-DUPMS | 440-174831-8 | Water | 2017-01-26 | MS | Stage 2A | | | | | X | | | | | |

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| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand by SM5220D | Total Organic Carbon by SM5310B | Calcium, Magnesium, Potassium, Sodium by SW-6010B | Metals by SW-6020 | Chromium VI by SW-7199 | Mercury by SW-7471A | Volatile Organic Compounds by SW-8260B | pH by SW-9045C | Total Organic Carbon by SW-9060 | Volatile Fatty Acids by VFA-IC |
|--------------|---------------------------|------------------|--------|-------------|---------|------------------|--------------------------------------|------------------------------------|--|----------------------|---------------------------|------------------------|---|-------------------|------------------------------------|-----------------------------------|
| 440-174831-1 | E2-5-20170126-DUPSD | 440-174831-8 | Water | 2017-01-26 | MSD | Stage 2A | | | | | X | | | | | |
| 440-174831-1 | E2-4-20170126 | 440-174831-9 | Water | 2017-01-26 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174981-1 | UFIW-05S-20170127 | 440-174981-1 | Water | 2017-01-27 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174981-1 | UFIW-06S-20170127 | 440-174981-2 | Water | 2017-01-27 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174981-1 | UFIW-07S-20170127 | 440-174981-3 | Water | 2017-01-27 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174981-1 | UFIW-08S-20170127 | 440-174981-4 | Water | 2017-01-27 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174981-1 | UFMW-04S-20170127 | 440-174981-5 | Water | 2017-01-27 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174981-1 | UFMW-04S-20170127-DUP | 440-174981-6 | Water | 2017-01-27 | FD | Stage 2A | | | | | X | | | | | |
| 440-174981-1 | UFMW-06S-20170127 | 440-174981-7 | Water | 2017-01-27 | NORM | Stage 2A | | | | | X | | | | | |
| 440-174981-1 | 20170127-FB | 440-174981-8 | Water | 2017-01-27 | FB | Stage 2A | | | | | X | | | | | |
| 440-174984-1 | UFMW-05S-20170127 | 440-174984-1 | Water | 2017-01-27 | NORM | Stage 2A | | | | | X | | | | | |
| 440-180057-1 | CTMW-01D-0.5-20170320 | 440-180057-1 | Solid | 2017-03-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180057-1 | CTMW-01D-0.5-20170320MS | 440-180057-1MS | Solid | 2017-03-20 | MS | Stage 2A | | | X | | | | | | | |
| 440-180057-1 | CTMW-01D-0.5-20170320MSD | 440-180057-1MSD | Solid | 2017-03-20 | MSD | Stage 2A | | | X | | | | | | | |
| 440-180057-1 | CTIW-02D-0.5-20170320 | 440-180057-2 | Solid | 2017-03-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180057-1 | CTMW-02D-0.5-20170320 | 440-180057-3 | Solid | 2017-03-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180057-1 | CTMW-02D-0.5-20170320MS | 440-180057-3MS | Solid | 2017-03-20 | MS | Stage 2A | | | | | X | | | | | |
| 440-180057-1 | CTMW-02D-0.5-20170320MSD | 440-180057-3MSD | Solid | 2017-03-20 | MSD | Stage 2A | | | | | X | | | | | |
| 440-180057-1 | CTIW-03D-0.5-20170320 | 440-180057-4 | Solid | 2017-03-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180057-1 | CTIW-03D-0.5-20170320-EB | 440-180057-5 | Water | 2017-03-20 | EB | Stage 2A | | | X | | X | | | | | |
| 440-180057-1 | CTMW-04D-0.5-20170320 | 440-180057-6 | Solid | 2017-03-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180057-1 | CTMW-04D-0.5-20170320MS | 440-180057-6MS | Solid | 2017-03-20 | MS | Stage 2A | | | | | | | | | | |
| 440-180057-1 | CTMW-04D-0.5-20170320MSD | 440-180057-6MSD | Solid | 2017-03-20 | MSD | Stage 2A | | | | | | | | | | |
| 440-180166-1 | CTMW-01D-5.0-20170321 | 440-180166-1 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-50.0-20170321 | 440-180166-10 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-55.0-20170321 | 440-180166-11 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-55.0-20170321-FD | 440-180166-12 | Solid | 2017-03-21 | FD | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-60.0-20170321 | 440-180166-13 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-60.0-20170321MS | 440-180166-13MS | Solid | 2017-03-21 | MS | Stage 2A | | | | | | | | | | |
| 440-180166-1 | CTMW-01D-60.0-20170321MSD | 440-180166-13MSD | Solid | 2017-03-21 | MSD | Stage 2A | | | | | | | | | | |
| 440-180166-1 | CTMW-01D-60.0-20170321-EB | 440-180166-14 | Water | 2017-03-21 | EB | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-10.0-20170321 | 440-180166-2 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-15.0-20170321 | 440-180166-3 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-20.0-20170321 | 440-180166-4 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-25.0-20170321 | 440-180166-5 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-30.0-20170321 | 440-180166-6 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-35.0-20170321 | 440-180166-7 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-40.0-20170321 | 440-180166-8 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180166-1 | CTMW-01D-45.0-20170321 | 440-180166-9 | Solid | 2017-03-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180292-1 | CTMW-04D-55.0-20170322 | 440-180292-1 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180292-1 | CTMW-04D60.020170322EB | 440-180292-2 | Water | 2017-03-22 | EB | Stage 2A | | | X | | X | | | | | |
| 440-180292-1 | CTMW-04D60.020170322EBMS | 440-180292-2MS | Water | 2017-03-22 | MS | Stage 2A | | | | | X | | | | | |
| 440-180292-1 | CTMW-04D60.020170322EBMSD | 440-180292-2MSD | Water | 2017-03-22 | MSD | Stage 2A | | | | | X | | | | | |
| 440-180320-1 | CTMW-04D-5.0-20170322 | 440-180320-1 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180320-1 | CTMW-04D-45.0-20170322 | 440-180320-10 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180320-1 | CTMW-04D-50.0-20170322 | 440-180320-11 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180320-1 | CTMW-04D-5.0-20170322MS | 440-180320-1MS | Solid | 2017-03-22 | MS | Stage 2A | | | X | | X | | | | | |
| 440-180320-1 | CTMW-04D-5.0-20170322MSD | 440-180320-1MSD | Solid | 2017-03-22 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-180320-1 | CTMW-04D-10.0-20170322 | 440-180320-2 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180320-1 | CTMW-04D-15.0-20170322 | 440-180320-3 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180320-1 | CTMW-04D-20.0-20170322 | 440-180320-4 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180320-1 | CTMW-04D-25.0-20170322 | 440-180320-5 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180320-1 | CTMW-04D-25.0-20170322-FD | 440-180320-6 | Solid | 2017-03-22 | FD | Stage 2A | | | X | | X | | | | | |
| 440-180320-1 | CTMW-04D-30.0-20170322 | 440-180320-7 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180320-1 | CTMW-04D-35.0-20170322 | 440-180320-8 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand | Total Organic Carbon | Calcium, Magnesium, Potassium, Sodium | Metals | Chromium VI | Mercury | Volatile Organic Compounds | pH | Total Organic Carbon | Volatile Fatty Acids |
|--------------|---------------------------|------------------|--------|-------------|---------|------------------|------------------------|----------------------|---------------------------------------|------------|-------------|-------------|----------------------------|-------------|----------------------|----------------------|
| | | | | | | | by SM5220D | by SM5310B | by SW-6010B | by SW-6020 | by SW-7199 | by SW-7471A | by SW-8260B | by SW-9045C | by SW-9060 | by VFA-IC |
| 440-180320-1 | CTMW-04D-40.0-20170322 | 440-180320-9 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180320-2 | CTMW-04D-40.0-20170322 | 440-180320-9 | Solid | 2017-03-22 | NORM | Stage 2A | | | X (soluble) | X | | X | | X | X | |
| 440-180320-2 | CTMW-04D-40.0-20170322MS | 440-180320-9MS | Water | 2017-03-22 | MS | Stage 2A | | | | | | | | | X | |
| 440-180320-2 | CTMW-04D-40.0-20170322MSD | 440-180320-9MSD | Water | 2017-03-22 | MSD | Stage 2A | | | | | | | | | X | |
| 440-180327-1 | CTMW-04D-60.0-20170322 | 440-180327-1 | Solid | 2017-03-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180327-1 | CTMW-04D-60.0-20170322MS | 440-180327-1MS | Solid | 2017-03-22 | MS | Stage 2A | | | | | | | | | | |
| 440-180327-1 | CTMW-04D-60.0-20170322MSD | 440-180327-1MSD | Solid | 2017-03-22 | MSD | Stage 2A | | | | | | | | | | |
| 440-180434-1 | CTMW-02D-60.0-20170323-EB | 440-180434-1 | Water | 2017-03-23 | EB | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-5.0-20170323 | 440-180521-1 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-50.0-20170323 | 440-180521-10 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-55.0-20170323 | 440-180521-11 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-60.0-20170323 | 440-180521-12 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-60.0-20170323MS | 440-180521-12MS | Solid | 2017-03-23 | MS | Stage 2A | | | | | | | | | | |
| 440-180521-1 | CTMW-02D-60.0-20170323MSD | 440-180521-12MSD | Solid | 2017-03-23 | MSD | Stage 2A | | | | | | | | | | |
| 440-180521-1 | CTMW-02D-5.0-20170323MS | 440-180521-1MS | Solid | 2017-03-23 | MS | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-5.0-20170323MSD | 440-180521-1MSD | Solid | 2017-03-23 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-10.0-20170323 | 440-180521-2 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-10.0-20170323-FD | 440-180521-3 | Solid | 2017-03-23 | FD | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-15.0-20170323 | 440-180521-4 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-20.0-20170323 | 440-180521-5 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-25.0-20170323 | 440-180521-6 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-30.0-20170323 | 440-180521-7 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-40.0-20170323 | 440-180521-8 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180521-1 | CTMW-02D-45.0-20170323 | 440-180521-9 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180521-2 | CTMW-02D-40.0-20170323 | 440-180521-8 | Solid | 2017-03-23 | NORM | Stage 2A | | | X (soluble) | X | | X | | X | X | |
| 440-180522-1 | CTMW-02D-35.0-20170323 | 440-180522-1 | Solid | 2017-03-23 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-10.0-20170324 | 440-180564-1 | Solid | 2017-03-24 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-50.0-20170324 | 440-180564-10 | Solid | 2017-03-24 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-50.0-20170324-EB | 440-180564-11 | Water | 2017-03-24 | EB | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-10.0-20170324MS | 440-180564-1MS | Solid | 2017-03-24 | MS | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-10.0-20170324MSD | 440-180564-1MSD | Solid | 2017-03-24 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-15.0-20170324-FD | 440-180564-2 | Solid | 2017-03-24 | FD | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-15.0-20170324 | 440-180564-3 | Solid | 2017-03-24 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-20.0-20170324 | 440-180564-4 | Solid | 2017-03-24 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-25.0-20170324 | 440-180564-5 | Solid | 2017-03-24 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-30.0-20170324 | 440-180564-6 | Solid | 2017-03-24 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-35.0-20170324 | 440-180564-7 | Solid | 2017-03-24 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-40.0-20170324 | 440-180564-8 | Solid | 2017-03-24 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180564-1 | CTIW-02D-45.0-20170324 | 440-180564-9 | Solid | 2017-03-24 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180590-1 | CTIW-02D-5.0-20170324 | 440-180590-1 | Solid | 2017-03-24 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-02S-22.0-20170327 | 440-180694-1 | Solid | 2017-03-27 | NORM | Stage 2A | | | X (soluble) | X | X | X | | X | X | |
| 440-180694-1 | CTIW-03D-40.0-20170327 | 440-180694-10 | Solid | 2017-03-27 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-03D-41.5-20170327 | 440-180694-11 | Solid | 2017-03-27 | NORM | Stage 2A | | | X (soluble) | X | X | X | | X | X | |
| 440-180694-1 | CTIW-03D-45.0-20170327 | 440-180694-12 | Solid | 2017-03-27 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-03D-50.0-20170327 | 440-180694-13 | Solid | 2017-03-27 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-03S-22.0-20170327 | 440-180694-14 | Solid | 2017-03-27 | NORM | Stage 2A | | | X (soluble) | X | X | X | | X | X | |
| 440-180694-1 | CTIW-03S-22.0-20170327MS | 440-180694-14MS | Solid | 2017-03-27 | MS | Stage 2A | | | | | | | | | X | |
| 440-180694-1 | CTIW-03S-22.0-20170327MSD | 440-180694-14MSD | Solid | 2017-03-27 | MSD | Stage 2A | | | | | | | | | X | |
| 440-180694-1 | CTIW-03S-22.0-20170327-EB | 440-180694-15 | Water | 2017-03-27 | EB | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-02S-22.0-20170327MS | 440-180694-1MS | Solid | 2017-03-27 | MS | Stage 2A | | | X (soluble) | X | | | | | | |
| 440-180694-1 | CTIW-02S-22.0-20170327MSD | 440-180694-1MSD | Solid | 2017-03-27 | MSD | Stage 2A | | | X (soluble) | X | | | | | | |
| 440-180694-1 | CTIW-03D-5.0-20170327 | 440-180694-2 | Solid | 2017-03-27 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-03D-5.0-20170327MS | 440-180694-2MS | Solid | 2017-03-27 | MS | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-03D-5.0-20170327MSD | 440-180694-2MSD | Solid | 2017-03-27 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-03D-10.0-20170327 | 440-180694-3 | Solid | 2017-03-27 | NORM | Stage 2A | | | X | | X | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand | Total Organic Carbon | Calcium, Magnesium, Potassium, Sodium | Metals | Chromium VI | Mercury | Volatile Organic Compounds | pH | Total Organic Carbon | Volatile Fatty Acids |
|--------------|---------------------------|-----------------|--------|-------------|---------|------------------|------------------------|----------------------|---------------------------------------|------------|-------------|-------------|----------------------------|-------------|----------------------|----------------------|
| | | | | | | | by SM5220D | by SM5310B | by SW-6010B | by SW-6020 | by SW-7199 | by SW-7471A | by SW-8260B | by SW-9045C | by SW-9060 | by VFA-IC |
| 440-180694-1 | CTIW-03D-10.0-20170327-FD | 440-180694-4 | Solid | 2017-03-27 | FD | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-03D-20.0-20170327 | 440-180694-5 | Solid | 2017-03-27 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-03D-25.0-20170327 | 440-180694-6 | Solid | 2017-03-27 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-03D-25.0-20170327-FD | 440-180694-7 | Solid | 2017-03-27 | FD | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-03D-30.0-20170327 | 440-180694-8 | Solid | 2017-03-27 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180694-1 | CTIW-03D-35.0-20170327 | 440-180694-9 | Solid | 2017-03-27 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-180695-1 | CTIW-03D-15.0-20170327 | 440-180695-1 | Solid | 2017-03-27 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-181198-1 | CTIW-02S-20170403 | 440-181198-1 | Water | 2017-04-03 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181198-1 | CTIW-02S-20170403MS | 440-181198-1MS | Water | 2017-04-03 | MS | Stage 2A | | | | | | | | | | |
| 440-181198-1 | CTIW-02S-20170403MS | 440-181198-1MS | Water | 2017-04-03 | MS | Stage 2A | | | X | X | | | | | | |
| 440-181198-1 | CTIW-02S-20170403MSD | 440-181198-1MSD | Water | 2017-04-03 | MSD | Stage 2A | | | | | | | | | | |
| 440-181198-1 | CTIW-02S-20170403MSD | 440-181198-1MSD | Water | 2017-04-03 | MSD | Stage 2A | | | X | X | | | | | | |
| 440-181198-1 | CTMW-01D-20170403 | 440-181198-2 | Water | 2017-04-03 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181198-1 | CTMW-01D-20170403MS | 440-181198-2MS | Water | 2017-04-03 | MS | Stage 2A | | | | | | | | | | |
| 440-181198-1 | CTMW-01D-20170403MSD | 440-181198-2MSD | Water | 2017-04-03 | MSD | Stage 2A | | | | | | | | | | |
| 440-181198-1 | CTIW-02S-20170403-TB | 440-181198-3 | Water | 2017-04-03 | TB | Stage 2A | | | | | | | X | | | |
| 440-181291-1 | CTMW-01S-20170404 | 440-181291-1 | Water | 2017-04-04 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181291-1 | CTMW-01S-20170404MS | 440-181291-1MS | Water | 2017-04-04 | MS | Stage 2A | | X | X | | | | | | | |
| 440-181291-1 | CTMW-01S-20170404MSD | 440-181291-1MSD | Water | 2017-04-04 | MSD | Stage 2A | | X | X | | | | | | | |
| 440-181291-1 | CTMW-02D-20170404 | 440-181291-2 | Water | 2017-04-04 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181291-1 | CTMW-02D-20170404MS | 440-181291-2MS | Water | 2017-04-04 | MS | Stage 2A | | | | | | | | | | X |
| 440-181291-1 | CTMW-02D-20170404MS | 440-181291-2MS | Water | 2017-04-04 | MS | Stage 2A | | | | X | | | | | | |
| 440-181291-1 | CTMW-02D-20170404MSD | 440-181291-2MSD | Water | 2017-04-04 | MSD | Stage 2A | | | | | | | | | | X |
| 440-181291-1 | CTMW-02D-20170404MSD | 440-181291-2MSD | Water | 2017-04-04 | MSD | Stage 2A | | | | X | | | | | | |
| 440-181291-1 | CTIW-02D-20170404 | 440-181291-3 | Water | 2017-04-04 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181291-1 | CTIW-03S-20170404 | 440-181291-4 | Water | 2017-04-04 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181291-1 | CTIW-03S-20170404MS | 440-181291-4MS | Water | 2017-04-04 | MS | Stage 2A | | | | | | | | | | X |
| 440-181291-1 | CTIW-03S-20170404MSD | 440-181291-4MSD | Water | 2017-04-04 | MSD | Stage 2A | | | | | | | | | | X |
| 440-181291-1 | CTIW-03D-20170404 | 440-181291-5 | Water | 2017-04-04 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181291-1 | CTMW-02D-20170404-FD | 440-181291-6 | Water | 2017-04-04 | FD | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181291-1 | CTMW-02D-20170404-FDMS | 440-181291-6MS | Water | 2017-04-04 | MS | Stage 2A | | | | | | | | | | |
| 440-181291-1 | CTMW-02D-20170404-FDMSD | 440-181291-6MSD | Water | 2017-04-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-181417-1 | CTMW-02S-20170405 | 440-181417-1 | Water | 2017-04-05 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181417-1 | CTMW-02S-20170405MS | 440-181417-1MS | Water | 2017-04-05 | MS | Stage 2A | | X | X | X | | | | | | |
| 440-181417-1 | CTMW-02S-20170405MSD | 440-181417-1MSD | Water | 2017-04-05 | MSD | Stage 2A | | X | X | X | | | | | | |
| 440-181417-1 | CTMW-03S-20170405 | 440-181417-2 | Water | 2017-04-05 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181417-1 | CTMW-03S-20170405MS | 440-181417-2MS | Water | 2017-04-05 | MS | Stage 2A | | | | | | | | | | X |
| 440-181417-1 | CTMW-03S-20170405MSD | 440-181417-2MSD | Water | 2017-04-05 | MSD | Stage 2A | | | | | | | | | | X |
| 440-181417-1 | CTMW-04S-20170405 | 440-181417-3 | Water | 2017-04-05 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181417-1 | CTMW-04D-20170405 | 440-181417-4 | Water | 2017-04-05 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181417-1 | CTMW-04D-20170405MS | 440-181417-4MS | Water | 2017-04-05 | MS | Stage 2A | | | | | | | | | | |
| 440-181417-1 | CTMW-04D-20170405MSD | 440-181417-4MSD | Water | 2017-04-05 | MSD | Stage 2A | | | | | | | | | | |
| 440-181417-1 | CTIW-01S-20170405 | 440-181417-5 | Water | 2017-04-05 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181417-1 | CTIW-01S-20170405MS | 440-181417-5MS | Water | 2017-04-05 | MS | Stage 2A | | | | | | | | | | |
| 440-181417-1 | CTIW-01S-20170405MSD | 440-181417-5MSD | Water | 2017-04-05 | MSD | Stage 2A | | | | | | | | | | |
| 440-181417-1 | CTMW-02S-20170405-TB | 440-181417-6 | Water | 2017-04-05 | TB | Stage 2A | | | | | | | X | | | |
| 440-181550-1 | CTIW-01D-20170406 | 440-181550-1 | Water | 2017-04-06 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181550-1 | CTIW-01D-20170406MS | 440-181550-1MS | Water | 2017-04-06 | MS | Stage 2A | | | | | | | | | | |
| 440-181550-1 | CTIW-01D-20170406MSD | 440-181550-1MSD | Water | 2017-04-06 | MSD | Stage 2A | | | | | | | | | | |
| 440-181550-1 | CTMW-03D-20170406 | 440-181550-2 | Water | 2017-04-06 | NORM | Stage 2A | | X | X | X | X | | X | | | X |
| 440-181550-1 | CTMW-03D-20170406MS | 440-181550-2MS | Water | 2017-04-06 | MS | Stage 2A | | | | X | | | | | | |
| 440-181550-1 | CTMW-03D-20170406MSD | 440-181550-2MSD | Water | 2017-04-06 | MSD | Stage 2A | | | | X | | | | | | |
| 440-181550-1 | CTIW-01D-20170406-TB | 440-181550-3 | Water | 2017-04-06 | TB | Stage 2A | | | | | | | X | | | |
| 440-181552-1 | UFMW-04I-20170406 | 440-181552-1 | Water | 2017-04-06 | NORM | Stage 2A | | | X | X | X | | | | | |
| 440-181552-1 | UFMW-04I-20170406MS | 440-181552-1MS | Water | 2017-04-06 | MS | Stage 2A | | | | X | | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand | Total Organic Carbon | Calcium, Magnesium, Potassium, Sodium | Metals | Chromium VI | Mercury | Volatile Organic Compounds | pH | Total Organic Carbon | Volatile Fatty Acids |
|--------------|------------------------|-----------------|--------|-------------|---------|------------------|------------------------|----------------------|---------------------------------------|------------|-------------|-------------|----------------------------|-------------|----------------------|----------------------|
| | | | | | | | by SM5220D | by SM5310B | by SW-6010B | by SW-6020 | by SW-7199 | by SW-7471A | by SW-8260B | by SW-9045C | by SW-9060 | by VFA-IC |
| 440-181552-1 | UFMW-04I-20170406MSD | 440-181552-1MSD | Water | 2017-04-06 | MSD | Stage 2A | | | | X | | | | | | |
| 440-181652-1 | UFMW-04S-20170407 | 440-181652-1 | Water | 2017-04-07 | NORM | Stage 2A | | | X | X | X | | | | | |
| 440-181652-1 | UFMW-04S-20170407MS | 440-181652-1MS | Water | 2017-04-07 | MS | Stage 2A | | | X | | | | | | | |
| 440-181652-1 | UFMW-04S-20170407MSD | 440-181652-1MSD | Water | 2017-04-07 | MSD | Stage 2A | | | X | | | | | | | |
| 440-181652-1 | UFMW-05S-20170407 | 440-181652-2 | Water | 2017-04-07 | NORM | Stage 2A | | | X | X | X | | | | | |
| 440-181652-1 | UFMW-05S-20170407MS | 440-181652-2MS | Water | 2017-04-07 | MS | Stage 2A | | | | | X | | | | | |
| 440-181652-1 | UFMW-05S-20170407MSD | 440-181652-2MSD | Water | 2017-04-07 | MSD | Stage 2A | | | | | X | | | | | |
| 440-181652-1 | UFMW-05I-20170407 | 440-181652-3 | Water | 2017-04-07 | NORM | Stage 2A | | | X | X | X | | | | | |
| 440-181739-1 | UFMW-06S-20170410 | 440-181739-1 | Water | 2017-04-10 | NORM | Stage 2A | | | X | X | X | | | | | |
| 440-181739-1 | UFMW-06I-20170410 | 440-181739-2 | Water | 2017-04-10 | NORM | Stage 2A | | | X | X | X | | | | | |
| 440-181739-1 | UFMW-06I-20170410-FD | 440-181739-3 | Water | 2017-04-10 | FD | Stage 2A | | | X | X | X | | | | | |
| 440-181739-1 | UFIW-07S-20170410 | 440-181739-4 | Water | 2017-04-10 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181739-1 | UFIW-05S-20170410 | 440-181739-5 | Water | 2017-04-10 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181739-1 | UFIW-05S-20170410MS | 440-181739-5MS | Water | 2017-04-10 | MS | Stage 2A | | | X | | | | | | | |
| 440-181739-1 | UFIW-05S-20170410MSD | 440-181739-5MSD | Water | 2017-04-10 | MSD | Stage 2A | | | X | | | | | | | |
| 440-181739-1 | UFIW-05I-20170410 | 440-181739-6 | Water | 2017-04-10 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181739-1 | UFIW-06S-20170410 | 440-181739-7 | Water | 2017-04-10 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181739-1 | UFIW-06S-20170410MS | 440-181739-7MS | Water | 2017-04-10 | MS | Stage 2A | | | | X | | | | | | |
| 440-181739-1 | UFIW-06S-20170410MSD | 440-181739-7MSD | Water | 2017-04-10 | MSD | Stage 2A | | | | X | | | | | | |
| 440-181742-1 | UFIW-08S-20170410 | 440-181742-1 | Water | 2017-04-10 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181742-1 | UFIW-08S-20170410MS | 440-181742-1MS | Water | 2017-04-10 | MS | Stage 2A | | | | X | | | | | | |
| 440-181742-1 | UFIW-08S-20170410MSD | 440-181742-1MSD | Water | 2017-04-10 | MSD | Stage 2A | | | | X | | | | | | |
| 440-181867-1 | UFMW-03I-20170411 | 440-181867-1 | Water | 2017-04-11 | NORM | Stage 2A | | | X | X | X | | | | | |
| 440-181867-1 | UFMW-03I-20170411MS | 440-181867-1MS | Water | 2017-04-11 | MS | Stage 2A | | | X | X | X | | | | | |
| 440-181867-1 | UFMW-03I-20170411MSD | 440-181867-1MSD | Water | 2017-04-11 | MSD | Stage 2A | | | X | X | X | | | | | |
| 440-181867-1 | UFMW-02I-20170411 | 440-181867-2 | Water | 2017-04-11 | NORM | Stage 2A | | | X | X | X | | | | | |
| 440-181867-1 | UFMW-01I-20170411 | 440-181867-3 | Water | 2017-04-11 | NORM | Stage 2A | | | X | X | X | | | | | |
| 440-181867-1 | UFIW-01S-20170411 | 440-181867-4 | Water | 2017-04-11 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181867-1 | UFIW-01S-20170411MS | 440-181867-4MS | Water | 2017-04-11 | MS | Stage 2A | | | X | | | | | | | |
| 440-181867-1 | UFIW-01S-20170411MSD | 440-181867-4MSD | Water | 2017-04-11 | MSD | Stage 2A | | | X | | | | | | | |
| 440-181867-1 | UFIW-06I-20170411 | 440-181867-5 | Water | 2017-04-11 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181867-1 | UFIW-07I-20170411 | 440-181867-6 | Water | 2017-04-11 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181867-1 | UFIW-08I-20170411 | 440-181867-7 | Water | 2017-04-11 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181998-1 | UFIW-03I-20170412 | 440-181998-1 | Water | 2017-04-12 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181998-1 | UFIW-03I-20170412MS | 440-181998-1MS | Water | 2017-04-12 | MS | Stage 2A | | | X | X | | | | | | |
| 440-181998-1 | UFIW-03I-20170412MSD | 440-181998-1MSD | Water | 2017-04-12 | MSD | Stage 2A | | | X | X | | | | | | |
| 440-181998-1 | UFMW-02S-20170412 | 440-181998-2 | Water | 2017-04-12 | NORM | Stage 2A | | | X | X | X | | | | | |
| 440-181998-1 | UFIW-04S-20170412 | 440-181998-3 | Water | 2017-04-12 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181998-1 | UFIW-03S-20170412 | 440-181998-4 | Water | 2017-04-12 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181998-1 | UFIW-02I-20170412 | 440-181998-5 | Water | 2017-04-12 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181998-1 | UFIW-01I-20170412 | 440-181998-6 | Water | 2017-04-12 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181998-1 | UFIW-02S-20170412 | 440-181998-7 | Water | 2017-04-12 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181998-1 | UFIW-02S-20170412-FD | 440-181998-8 | Water | 2017-04-12 | FD | Stage 2A | | | X | X | | | | | | |
| 440-181999-1 | UFIW-04I-20170412 | 440-181999-1 | Water | 2017-04-12 | NORM | Stage 2A | | | X | X | | | | | | |
| 440-181999-1 | UFIW-04I-20170412MS | 440-181999-1MS | Water | 2017-04-12 | MS | Stage 2A | | | | X | | | | | | |
| 440-181999-1 | UFIW-04I-20170412MSD | 440-181999-1MSD | Water | 2017-04-12 | MSD | Stage 2A | | | | X | | | | | | |
| 440-183557-1 | CTMW-01S-20170503 | 440-183557-1 | Water | 2017-05-03 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-183557-1 | CTMW-01S-20170503MS | 440-183557-1MS | Water | 2017-05-03 | MS | Stage 2A | | | X | | | | | | | |
| 440-183557-1 | CTMW-01S-20170503MSD | 440-183557-1MSD | Water | 2017-05-03 | MSD | Stage 2A | | | X | | | | | | | |
| 440-183557-1 | CTMW-01D-20170503 | 440-183557-2 | Water | 2017-05-03 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-183557-1 | CTMW-01D-20170503MS | 440-183557-2MS | Water | 2017-05-03 | MS | Stage 2A | | | | | | | | | | X |
| 440-183557-1 | CTMW-01D-20170503MSD | 440-183557-2MSD | Water | 2017-05-03 | MSD | Stage 2A | | | | | | | | | | X |
| 440-183557-1 | CTMW-02D-20170503 | 440-183557-3 | Water | 2017-05-03 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-183557-1 | CTMW-02D-20170503-FD | 440-183557-4 | Water | 2017-05-03 | FD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-183557-1 | CTMW-02D-20170503-FDMS | 440-183557-4MS | Water | 2017-05-03 | MS | Stage 2A | | | | | | | | | | X |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand by SM5220D | Total Organic Carbon by SM5310B | Calcium, Magnesium, Potassium, Sodium by SW-6010B | Metals by SW-6020 | Chromium VI by SW-7199 | Mercury by SW-7471A | Volatile Organic Compounds by SW-8260B | pH by SW-9045C | Total Organic Carbon by SW-9060 | Volatile Fatty Acids by VFA-IC |
|--------------|-------------------------|-----------------|--------|-------------|---------|------------------|--------------------------------------|------------------------------------|--|----------------------|---------------------------|------------------------|---|-------------------|------------------------------------|-----------------------------------|
| 440-183557-1 | CTMW-02D-20170503-FDMSD | 440-183557-4MSD | Water | 2017-05-03 | MSD | Stage 2A | | | | | | | | | | X |
| 440-183557-1 | CTMW-01S-20170503-TB | 440-183557-5 | Water | 2017-05-03 | TB | Stage 2A | | | | | | | X | | | |
| 440-183688-1 | CTMW-04D-20170504 | 440-183688-1 | Water | 2017-05-04 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-183688-1 | CTMW-04D-20170504MS | 440-183688-1MS | Water | 2017-05-04 | MS | Stage 2A | | | | X | | | | | | |
| 440-183688-1 | CTMW-04D-20170504MSD | 440-183688-1MSD | Water | 2017-05-04 | MSD | Stage 2A | | | | X | | | | | | |
| 440-183689-1 | CTMW-04S-20170504 | 440-183689-1 | Water | 2017-05-04 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-183689-1 | CTMW-02S-20170504 | 440-183689-2 | Water | 2017-05-04 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-183689-1 | CTMW-02S-20170504MS | 440-183689-2MS | Water | 2017-05-04 | MS | Stage 2A | | | | | | | | | | |
| 440-183689-1 | CTMW-02S-20170504MSD | 440-183689-2MSD | Water | 2017-05-04 | MSD | Stage 2A | | | | | | | | | | |
| 440-183689-1 | CTMW-04S-20170504-TB | 440-183689-3 | Water | 2017-05-04 | TB | Stage 2A | | | | | | | X | | | |
| 440-183810-1 | CTMW-03S-20170505 | 440-183810-1 | Water | 2017-05-05 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-183810-1 | CTMW-03S-20170505MS | 440-183810-1MS | Water | 2017-05-05 | MS | Stage 2A | | | | | X | | | | | |
| 440-183810-1 | CTMW-03S-20170505MSD | 440-183810-1MSD | Water | 2017-05-05 | MSD | Stage 2A | | | | | X | | | | | |
| 440-183810-1 | CTMW-03D-20170505 | 440-183810-2 | Water | 2017-05-05 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-183810-1 | CTMW-03D-20170505MS | 440-183810-2MS | Water | 2017-05-05 | MS | Stage 2A | | | | X | | | | | | |
| 440-183810-1 | CTMW-03D-20170505MSD | 440-183810-2MSD | Water | 2017-05-05 | MSD | Stage 2A | | | | X | | | | | | |
| 440-183810-1 | CTMW-03S-20170505-TB | 440-183810-3 | Water | 2017-05-05 | TB | Stage 2A | | | | | | | X | | | |
| 440-184556-1 | CTMW-01S-20170516 | 440-184556-1 | Water | 2017-05-16 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-184556-1 | CTMW-01D-20170516 | 440-184556-2 | Water | 2017-05-16 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-184556-1 | CTMW-01D-20170516MS | 440-184556-2MS | Water | 2017-05-16 | MS | Stage 2A | | | | X | | | | | | |
| 440-184556-1 | CTMW-01D-20170516MSD | 440-184556-2MSD | Water | 2017-05-16 | MSD | Stage 2A | | | | X | | | | | | |
| 440-184556-1 | CTMW-02S-20170516 | 440-184556-3 | Water | 2017-05-16 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-184556-1 | CTMW-01S-20170516-TB | 440-184556-4 | Water | 2017-05-16 | TB | Stage 2A | | | | | | | X | | | |
| 440-184659-1 | CTMW-02D-20170517 | 440-184659-1 | Water | 2017-05-17 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-184659-1 | CTMW-03S-20170517 | 440-184659-2 | Water | 2017-05-17 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-184659-1 | CTMW-03D-20170517 | 440-184659-3 | Water | 2017-05-17 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-184659-1 | CTMW-03D-20170517MS | 440-184659-3MS | Water | 2017-05-17 | MS | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-184659-1 | CTMW-03D-20170517MSD | 440-184659-3MSD | Water | 2017-05-17 | MSD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-184659-1 | CTMW-04S-20170517 | 440-184659-4 | Water | 2017-05-17 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-184659-1 | CTMW-04S-20170517MS | 440-184659-4MS | Water | 2017-05-17 | MS | Stage 2A | | | | | X | | | | | |
| 440-184659-1 | CTMW-04S-20170517MSD | 440-184659-4MSD | Water | 2017-05-17 | MSD | Stage 2A | | | | | X | | | | | |
| 440-184659-1 | CTMW-04D-20170517 | 440-184659-5 | Water | 2017-05-17 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-184659-1 | CTMW-04D-20170517-FD | 440-184659-6 | Water | 2017-05-17 | FD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-184659-1 | CTMW-02D-20170517-TB | 440-184659-7 | Water | 2017-05-17 | TB | Stage 2A | | | | | | | X | | | |
| 440-185475-1 | CTMW-01S-20170531 | 440-185475-1 | Water | 2017-05-31 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-185475-1 | CTMW-01S-20170531MS | 440-185475-1MS | Water | 2017-05-31 | MS | Stage 2A | | | | | | | | | | |
| 440-185475-1 | CTMW-01S-20170531MSD | 440-185475-1MSD | Water | 2017-05-31 | MSD | Stage 2A | | | | | | | | | | |
| 440-185475-1 | TRIPBLANKS1705311125 | 440-185475-2 | Water | 2017-05-31 | TB | Stage 2A | | | | | | | X | | | |
| 440-185475-1 | CTMW-01D-20170531 | 440-185475-3 | Water | 2017-05-31 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-185475-1 | CTMW-01D-20170531MS | 440-185475-3MS | Water | 2017-05-31 | MS | Stage 2A | | | | | X | | | | | |
| 440-185475-1 | CTMW-01D-20170531MSD | 440-185475-3MSD | Water | 2017-05-31 | MSD | Stage 2A | | | | | X | | | | | |
| 440-185562-1 | TRIPBLANK1706010830 | 440-185562-1 | Water | 2017-06-01 | TB | Stage 2A | | | | | | | X | | | |
| 440-185562-1 | CTMW-02D-20170601 | 440-185562-2 | Water | 2017-06-01 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-185562-1 | CTMW-02D-20170601MS | 440-185562-2MS | Water | 2017-06-01 | MS | Stage 2A | | | | | | | | | | |
| 440-185562-1 | CTMW-02D-20170601MSD | 440-185562-2MSD | Water | 2017-06-01 | MSD | Stage 2A | | | | | | | | | | |
| 440-185562-1 | CTMW-02D-20170601-FD | 440-185562-3 | Water | 2017-06-01 | FD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-185562-1 | CTMW-02D-20170601-FDMS | 440-185562-3MS | Water | 2017-06-01 | MS | Stage 2A | | | | | | | | | | |
| 440-185562-1 | CTMW-02D-20170601-FDMSD | 440-185562-3MSD | Water | 2017-06-01 | MSD | Stage 2A | | | | | | | | | | |
| 440-185562-1 | CTMW-03S-20170601 | 440-185562-4 | Water | 2017-06-01 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-185562-1 | TRIPBLANK21706011015 | 440-185562-5 | Water | 2017-06-01 | TB | Stage 2A | | | | | | | X | | | |
| 440-185562-1 | CTMW-03D-20170601 | 440-185562-6 | Water | 2017-06-01 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-185562-1 | CTMW-03D-20170601MS | 440-185562-6MS | Water | 2017-06-01 | MS | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-185562-1 | CTMW-03D-20170601MSD | 440-185562-6MSD | Water | 2017-06-01 | MSD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-185562-1 | CTMW-02S-20170601 | 440-185562-7 | Water | 2017-06-01 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-185643-1 | CTMW-04D-20170602 | 440-185643-1 | Water | 2017-06-02 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand by SM5220D | Total Organic Carbon by SM5310B | Calcium, Magnesium, Potassium, Sodium by SW-6010B | Metals by SW-6020 | Chromium VI by SW-7199 | Mercury by SW-7471A | Volatile Organic Compounds by SW-8260B | pH by SW-9045C | Total Organic Carbon by SW-9060 | Volatile Fatty Acids by VFA-IC |
|--------------|---------------------------|------------------|--------|-------------|---------|------------------|--------------------------------------|------------------------------------|--|----------------------|---------------------------|------------------------|---|-------------------|------------------------------------|-----------------------------------|
| 440-185643-1 | CTMW-04D-20170602MS | 440-185643-1MS | Water | 2017-06-02 | MS | Stage 2A | | | | | | | | | | X |
| 440-185644-1 | TRIPBLANK1706020800 | 440-185644-1 | Water | 2017-06-02 | TB | Stage 2A | | | | | | | X | | | |
| 440-185644-1 | CTMW-04S-20170602 | 440-185644-2 | Water | 2017-06-02 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-185644-1 | CTMW-04S-20170602MS | 440-185644-2MS | Water | 2017-06-02 | MS | Stage 2A | | | | | | | | | | |
| 440-185644-1 | CTMW-04S-20170602MSD | 440-185644-2MSD | Water | 2017-06-02 | MSD | Stage 2A | | | | | | | | | | |
| 440-185751-1 | CTMW-05D-0.5-20170605 | 440-185751-1 | Solid | 2017-06-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D-45.0-20170605 | 440-185751-10 | Solid | 2017-06-05 | NORM | Stage 2A | | | X (soluble) | X | X | X | | X | X | |
| 440-185751-1 | CTMW-05D-45.0-20170605MS | 440-185751-10MS | Solid | 2017-06-05 | MS | Stage 2A | | | X (soluble) | X | | | | | X | |
| 440-185751-1 | CTMW-05D-45.0-20170605MSD | 440-185751-10MSD | Solid | 2017-06-05 | MSD | Stage 2A | | | X (soluble) | X | | | | | X | |
| 440-185751-1 | CTMW-05D-50.0-20170605 | 440-185751-11 | Solid | 2017-06-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D50.020170605EB | 440-185751-12 | Water | 2017-06-05 | EB | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D50.020170605EBMS | 440-185751-12MS | Water | 2017-06-05 | MS | Stage 2A | | | | | X | | | | | |
| 440-185751-1 | CTMW-05D50.020170605EBMSD | 440-185751-12MSD | Water | 2017-06-05 | MSD | Stage 2A | | | | | X | | | | | |
| 440-185751-1 | CTMW-05D-0.5-20170605MS | 440-185751-1MS | Solid | 2017-06-05 | MS | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D-0.5-20170605MSD | 440-185751-1MSD | Solid | 2017-06-05 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D-5.0-20170605 | 440-185751-2 | Solid | 2017-06-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D-10.0-20170605 | 440-185751-3 | Solid | 2017-06-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D-15.0-20170605 | 440-185751-4 | Solid | 2017-06-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D-15.0-20170605-FD | 440-185751-5 | Solid | 2017-06-05 | FD | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D-25.0-20170605 | 440-185751-6 | Solid | 2017-06-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D-30.0-20170605 | 440-185751-7 | Solid | 2017-06-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D-35.0-20170605 | 440-185751-8 | Solid | 2017-06-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185751-1 | CTMW-05D-40.0-20170605 | 440-185751-9 | Solid | 2017-06-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185844-1 | CTMW-05D-55.0-20170605 | 440-185844-1 | Solid | 2017-06-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185844-1 | CTMW-05D-55.0-20170605MS | 440-185844-1MS | Solid | 2017-06-05 | MS | Stage 2A | | | X | | | | | | | |
| 440-185844-1 | CTMW-05D-55.0-20170605MSD | 440-185844-1MSD | Solid | 2017-06-05 | MSD | Stage 2A | | | X | | | | | | | |
| 440-185844-1 | CTMW-05D-60.0-20170605 | 440-185844-2 | Solid | 2017-06-05 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185847-1 | CTMW-05D-20.0-20170605 | 440-185847-1 | Solid | 2017-06-05 | NORM | Stage 2A | | | X (soluble) | X | X | X | | X | X | |
| 440-185869-1 | CTMW-06D-0.5-20170606 | 440-185869-1 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-40.0-20170606 | 440-185869-10 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-40.0-20170606MS | 440-185869-10MS | Solid | 2017-06-06 | MS | Stage 2A | | | | | | | | | | |
| 440-185869-1 | CTMW-06D-40.0-20170606MSD | 440-185869-10MSD | Solid | 2017-06-06 | MSD | Stage 2A | | | | | | | | | | |
| 440-185869-1 | CTMW-06D-45.0-20170606 | 440-185869-11 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-45.0-20170606MS | 440-185869-11MS | Solid | 2017-06-06 | MS | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-45.0-20170606MSD | 440-185869-11MSD | Solid | 2017-06-06 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-50.0-20170606 | 440-185869-12 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-55.0-20170606 | 440-185869-13 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-55.0-20170606-EB | 440-185869-14 | Water | 2017-06-06 | EB | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-43.5-20170606 | 440-185869-15 | Solid | 2017-06-06 | NORM | Stage 2A | | | X (soluble) | X | X | X | | X | X | |
| 440-185869-1 | CTMW-06D-0.5-20170606MS | 440-185869-1MS | Solid | 2017-06-06 | MS | Stage 2A | | | | | | | | | | |
| 440-185869-1 | CTMW-06D-0.5-20170606MSD | 440-185869-1MSD | Solid | 2017-06-06 | MSD | Stage 2A | | | | | | | | | | |
| 440-185869-1 | CTMW-06D-5.0-20170606 | 440-185869-2 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-10.0-20170606 | 440-185869-3 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-10.0-20170606-FD | 440-185869-4 | Solid | 2017-06-06 | FD | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-15.0-20170606 | 440-185869-5 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-20.0-20170606 | 440-185869-6 | Solid | 2017-06-06 | NORM | Stage 2A | | | X (soluble) | X | X | X | | X | X | |
| 440-185869-1 | CTMW-06D-25.0-20170606 | 440-185869-7 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-25.0-20170606MS | 440-185869-7MS | Solid | 2017-06-06 | MS | Stage 2A | | | | | X | | | | | |
| 440-185869-1 | CTMW-06D-25.0-20170606MSD | 440-185869-7MSD | Solid | 2017-06-06 | MSD | Stage 2A | | | | | X | | | | | |
| 440-185869-1 | CTMW-06D-30.0-20170606 | 440-185869-8 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185869-1 | CTMW-06D-35.0-20170606 | 440-185869-9 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-185875-1 | CTMW-06D-60.0-20170606 | 440-185875-1 | Solid | 2017-06-06 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-186792-1 | UFMW-01I-20170619 | 440-186792-1 | Water | 2017-06-19 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-186795-1 | UFMW-01S-20170619 | 440-186795-1 | Water | 2017-06-19 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-186795-1 | UFMW-01D-20170619 | 440-186795-2 | Water | 2017-06-19 | NORM | Stage 2A | | | X | | X | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand by SM5220D | Total Organic Carbon by SM5310B | Calcium, Magnesium, Potassium, Sodium by SW-6010B | Metals by SW-6020 | Chromium VI by SW-7199 | Mercury by SW-7471A | Volatile Organic Compounds by SW-8260B | pH by SW-9045C | Total Organic Carbon by SW-9060 | Volatile Fatty Acids by VFA-IC |
|--------------|-------------------------|-----------------|--------|-------------|---------|------------------|--------------------------------------|------------------------------------|--|----------------------|---------------------------|------------------------|---|-------------------|------------------------------------|-----------------------------------|
| 440-186795-1 | UFMW-01D-20170619MS | 440-186795-2MS | Water | 2017-06-19 | MS | Stage 2A | | | | | X | | | | | |
| 440-186795-1 | UFMW-01D-20170619MSD | 440-186795-2MSD | Water | 2017-06-19 | MSD | Stage 2A | | | | | X | | | | | |
| 440-186795-1 | UFMW-02S-20170619 | 440-186795-3 | Water | 2017-06-19 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-186795-1 | UFMW-02I-20170619 | 440-186795-4 | Water | 2017-06-19 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-186829-1 | TRIPBLANK11706190700 | 440-186829-1 | Water | 2017-06-19 | TB | Stage 2A | | | | | | | X | | | |
| 440-186829-1 | CTMW-01S-20170619 | 440-186829-2 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-186829-1 | CTMW-01S-20170619MS | 440-186829-2MS | Water | 2017-06-19 | MS | Stage 2A | | | X | | | | | | | |
| 440-186829-1 | CTMW-01S-20170619MSD | 440-186829-2MSD | Water | 2017-06-19 | MSD | Stage 2A | | | X | | | | | | | |
| 440-186829-1 | CTMW-01D-20170619 | 440-186829-3 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-186829-1 | CTMW-01D-20170619MS | 440-186829-3MS | Water | 2017-06-19 | MS | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-186829-1 | CTMW-01D-20170619MSD | 440-186829-3MSD | Water | 2017-06-19 | MSD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-186829-1 | CTMW-02D-20170619 | 440-186829-4 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-186829-1 | CTMW-02D-20170619-FD | 440-186829-5 | Water | 2017-06-19 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-186829-1 | TRIPBLANK21706191130 | 440-186829-6 | Water | 2017-06-19 | TB | Stage 2A | | | | | | | X | | | |
| 440-186829-2 | CTMW-01S-20170619 | 440-186829-2 | Water | 2017-06-19 | NORM | Stage 2A | | | | | | | | | | |
| 440-186901-1 | CTMW-04S-20170620 | 440-186901-1 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-186901-1 | CTMW-04S-20170620MS | 440-186901-1MS | Water | 2017-06-20 | MS | Stage 2A | | | X | | | | | | | |
| 440-186901-1 | CTMW-04S-20170620MSD | 440-186901-1MSD | Water | 2017-06-20 | MSD | Stage 2A | | | X | | | | | | | |
| 440-186906-1 | TRIPBLANK1706200430 | 440-186906-1 | Water | 2017-06-20 | TB | Stage 2A | | | | | | | X | | | |
| 440-186906-1 | CTMW-02S-20170620 | 440-186906-2 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-186906-1 | CTMW-02S-20170620MS | 440-186906-2MS | Water | 2017-06-20 | MS | Stage 2A | | | | | X | | | | | X |
| 440-186906-1 | CTMW-02S-20170620MSD | 440-186906-2MSD | Water | 2017-06-20 | MSD | Stage 2A | | | | | X | | | | | |
| 440-186906-1 | CTMW-03S-20170620 | 440-186906-3 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-186906-1 | CTMW-03D-20170620 | 440-186906-4 | Water | 2017-06-20 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-186906-1 | CTMW-03D-20170620MS | 440-186906-4MS | Water | 2017-06-20 | MS | Stage 2A | | X | | | | | | | | |
| 440-186906-1 | CTMW-03D-20170620MSD | 440-186906-4MSD | Water | 2017-06-20 | MSD | Stage 2A | | X | | | | | | | | |
| 440-186917-1 | UFMW-03I-20170620 | 440-186917-1 | Water | 2017-06-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-186917-1 | UFMW-03I-20170620MS | 440-186917-1MS | Water | 2017-06-20 | MS | Stage 2A | | | X | | | | | | | |
| 440-186917-1 | UFMW-03I-20170620MSD | 440-186917-1MSD | Water | 2017-06-20 | MSD | Stage 2A | | | X | | | | | | | |
| 440-186917-1 | UFMW-03D-20170620 | 440-186917-2 | Water | 2017-06-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-186917-1 | UFMW-02D-20170620 | 440-186917-3 | Water | 2017-06-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-186917-1 | UFMW-02D-20170620MS | 440-186917-3MS | Water | 2017-06-20 | MS | Stage 2A | | | | | X | | | | | |
| 440-186917-1 | UFMW-02D-20170620MSD | 440-186917-3MSD | Water | 2017-06-20 | MSD | Stage 2A | | | | | X | | | | | |
| 440-186917-1 | UFMW-04S-20170620 | 440-186917-4 | Water | 2017-06-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-186917-1 | UFMW-04I-20170620 | 440-186917-5 | Water | 2017-06-20 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-186917-1 | UFMW-04I-20170620-FD | 440-186917-6 | Water | 2017-06-20 | FD | Stage 2A | | | X | | X | | | | | |
| 440-187017-1 | TRIPBLANK1706210430 | 440-187017-1 | Water | 2017-06-21 | TB | Stage 2A | | | | | | | X | | | |
| 440-187017-1 | CTMW-04D-20170621 | 440-187017-2 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-187017-1 | CTMW-04D-20170621MS | 440-187017-2MS | Water | 2017-06-21 | MS | Stage 2A | | X | | | | | | | | |
| 440-187017-1 | CTMW-04D-20170621MSD | 440-187017-2MSD | Water | 2017-06-21 | MSD | Stage 2A | | X | | | | | | | | |
| 440-187017-1 | CTMW-05S-20170621 | 440-187017-3 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-187017-1 | CTMW-05D-20170621 | 440-187017-4 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-187017-1 | CTMW-05D-20170621-FD | 440-187017-5 | Water | 2017-06-21 | FD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-187017-1 | CTMW-05D-20170621-FDMS | 440-187017-5MS | Water | 2017-06-21 | MS | Stage 2A | | | | | | | X | | | |
| 440-187017-1 | CTMW-05D-20170621-FDMSD | 440-187017-5MSD | Water | 2017-06-21 | MSD | Stage 2A | | | | | | | X | | | |
| 440-187017-1 | CTMW-06S-20170621 | 440-187017-6 | Water | 2017-06-21 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-187020-1 | UFMW-04D-20170621 | 440-187020-1 | Water | 2017-06-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-187020-1 | UFMW-05S-20170621 | 440-187020-2 | Water | 2017-06-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-187020-1 | UFMW-05I-20170621 | 440-187020-3 | Water | 2017-06-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-187020-1 | UFMW-05D-20170621 | 440-187020-4 | Water | 2017-06-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-187020-1 | UFMW-05D-20170621MS | 440-187020-4MS | Water | 2017-06-21 | MS | Stage 2A | | | X | | X | | | | | |
| 440-187020-1 | UFMW-05D-20170621MSD | 440-187020-4MSD | Water | 2017-06-21 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-187020-1 | UFMW-06S-20170621 | 440-187020-5 | Water | 2017-06-21 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-187098-1 | UFMW-06D-20170622 | 440-187098-1 | Water | 2017-06-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-187098-1 | UFMW-06D-20170622-FD | 440-187098-2 | Water | 2017-06-22 | FD | Stage 2A | | | X | | X | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand by SM5220D | Total Organic Carbon by SM5310B | Calcium, Magnesium, Potassium, Sodium by SW-6010B | Metals by SW-6020 | Chromium VI by SW-7199 | Mercury by SW-7471A | Volatile Organic Compounds by SW-8260B | pH by SW-9045C | Total Organic Carbon by SW-9060 | Volatile Fatty Acids by VFA-IC |
|--------------|-------------------------|-----------------|--------|-------------|---------|------------------|--------------------------------------|------------------------------------|--|----------------------|---------------------------|------------------------|---|-------------------|------------------------------------|-----------------------------------|
| 440-187099-1 | UFMW-06I-20170622 | 440-187099-1 | Water | 2017-06-22 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-187099-1 | UFMW-06I-20170622MS | 440-187099-1MS | Water | 2017-06-22 | MS | Stage 2A | | | | | X | | | | | |
| 440-187099-1 | UFMW-06I-20170622MSD | 440-187099-1MSD | Water | 2017-06-22 | MSD | Stage 2A | | | | | X | | | | | |
| 440-187101-1 | TRIPBLANK1706220430 | 440-187101-1 | Water | 2017-06-22 | TB | Stage 2A | | | | | | | X | | | |
| 440-187101-1 | CTMW-06D-20170622 | 440-187101-2 | Water | 2017-06-22 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-187101-1 | CTMW-06D-20170622MS | 440-187101-2MS | Water | 2017-06-22 | MS | Stage 2A | | | X | | | | | | | |
| 440-187101-1 | CTMW-06D-20170622MSD | 440-187101-2MSD | Water | 2017-06-22 | MSD | Stage 2A | | | X | | | | | | | |
| 440-188487-1 | TRIPBLANK1707170630 | 440-188487-1 | Water | 2017-07-17 | TB | Stage 2A | | | | | | | X | | | |
| 440-188487-1 | CTMW-06S-20170717 | 440-188487-2 | Water | 2017-07-17 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188487-1 | CTMW-06S-20170717MS | 440-188487-2MS | Water | 2017-07-17 | MS | Stage 2A | | | | | | | | | | |
| 440-188487-1 | CTMW-06S-20170717MSD | 440-188487-2MSD | Water | 2017-07-17 | MSD | Stage 2A | | | | | | | | | | |
| 440-188487-1 | CTMW-06D-20170717 | 440-188487-3 | Water | 2017-07-17 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188487-1 | CTMW-06D-20170717MS | 440-188487-3MS | Water | 2017-07-17 | MS | Stage 2A | | X | X | | | | | | | |
| 440-188487-1 | CTMW-06D-20170717MSD | 440-188487-3MSD | Water | 2017-07-17 | MSD | Stage 2A | | X | X | | | | | | | |
| 440-188487-1 | CTMW-06D-20170717-FD | 440-188487-4 | Water | 2017-07-17 | FD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188487-1 | CTMW-05S-20170717 | 440-188487-5 | Water | 2017-07-17 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188538-1 | TRIPBLANK1707180600 | 440-188538-1 | Water | 2017-07-18 | TB | Stage 2A | | | | | | | X | | | |
| 440-188538-1 | CTMW-05D-20170718 | 440-188538-2 | Water | 2017-07-18 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188538-1 | CTMW-05D-20170718MS | 440-188538-2MS | Water | 2017-07-18 | MS | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188538-1 | CTMW-05D-20170718MSD | 440-188538-2MSD | Water | 2017-07-18 | MSD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188538-1 | CTMW-04D-20170718 | 440-188538-3 | Water | 2017-07-18 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188538-1 | CTMW-04S-20170718 | 440-188538-4 | Water | 2017-07-18 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188538-1 | CTMW-03S-20170718 | 440-188538-5 | Water | 2017-07-18 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188655-1 | TRIPBLANK1707190500 | 440-188655-1 | Water | 2017-07-19 | TB | Stage 2A | | | | | | | X | | | |
| 440-188655-1 | CTMW-03D-20170719 | 440-188655-2 | Water | 2017-07-19 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188655-1 | CTMW-03D-20170719MS | 440-188655-2MS | Water | 2017-07-19 | MS | Stage 2A | | X | X | | | | X | | | |
| 440-188655-1 | CTMW-03D-20170719MSD | 440-188655-2MSD | Water | 2017-07-19 | MSD | Stage 2A | | X | X | | | | X | | | |
| 440-188655-1 | CTMW-02S-20170719 | 440-188655-3 | Water | 2017-07-19 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188655-1 | CTMW-02D-20170719 | 440-188655-4 | Water | 2017-07-19 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188655-1 | CTMW-02D-20170719MS | 440-188655-4MS | Water | 2017-07-19 | MS | Stage 2A | | | | X | | | | | | |
| 440-188655-1 | CTMW-02D-20170719MSD | 440-188655-4MSD | Water | 2017-07-19 | MSD | Stage 2A | | | | X | | | | | | |
| 440-188722-1 | TRIPBLANK1707200500 | 440-188722-1 | Water | 2017-07-20 | TB | Stage 2A | | | | | | | X | | | |
| 440-188722-1 | CTMW-01D-20170720 | 440-188722-2 | Water | 2017-07-20 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188722-1 | CTMW-01D-20170720MS | 440-188722-2MS | Water | 2017-07-20 | MS | Stage 2A | | | | X | | | | | | X |
| 440-188722-1 | CTMW-01D-20170720MSD | 440-188722-2MSD | Water | 2017-07-20 | MSD | Stage 2A | | | | X | | | | | | |
| 440-188722-1 | CTMW-01D-20170720-FD | 440-188722-3 | Water | 2017-07-20 | FD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188726-1 | CTMW-01S-20170720 | 440-188726-1 | Water | 2017-07-20 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-188726-1 | CTMW-01S-20170720MS | 440-188726-1MS | Water | 2017-07-20 | MS | Stage 2A | | | X | | | | | | | |
| 440-188726-1 | CTMW-01S-20170720MSD | 440-188726-1MSD | Water | 2017-07-20 | MSD | Stage 2A | | | X | | | | | | | |
| 440-190307-1 | UFMW-06D-20170815 | 440-190307-1 | Water | 2017-08-15 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190307-1 | UFMW-06D-20170815MS | 440-190307-1MS | Water | 2017-08-15 | MS | Stage 2A | | | X | | X | | | | | |
| 440-190307-1 | UFMW-06D-20170815MSD | 440-190307-1MSD | Water | 2017-08-15 | MSD | Stage 2A | | | X | | X | | | | | |
| 440-190307-1 | UFMW-06I-20170815 | 440-190307-2 | Water | 2017-08-15 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190307-1 | UFMW-06I-20170815MS | 440-190307-2MS | Water | 2017-08-15 | MS | Stage 2A | | | | | X | | | | | |
| 440-190307-1 | UFMW-06I-20170815MSD | 440-190307-2MSD | Water | 2017-08-15 | MSD | Stage 2A | | | | | X | | | | | |
| 440-190307-1 | UFMW-06I-20170815-FD | 440-190307-3 | Water | 2017-08-15 | FD | Stage 2A | | | X | | X | | | | | |
| 440-190307-1 | UFMW-06I-20170815-FDMS | 440-190307-3MS | Water | 2017-08-15 | MS | Stage 2A | | | X | | | | | | | |
| 440-190307-1 | UFMW-06I-20170815-FDMSD | 440-190307-3MSD | Water | 2017-08-15 | MSD | Stage 2A | | | X | | | | | | | |
| 440-190307-1 | UFMW-06S-20170815 | 440-190307-4 | Water | 2017-08-15 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190307-1 | UFMW-05D-20170815 | 440-190307-5 | Water | 2017-08-15 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190400-1 | UFMW-01I-20170816 | 440-190400-1 | Water | 2017-08-16 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190402-1 | UFMW-05I-20170816 | 440-190402-1 | Water | 2017-08-16 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190402-1 | UFMW-05S-20170816 | 440-190402-2 | Water | 2017-08-16 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190402-1 | UFMW-05S-20170816MS | 440-190402-2MS | Water | 2017-08-16 | MS | Stage 2A | | | | | X | | | | | |
| 440-190402-1 | UFMW-05S-20170816MSD | 440-190402-2MSD | Water | 2017-08-16 | MSD | Stage 2A | | | | | X | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand | Total Organic Carbon | Calcium, Magnesium, Potassium, Sodium | Metals | Chromium VI | Mercury | Volatile Organic Compounds | pH | Total Organic Carbon | Volatile Fatty Acids |
|--------------|-------------------------|-----------------|--------|-------------|---------|------------------|------------------------|----------------------|---------------------------------------|------------|-------------|-------------|----------------------------|-------------|----------------------|----------------------|
| | | | | | | | by SM5220D | by SM5310B | by SW-6010B | by SW-6020 | by SW-7199 | by SW-7471A | by SW-8260B | by SW-9045C | by SW-9060 | by VFA-IC |
| 440-190402-1 | UFMW-04D-20170816 | 440-190402-3 | Water | 2017-08-16 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190402-1 | UFMW-04I-20170816 | 440-190402-4 | Water | 2017-08-16 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190402-1 | UFMW-04S-20170816 | 440-190402-5 | Water | 2017-08-16 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190402-1 | UFMW-01D-20170816 | 440-190402-6 | Water | 2017-08-16 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190453-1 | UFMW-01S-20170817 | 440-190453-1 | Water | 2017-08-17 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190453-1 | UFMW-01S-20170817MS | 440-190453-1MS | Water | 2017-08-17 | MS | Stage 2A | | | X | | | | | | | |
| 440-190453-1 | UFMW-01S-20170817MSD | 440-190453-1MSD | Water | 2017-08-17 | MSD | Stage 2A | | | X | | | | | | | |
| 440-190453-1 | UFMW-03D-20170817 | 440-190453-2 | Water | 2017-08-17 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190453-1 | UFMW-03I-20170817 | 440-190453-3 | Water | 2017-08-17 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190453-1 | UFMW-03I-20170817-FD | 440-190453-4 | Water | 2017-08-17 | FD | Stage 2A | | | X | | X | | | | | |
| 440-190453-1 | UFMW-02D-20170817 | 440-190453-5 | Water | 2017-08-17 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190453-1 | UFMW-02I-20170817 | 440-190453-6 | Water | 2017-08-17 | NORM | Stage 2A | | | X | | X | | | | | |
| 440-190453-1 | UFMW-02I-20170817MS | 440-190453-6MS | Water | 2017-08-17 | MS | Stage 2A | | | | | | | | | | |
| 440-190453-1 | UFMW-02I-20170817MSD | 440-190453-6MSD | Water | 2017-08-17 | MSD | Stage 2A | | | | | | | | | | |
| 440-190752-1 | CTMW-06D-20170822 | 440-190752-1 | Water | 2017-08-22 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190752-1 | CTMW-06D-20170822MS | 440-190752-1MS | Water | 2017-08-22 | MS | Stage 2A | | | X | X | | | | | | |
| 440-190752-1 | CTMW-06D-20170822MSD | 440-190752-1MSD | Water | 2017-08-22 | MSD | Stage 2A | | | X | X | | | | | | |
| 440-190752-1 | CTMW-05D-20170822 | 440-190752-2 | Water | 2017-08-22 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190752-1 | CTMW-06S-20170822 | 440-190752-3 | Water | 2017-08-22 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190752-1 | CTMW-05S-20170822 | 440-190752-4 | Water | 2017-08-22 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190752-1 | CTMW-05S-20170822MS | 440-190752-4MS | Water | 2017-08-22 | MS | Stage 2A | | | | | | | | | | |
| 440-190752-1 | CTMW-05S-20170822MSD | 440-190752-4MSD | Water | 2017-08-22 | MSD | Stage 2A | | | | | | | | | | |
| 440-190752-1 | CTMW-06D-20170822-TB | 440-190752-5 | Water | 2017-08-22 | TB | Stage 2A | | | | | | | X | | | |
| 440-190843-1 | CTMW-03D-20170823 | 440-190843-1 | Water | 2017-08-23 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190843-1 | CTMW-03D-20170823MS | 440-190843-1MS | Water | 2017-08-23 | MS | Stage 2A | | | | | | | | | | |
| 440-190843-1 | CTMW-03D-20170823MSD | 440-190843-1MSD | Water | 2017-08-23 | MSD | Stage 2A | | | | | | | | | | |
| 440-190847-1 | CTMW-04D-20170823 | 440-190847-1 | Water | 2017-08-23 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190847-1 | CTMW-04D-20170823-FD | 440-190847-2 | Water | 2017-08-23 | FD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190847-1 | CTMW-04D-20170823-FDMS | 440-190847-2MS | Water | 2017-08-23 | MS | Stage 2A | | | | | | | | | | |
| 440-190847-1 | CTMW-04D-20170823-FDMSD | 440-190847-2MSD | Water | 2017-08-23 | MSD | Stage 2A | | | | | | | | | | |
| 440-190847-1 | CTMW-04S-20170823 | 440-190847-3 | Water | 2017-08-23 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190847-1 | CTMW-03S-20170823 | 440-190847-4 | Water | 2017-08-23 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190847-1 | CTMW-03S-20170823MS | 440-190847-4MS | Water | 2017-08-23 | MS | Stage 2A | | | | X | | | | | | |
| 440-190847-1 | CTMW-03S-20170823MSD | 440-190847-4MSD | Water | 2017-08-23 | MSD | Stage 2A | | | | X | | | | | | |
| 440-190950-1 | CTMW-02D-20170824 | 440-190950-1 | Water | 2017-08-24 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190950-1 | CTMW-02D-20170824MS | 440-190950-1MS | Water | 2017-08-24 | MS | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190950-1 | CTMW-02D-20170824MSD | 440-190950-1MSD | Water | 2017-08-24 | MSD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190950-1 | CTMW-01D-20170824 | 440-190950-2 | Water | 2017-08-24 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190950-1 | CTMW-01S-20170824 | 440-190950-3 | Water | 2017-08-24 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-190950-1 | CTMW-02D-20170824-TB | 440-190950-4 | Water | 2017-08-24 | TB | Stage 2A | | | | | | | X | | | |
| 440-192518-1 | CTMW-06D-20170919 | 440-192518-1 | Water | 2017-09-19 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192518-1 | CTMW-06D-20170919MS | 440-192518-1 | Water | 2017-09-19 | MS | Stage 2A | | | X | X | | | | | | |
| 440-192518-1 | CTMW-06D-20170919SD | 440-192518-1 | Water | 2017-09-19 | MSD | Stage 2A | | | X | X | | | | | | |
| 440-192518-1 | CTMW-06D-20170919-FD | 440-192518-2 | Water | 2017-09-19 | FD | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192518-1 | CTMW-06S-20170919 | 440-192518-3 | Water | 2017-09-19 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192518-1 | CTMW-05D-20170919 | 440-192518-4 | Water | 2017-09-19 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192518-1 | CTMW-05D-20170919MS | 440-192518-4 | Water | 2017-09-19 | MS | Stage 2A | | | X | | | | | | | |
| 440-192518-1 | CTMW-05D-20170919SD | 440-192518-4 | Water | 2017-09-19 | MSD | Stage 2A | | | X | | | | | | | |
| 440-192518-1 | CTMW-05S-20170919 | 440-192518-5 | Water | 2017-09-19 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192617-1 | CTMW-02D-20170920 | 440-192617-1 | Water | 2017-09-20 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192617-1 | CTMW-02D-20170920MS | 440-192617-1MS | Water | 2017-09-20 | MS | Stage 2A | | | | X | | | | | | |
| 440-192617-1 | CTMW-02D-20170920MSD | 440-192617-1MSD | Water | 2017-09-20 | MSD | Stage 2A | | | | X | | | | | | |
| 440-192619-1 | CTMW-01D-20170920 | 440-192619-1 | Water | 2017-09-20 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192619-1 | CTMW-01D-20170920MS | 440-192619-1MS | Water | 2017-09-20 | MS | Stage 2A | | | X | | | | | | | X |
| 440-192619-1 | CTMW-01D-20170920MSD | 440-192619-1MSD | Water | 2017-09-20 | MSD | Stage 2A | | | X | | | | | | | X |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand | Total Organic Carbon | Calcium, Magnesium, Potassium, Sodium | Metals | Chromium VI | Mercury | Volatile Organic Compounds | pH | Total Organic Carbon | Volatile Fatty Acids |
|--------------|----------------------|-----------------|--------|-------------|---------|------------------|------------------------|----------------------|---------------------------------------|------------|-------------|-------------|----------------------------|-------------|----------------------|----------------------|
| | | | | | | | by SM5220D | by SM5310B | by SW-6010B | by SW-6020 | by SW-7199 | by SW-7471A | by SW-8260B | by SW-9045C | by SW-9060 | by VFA-IC |
| 440-192619-1 | CTMW-01S-20170920 | 440-192619-2 | Water | 2017-09-20 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192619-1 | CTMW-02S-20170920 | 440-192619-3 | Water | 2017-09-20 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192619-1 | CTMW-04D-20170920 | 440-192619-4 | Water | 2017-09-20 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192711-1 | CTMW-04S-20170921 | 440-192711-1 | Water | 2017-09-21 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192711-1 | CTMW-04S-20170921MS | 440-192711-1MS | Water | 2017-09-21 | MS | Stage 2A | | | | | | | | | | |
| 440-192711-1 | CTMW-04S-20170921MSD | 440-192711-1MSD | Water | 2017-09-21 | MSD | Stage 2A | | | | | | | | | | |
| 440-192711-1 | CTMW-03D-20170921 | 440-192711-2 | Water | 2017-09-21 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192711-1 | CTMW-03D-20170921MS | 440-192711-2MS | Water | 2017-09-21 | MS | Stage 2A | | | | | | | | | | |
| 440-192711-1 | CTMW-03D-20170921MSD | 440-192711-2MSD | Water | 2017-09-21 | MSD | Stage 2A | | | | | | | | | | |
| 440-192711-1 | CTMW-03S-20170921 | 440-192711-3 | Water | 2017-09-21 | NORM | Stage 2A | X | X | X | X | X | | X | | | X |
| 440-192711-1 | CTMW-03S-20170921MS | 440-192711-3MS | Water | 2017-09-21 | MS | Stage 2A | | | | X | | | | | | |
| 440-192711-1 | CTMW-03S-20170921MSD | 440-192711-3MSD | Water | 2017-09-21 | MSD | Stage 2A | | | | X | | | | | | |
| 440-193441-1 | M12_20171003-TB | 440-193441-1 | Water | 2017-10-03 | TB | Stage 2A | | | | | | | X | | | |
| 440-193441-1 | CTMW-01D-20171003 | 440-193441-2 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193441-1 | CTMW-01D-20171003MS | 440-193441-2 | Water | 2017-10-03 | MS | Stage 2B | | | | | | | | | | X |
| 440-193441-1 | CTMW-01D-20171003SD | 440-193441-2 | Water | 2017-10-03 | MSD | Stage 2B | | | | | | | | | | X |
| 440-193441-1 | CTMW-02D-20171003 | 440-193441-3 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193441-1 | CTMW-01S-20171003 | 440-193441-4 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193441-1 | CTMW-01S-20171003MS | 440-193441-4 | Water | 2017-10-03 | MS | Stage 2B | | | | | | | | | | |
| 440-193441-1 | CTMW-01S-20171003SD | 440-193441-4 | Water | 2017-10-03 | MSD | Stage 2B | | | | | | | | | | |
| 440-193441-1 | CTMW-02S-20171003 | 440-193441-5 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193441-1 | CTMW-02S-20171003MS | 440-193441-5 | Water | 2017-10-03 | MS | Stage 2B | | | | | X | | | | | |
| 440-193441-1 | CTMW-02S-20171003SD | 440-193441-5 | Water | 2017-10-03 | MSD | Stage 2B | | | | | X | | | | | |
| 440-193441-1 | CTMW-03D-20171003 | 440-193441-6 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193441-1 | CTMW-04D-20171003 | 440-193441-7 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193441-1 | CTMW-03S-20171003 | 440-193441-8 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193441-1 | CTMW-04S-20171003 | 440-193441-9 | Water | 2017-10-03 | NORM | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193441-1 | CTMW-04S-20171003MS | 440-193441-9 | Water | 2017-10-03 | MS | Stage 2B | | | | | | | | | | |
| 440-193441-1 | CTMW-04S-20171003SD | 440-193441-9 | Water | 2017-10-03 | MSD | Stage 2B | | | | | | | | | | |
| 440-193508-1 | CTMW-06S-20171004 | 440-193508-1 | Water | 2017-10-04 | NORM | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193508-1 | CTMW-06S-20171004MS | 440-193508-1 | Water | 2017-10-04 | MS | Stage 2B | | | X | | | | | | | |
| 440-193508-1 | CTMW-06S-20171004SD | 440-193508-1 | Water | 2017-10-04 | MSD | Stage 2B | | | X | | | | | | | |
| 440-193514-1 | TRIPBLANK1710040700 | 440-193514-1 | Water | 2017-10-04 | TB | Stage 2A | | | | | | | X | | | |
| 440-193514-1 | CTMW-06D-20171004 | 440-193514-2 | Water | 2017-10-04 | NORM | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193514-1 | CTMW-06D-20171004MS | 440-193514-2MS | Water | 2017-10-04 | MS | Stage 2B | | | | | | | | | | X |
| 440-193514-1 | CTMW-06D-20171004-FD | 440-193514-3 | Water | 2017-10-04 | FD | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193514-1 | CTMW-05S-20171004 | 440-193514-5 | Water | 2017-10-04 | NORM | Stage 2B | X | X | X | X | X | | X | | | X |
| 440-193514-2 | CTMW-05D-20171004 | 440-193514-4 | Water | 2017-10-04 | NORM | Stage 4 | X | X | X | X | X | | X | | | X |
| 440-193514-2 | CTMW-05D-20171004MS | 440-193514-4MS | Water | 2017-10-04 | MS | Stage 4 | X | X | X | X | X | | X | | | X |
| 440-193514-2 | CTMW-05D-20171004MSD | 440-193514-4MSD | Water | 2017-10-04 | MSD | Stage 4 | X | X | X | X | X | | X | | | X |
| 440-193552-1 | UFMW-05I-20171004 | 440-193552-1 | Water | 2017-10-04 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193552-1 | UFMW-05I-20171004MS | 440-193552-1MS | Water | 2017-10-04 | MS | Stage 2A | | | | X | X | | | | | |
| 440-193552-1 | UFMW-05I-20171004MSD | 440-193552-1MSD | Water | 2017-10-04 | MSD | Stage 2A | | | | X | X | | | | | |
| 440-193552-1 | UFMW-05D-20171004 | 440-193552-2 | Water | 2017-10-04 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193552-1 | UFMW-06I-20171004 | 440-193552-3 | Water | 2017-10-04 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193552-1 | UFMW-06D-20171004 | 440-193552-4 | Water | 2017-10-04 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193674-1 | UFMW-01D-20171005 | 440-193674-1 | Water | 2017-10-05 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193677-1 | UFMW-04S-20171005 | 440-193677-1 | Water | 2017-10-05 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193677-1 | UFMW-04I-20171005 | 440-193677-2 | Water | 2017-10-05 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193677-1 | UFMW-05S-20171005 | 440-193677-3 | Water | 2017-10-05 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193677-1 | UFMW-06S-20171005 | 440-193677-4 | Water | 2017-10-05 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193677-1 | UFMW-06S-20171005MS | 440-193677-4MS | Water | 2017-10-05 | MS | Stage 2A | | | | X | X | | | | | |
| 440-193677-1 | UFMW-06S-20171005MSD | 440-193677-4MSD | Water | 2017-10-05 | MSD | Stage 2A | | | | X | X | | | | | |
| 440-193677-1 | UFMW-04D-20171005 | 440-193677-5 | Water | 2017-10-05 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193677-1 | UFMW-04D-20171005-FD | 440-193677-6 | Water | 2017-10-05 | FD | Stage 2A | | | | X | X | | | | | |

Table 2 Sample Cross-Reference

| SDG | Client Sample ID | Lab Sample ID | Matrix | Sample Date | QC Type | Validation Stage | Chemical Oxygen Demand by SM5220D | Total Organic Carbon by SM5310B | Calcium, Magnesium, Potassium, Sodium by SW-6010B | Metals by SW-6020 | Chromium VI by SW-7199 | Mercury by SW-7471A | Volatile Organic Compounds by SW-8260B | pH by SW-9045C | Total Organic Carbon by SW-9060 | Volatile Fatty Acids by VFA-IC |
|--------------|-------------------|---------------|--------|-------------|---------|------------------|--------------------------------------|------------------------------------|--|----------------------|---------------------------|------------------------|---|-------------------|------------------------------------|-----------------------------------|
| 440-193776-1 | UFMW-01I-20171006 | 440-193776-1 | Water | 2017-10-06 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193776-1 | UFMW-02I-20171006 | 440-193776-2 | Water | 2017-10-06 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193776-1 | UFMW-02D-20171006 | 440-193776-3 | Water | 2017-10-06 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193776-1 | UFMW-03I-20171006 | 440-193776-4 | Water | 2017-10-06 | NORM | Stage 2A | | | | X | X | | | | | |
| 440-193776-1 | UFMW-03D-20171006 | 440-193776-5 | Water | 2017-10-06 | NORM | Stage 2A | | | | X | X | | | | | |

Table 3 Validation Qualifiers and Definitions

| Validation Qualifier | Definition |
|-----------------------------|--|
| J- | The result is an estimated quantity, but the result may be biased low. |
| J | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| U | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit. |
| UJ | The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. |
| R | The data are unuseable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample. |

Table 4 Validation Checks and Stages

| Verification and Validation Checks | Stage 2A | Stage 2B | Stage 4 |
|---|----------|----------|---------|
| Documentation identifies the laboratory receiving and conducting analyses, and includes documentation for all samples submitted by the project or requester for analyses. | X | X | X |
| Requested analytical methods were performed and the analysis dates are present. | X | X | X |
| Requested target analyte results are reported along with the original laboratory data qualifiers and data qualifier definitions for each reported result (and the uncertainty of each result and clear indication of the type of uncertainty reported if required, e.g., for radiochemical analyses). | X | X | X |
| Requested target analyte result units are reported (along with their associated uncertainty units if required, e.g., for radiochemical analyses). | X | X | X |
| Requested reporting limits for all samples are present and results at and below the requested (required) reporting limits are clearly identified (including sample detection limits if required). | X | X | X |
| Sampling dates (including times if needed), date and time of laboratory receipt of samples, and sample conditions upon receipt at the laboratory (including preservation, pH and temperature) are documented | X | X | X |
| For radiochemical analyses, the sample-specific critical values (sometimes called "critical level," "decision level" or "detection threshold") and sample specific minimum detectable value, activity or concentration for all samples are reported and results at and below the requested (required) critical values are clearly identified | X | X | X |
| For radiochemical analyses, the chemical yield (if applicable to the method) and reference date and time (especially for short lived isotopes) is reported for all samples (as appropriate). | X | X | X |
| Sample results are evaluated by comparing sample conditions upon receipt at the laboratory (e.g., preservation checks) and sample characteristics (e.g., percent moisture) to the requirements and guidelines present in national or regional data validation documents, analytical method(s) or contract. | X | X | X |
| Requested methods (handling, preparation, cleanup, and analytical) are performed | X | X | X |
| Method dates (including dates, times and duration of analysis for radiation counting measurements and other methods, if needed) for handling (e.g., Toxicity Characteristic Leaching Procedure), preparation, cleanup and analysis are present, as appropriate. | X | X | X |
| Sample-related QC data and QC acceptance criteria (e.g., method blanks, surrogate recoveries, deuterated monitoring compounds (DMC) recoveries, laboratory control sample (LCS) recoveries, duplicate analyses, matrix spike and matrix spike duplicate recoveries, serial dilutions, post digestion spikes, standard reference materials) are provided and linked to the reported field samples (including the field quality control samples such as trip and equipment blanks). | X | X | X |
| Requested spike analytes or compounds (e.g., surrogate, DMCs, LCS spikes, post digestion spikes) have been added, as appropriate. | X | X | X |
| Sample holding times (from sampling date to preparation and preparation to analysis) are evaluated. | X | X | X |
| Frequency of QC samples is checked for appropriateness (e.g., one LCS per twenty samples in a preparation batch). | X | X | X |

Table 4 Validation Checks and Stages

| Verification and Validation Checks | Stage 2A | Stage 2B | Stage 4 |
|---|----------|----------|---------|
| Sample results are evaluated by comparing holding times and sample-related QC data to the requirements and guidelines present in national or regional data validation documents, analytical method(s) or contract | X | X | X |
| Initial calibration data (e.g., initial calibration standards, initial calibration verification [ICV] standards, initial calibration blanks [ICBs]) are provided for all requested analytes and linked to field samples reported. For each initial calibration, the calibration type used is present along with the initial calibration equation used including any weighting factor(s) applied and the associated correlation coefficients, as appropriate. Recalculations of the standard concentrations using the initial calibration curve are present, along with their associated percent recoveries, as appropriate (e.g., if required by the project, method, or contract). For the ICV standard, the associated percent recovery (or percent difference, as appropriate) is present. | | X | X |
| Appropriate number and concentration of initial calibration standards are present. | | X | X |
| Continuing calibration data (e.g., continuing calibration verification [CCV] standards and continuing calibration blanks [CCBs]) are provided for all requested analytes and linked to field samples reported, as appropriate. For the CCV standard(s), the associated percent recoveries (or percent differences, as appropriate) are present. | | X | X |
| Reported samples are bracketed by CCV standards and CCBs standards as appropriate. | | X | X |
| Method specific instrument performance checks are present as appropriate (e.g., tunes for mass spectrometry methods, DDT/Endrin breakdown checks for pesticides and aroclors, instrument blanks and interference checks for ICP methods). | | X | X |
| Frequency of instrument QC samples is checked for appropriateness (e.g., gas chromatography-mass spectroscopy [GC-MS] tunes have been run every 12 hours). | | X | X |
| Sample results are evaluated by comparing instrument-related QC data to the requirements and guidelines present in national or regional data validation documents, analytical method(s) or contract. | | X | X |
| Instrument response data (e.g., GC peak areas, ICP corrected intensities) are reported for requested analytes, surrogates, internal standards, and DMCs for all requested field samples, matrix spikes, matrix spike duplicates, LCS, and method blanks as well as calibration data and instrument QC checks (e.g., tunes, DDT/Endrin breakdowns, interelement correction factors, and Florisil cartridge checks). | | | X |
| Reported target analyte instrument responses are associated with appropriate internal standard analyte(s) for each (or selected) analyte(s) (for methods using internal standard for calibration). | | | X |
| Fit and appropriateness of the initial calibration curve used or required (e.g., mean calibration factor, regression analysis [linear or non-linear, with or without weighting factors, with or without forcing]) is checked with recalculation of the initial calibration curve for each (or selected) analyte(s) from the instrument response. | | | X |
| Comparison of instrument response to the minimum response requirements for each (or selected) analyte(s). | | | X |

Table 4 Validation Checks and Stages

| Verification and Validation Checks | Stage 2A | Stage 2B | Stage 4 |
|---|----------|----------|---------|
| Recalculation of each (or selected) opening and closing CCV (and CCB) response from the peak data reported for each (or selected) analyte(s) from the instrument response, as appropriate. | | | X |
| Compliance check of recalculated opening and/or closing CCV (and CCB) response to recalculated initial calibration response for each (or selected) analyte(s). | | | X |
| Recalculation of percent ratios for each (or selected) tune from the instrument response, as appropriate. | | | X |
| Compliance check of recalculated percent ratio for each (or selected) tune from the instrument response. | | | X |
| Recalculation of each (or selected) instrument performance check (e.g., DDT/Endrin breakdown for pesticide analysis, instrument blanks, interference checks) from the instrument response. | | | X |
| Recalculation and compliance check of retention time windows (for chromatographic methods) for each (or selected) analyte(s) from the laboratory reported retention times. | | | X |
| Recalculation of reported results for each reported (or selected) target analyte(s) from the instrument response. | | | X |
| Recalculation of each (or selected) reported spike recovery (surrogate recoveries, DMC recoveries, LCS recoveries, duplicate analyses, matrix spike and matrix spike duplicate recoveries, serial dilutions, post digestion spikes, standard reference materials etc.) from the instrument response. | | | X |
| Each (or selected) sample result(s) and spike recovery(ies) are evaluated by comparing the recalculated numbers to the laboratory reported numbers according to the requirements and guidelines present in national or regional data validation documents, analytical method(s) or contract. | | | X |
| All required instrument outputs (e.g., chromatograms, mass spectra, atomic emission spectra, instrument background corrections, and interference corrections) for evaluating sample and instrument performance are present. | | | X |
| Sample results are evaluated by checking each (or selected) instrument output (e.g., chromatograms, mass spectra, atomic emission spectra data, instrument background corrections, interference corrections) for correct identification and quantitation of analytes (e.g., peak integrations, use of appropriate internal standards for quantitation, elution order of analytes, and interferences). | | | X |
| Each (or selected) instrument's output(s) is evaluated for confirmation of non-detected or tentatively identified analytes. | | | X |

Table 5 Reason Codes

| Reason Code | Description of Qualification |
|-------------|--|
| 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 (for wells without dedicated pumps) |
| 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 % difference exceeded |
| e | Sample 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 or retention times |
| 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 |
| 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 between MDL/SQL and RL/PQL |
| st | Sample receipt temperature exceeded |
| t | Qualified due to elevated helium tracer concentrations |
| vh | Headspace detected in aqueous sample containers submitted for volatile analysis |
| x | Qualified due to low % solids |
| z | Qualified due to interference check sample results |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|----------------|---------|-------|---------------|--------|-------|---------------------|-------------|----------------------------|
| 440-154551-1 | UFIW-02D-20160803 | 8/3/2016 | SW-6010B | Total | Chromium | 0.025 | mg/L | F1F2 | 0.0025 | 0.005 | J | ld,m | Lab RPD, MS %Recovery |
| 440-154557-1 | UFIW-02I-20160803-EB | 8/3/2016 | SW-6010B | Total | Chromium | 0.0036 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-154692-1 | UFIW-03S-20160804 | 8/4/2016 | SW-7199 | Total | Chromium [VI] | 0.25 | ug/L | UF1 | 0.25 | 2 | UJ | m | MS %Recovery |
| 440-154930-1 | UFMW-03I-20160808 | 8/8/2016 | EPA 314.0 | Total | Perchlorate | 1400000 | ug/L | | 25000 | 50000 | J+ | be | EB |
| 440-155247-1 | UFMW-02I-20160810 | 8/10/2016 | EPA 314.0 | Total | Perchlorate | 1900000 | ug/L | | 25000 | 50000 | J+ | be | EB |
| 440-155966-1 | UFIW-08I-20160817-EB | 8/17/2016 | EPA 314.0 | Total | Perchlorate | 0.83 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-156174-1 | UFIW-05S-20160819-FB | 8/19/2016 | EPA 314.0 | Total | Perchlorate | 0.89 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-156174-1 | UFIW-05S-20160819 | 8/19/2016 | SW-6010B | Total | Chromium | 0.0032 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-156174-1 | UFMW-05S-20160819 | 8/19/2016 | SW-6010B | Total | Chromium | 0.16 | mg/L | F1 | 0.005 | 0.01 | J+ | m | MS %Recovery |
| 440-156174-1 | UFIW-05S-20160819 | 8/19/2016 | SW-7199 | Total | Chromium [VI] | 0.65 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-156745-1 | UFIW-06I-20160826 | 8/26/2016 | VFA-IC | Total | Acetic acid | 0.29 | mg/L | U | 0.29 | 1 | UJ | o | Other |
| 440-156745-1 | UFIW-06S-20160826 | 8/26/2016 | VFA-IC | Total | Acetic acid | 0.29 | mg/L | U | 0.29 | 1 | UJ | o | Other |
| 440-156745-1 | UFIW-06I-20160826 | 8/26/2016 | VFA-IC | Total | Formic-acid | 0.26 | mg/L | U | 0.26 | 1 | UJ | o | Other |
| 440-156745-1 | UFIW-06S-20160826 | 8/26/2016 | VFA-IC | Total | Formic-acid | 0.26 | mg/L | U | 0.26 | 1 | UJ | o | Other |
| 440-156745-1 | UFIW-06I-20160826 | 8/26/2016 | VFA-IC | Total | Lactic acid | 0.31 | mg/L | U | 0.31 | 1 | UJ | o | Other |
| 440-156745-1 | UFIW-06S-20160826 | 8/26/2016 | VFA-IC | Total | Lactic acid | 0.31 | mg/L | U | 0.31 | 1 | UJ | o | Other |
| 440-156745-1 | UFIW-06I-20160826 | 8/26/2016 | VFA-IC | Total | n-Butyric Acid | 0.26 | mg/L | U | 0.26 | 1 | UJ | o | Other |
| 440-156745-1 | UFIW-06S-20160826 | 8/26/2016 | VFA-IC | Total | n-Butyric Acid | 0.26 | mg/L | U | 0.26 | 1 | UJ | o | Other |
| 440-156745-1 | UFIW-06I-20160826 | 8/26/2016 | VFA-IC | Total | Propionic acid | 0.35 | mg/L | U | 0.35 | 1 | UJ | o | Other |
| 440-156745-1 | UFIW-06S-20160826 | 8/26/2016 | VFA-IC | Total | Propionic acid | 0.35 | mg/L | U | 0.35 | 1 | UJ | o | Other |
| 440-156745-1 | UFIW-06I-20160826 | 8/26/2016 | VFA-IC | Total | Pyruvic Acid | 0.37 | mg/L | U | 0.37 | 1.5 | UJ | o | Other |
| 440-156745-1 | UFIW-06S-20160826 | 8/26/2016 | VFA-IC | Total | Pyruvic Acid | 0.37 | mg/L | U | 0.37 | 1.5 | UJ | o | Other |
| 440-159110-1 | UFMW-03D-20160920 | 9/20/2016 | SM4500-S2-D | Total | Sulfide | 0.032 | mg/L | J | 0.01 | 0.1 | J | sp | Detect < PQL |
| 440-159110-1 | UFMW-03D-20160920 | 9/20/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159117-1 | UFMW-01D-20160920 | 9/20/2016 | SM4500-S2-D | Total | Sulfide | 0.0672 | mg/L | J | 0.01 | 0.1 | J | sp | Detect < PQL |
| 440-159117-1 | UFMW-01D-20160920 | 9/20/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159117-1 | UFMW-01I-20160920 | 9/20/2016 | SM4500-S2-D | Total | Sulfide | 0.0703 | mg/L | J | 0.01 | 0.1 | J | sp | Detect < PQL |
| 440-159117-1 | UFMW-01I-20160920 | 9/20/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159117-1 | UFMW-01S-20160920 | 9/20/2016 | SM4500-S2-D | Total | Sulfide | 0.43 | mg/L | J | 0.05 | 0.5 | J | h,sp | Holding Time, Detect < PQL |
| 440-159117-1 | UFMW-01S-20160920 | 9/20/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159117-1 | UFMW-02D-20160920 | 9/20/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159117-1 | UFMW-02I-20160920 | 9/20/2016 | SM4500-S2-D | Total | Sulfide | 0.0396 | mg/L | J | 0.01 | 0.1 | J | sp | Detect < PQL |
| 440-159117-1 | UFMW-02S-20160920 | 9/20/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.05 | mg/L | U | 0.05 | 0.5 | UJ | h | Holding Time |
| 440-159117-1 | UFMW-02S-20160920 | 9/20/2016 | SM4500-S2-D | Total | Sulfide | 1.77 | mg/L | J | 0.2 | 2 | J | h,sp | Holding Time, Detect < PQL |
| 440-159117-1 | UFMW-03I-20160920 | 9/20/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159117-1 | UFMW-03I-20160920-FD | 9/20/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159117-1 | UFMW-01S-20160920 | 9/20/2016 | SW-6010B | Dissolved | Iron | 0.033 | mg/L | J | 0.01 | 0.04 | J | sp | Detect < PQL |
| 440-159260-1 | UFMW-03D-20160921 | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159260-1 | UFMW-03D-20160921 | 9/21/2016 | SM4500-S2-D | Total | Sulfide | 0.0213 | mg/L | J | 0.01 | 0.1 | J | sp | Detect < PQL |
| 440-159262-1 | UFMW-01D-20160921 | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159262-1 | UFMW-01I-20160921 | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159262-1 | UFMW-01S-20160921 | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159262-1 | UFMW-01S-20160921 | 9/21/2016 | SM4500-S2-D | Total | Sulfide | 0.2 | mg/L | J | 0.05 | 0.5 | J | sp | Detect < PQL |
| 440-159262-1 | UFMW-02D-20160921 | 9/21/2016 | SM4500-S2-D | Total | Sulfide | 0.0264 | mg/L | J | 0.01 | 0.1 | J | sp | Detect < PQL |
| 440-159262-1 | UFMW-02D-20160921 | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159262-1 | UFMW-02I-20160921 | 9/21/2016 | SM4500-S2-D | Total | Sulfide | 0.0105 | mg/L | J | 0.01 | 0.1 | J | sp | Detect < PQL |
| 440-159262-1 | UFMW-02I-20160921 | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159262-1 | UFMW-02S-20160921 | 9/21/2016 | SM4500-S2-D | Total | Sulfide | 0.657 | mg/L | J | 0.1 | 1 | J | sp | Detect < PQL |
| 440-159262-1 | UFMW-02S-20160921 | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.05 | mg/L | U | 0.05 | 0.5 | UJ | h | Holding Time |
| 440-159262-1 | UFMW-03I-20160921 | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159262-1 | UFMW-03I-20160921-FD | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159262-1 | UFMW-02S-20160921 | 9/21/2016 | SW-7199 | Total | Chromium [VI] | 1.5 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|---------------|--------|-------|---------------|------|------|---------------------|-------------|----------------------------|
| 440-159323-1 | UFMW-01D-20160921B | 9/21/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159323-1 | UFMW-01D-20160921B | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159323-1 | UFMW-01I-20160921B | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159323-1 | UFMW-01I-20160921-FD | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159323-1 | UFMW-01S-20160921B | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159323-1 | UFMW-02D-20160921B | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159323-1 | UFMW-02D-20160921B | 9/21/2016 | SM4500-S2-D | Total | Sulfide | 0.017 | mg/L | J | 0.01 | 0.1 | J | sp | Detect < PQL |
| 440-159323-1 | UFMW-02I-20160921B | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159323-1 | UFMW-03D-20160921B | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159323-1 | UFMW-03I-20160921B | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159323-1 | UFMW-02I-20160921B | 9/21/2016 | SW-6010B | Dissolved | Iron | 0.028 | mg/L | J | 0.01 | 0.04 | J | sp | Detect < PQL |
| 440-159323-1 | UFMW-01D-20160921B | 9/21/2016 | SW-7199 | Total | Chromium [VI] | 22 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-159323-1 | UFMW-01I-20160921B | 9/21/2016 | SW-7199 | Total | Chromium [VI] | 24 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-159323-1 | UFMW-01I-20160921-FD | 9/21/2016 | SW-7199 | Total | Chromium [VI] | 23 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-159323-1 | UFMW-01S-20160921B | 9/21/2016 | SW-7199 | Total | Chromium [VI] | 1.1 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-159323-1 | UFMW-02D-20160921B | 9/21/2016 | SW-7199 | Total | Chromium [VI] | 25 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-159323-1 | UFMW-02I-20160921B | 9/21/2016 | SW-7199 | Total | Chromium [VI] | 25 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-159323-1 | UFMW-03D-20160921B | 9/21/2016 | SW-7199 | Total | Chromium [VI] | 38 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-159323-1 | UFMW-03I-20160921B | 9/21/2016 | SW-7199 | Total | Chromium [VI] | 19 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-159324-1 | UFMW-02S-20160921B | 9/21/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.05 | mg/L | U | 0.05 | 0.5 | UJ | h | Holding Time |
| 440-159324-1 | UFMW-02S-20160921B | 9/21/2016 | SW-6010B | Dissolved | Iron | 0.03 | mg/L | J | 0.02 | 0.08 | J | sp | Detect < PQL |
| 440-159324-1 | UFMW-02S-20160921B | 9/21/2016 | SW-7199 | Total | Chromium [VI] | 1.9 | ug/L | JH | 0.25 | 2 | J | sp,h | Detect < PQL, Holding Time |
| 440-159419-1 | UFMW-02S-20160922 | 9/22/2016 | SM4500-S2-D | Total | Sulfide | 0.892 | mg/L | J | 0.1 | 1 | J | sp | Detect < PQL |
| 440-159419-1 | UFMW-03I-20160922 | 9/22/2016 | SM4500-S2-D | Total | Sulfide | 0.0142 | mg/L | J | 0.01 | 0.1 | J | sp | Detect < PQL |
| 440-159419-1 | UFMW-02I-20160922 | 9/22/2016 | SW-6010B | Dissolved | Iron | 0.021 | mg/L | J | 0.01 | 0.04 | J | sp | Detect < PQL |
| 440-159514-1 | UFMW-01D-20160922B | 9/22/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159514-1 | UFMW-01I-20160922B | 9/22/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159514-1 | UFMW-01I-20160922-FD | 9/22/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159514-1 | UFMW-01S-20160922B | 9/22/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U | 0.02 | 0.2 | UJ | h | Holding Time |
| 440-159514-1 | UFMW-02I-20160922B | 9/22/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159514-1 | UFMW-02S-20160922B | 9/22/2016 | SM4500-S2-D | Total | Sulfide | 0.394 | mg/L | J | 0.05 | 0.5 | J | sp | Detect < PQL |
| 440-159514-1 | UFMW-02S-20160922B | 9/22/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.05 | mg/L | U | 0.05 | 0.5 | UJ | h | Holding Time |
| 440-159514-1 | UFMW-03D-20160922B | 9/22/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159514-1 | UFMW-03D-20160922B | 9/22/2016 | SM4500-S2-D | Total | Sulfide | 0.0442 | mg/L | J | 0.01 | 0.1 | J | sp | Detect < PQL |
| 440-159514-1 | UFMW-03I-20160922B | 9/22/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159514-1 | UFMW-01D-20160922B | 9/22/2016 | SW-6010B | Dissolved | Iron | 0.013 | mg/L | J | 0.01 | 0.04 | J | sp | Detect < PQL |
| 440-159514-1 | UFMW-02S-20160922B | 9/22/2016 | SW-6010B | Dissolved | Iron | 0.072 | mg/L | J | 0.02 | 0.08 | J | sp | Detect < PQL |
| 440-159520-1 | UFMW-02D-20160922B | 9/22/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159565-1 | UFMW-01D-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159565-1 | UFMW-01S-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.268 | mg/L | | 0.01 | 0.1 | J- | h | Holding Time |
| 440-159565-1 | UFMW-02D-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159565-1 | UFMW-02I-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159565-1 | UFMW-02S-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.455 | mg/L | J | 0.05 | 0.5 | J | h,sp | Holding Time, Detect < PQL |
| 440-159565-1 | UFMW-03D-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.0628 | mg/L | J | 0.01 | 0.1 | J | h,sp | Holding Time, Detect < PQL |
| 440-159565-1 | UFMW-03I-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159565-1 | UFMW-03I-20160923-FD | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159565-1 | UFMW-01D-20160923 | 9/23/2016 | SW-6010B | Dissolved | Iron | 0.01 | mg/L | UF1 | 0.01 | 0.04 | UJ | m | MS %Recovery |
| 440-159565-1 | UFMW-01D-20160923 | 9/23/2016 | SW-7199 | Total | Chromium [VI] | 28 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-159565-1 | UFMW-03I-20160923-FD | 9/23/2016 | SW-7199 | Total | Chromium [VI] | 19 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-159573-1 | UFMW-01I-20160923 | 9/23/2016 | SW-7199 | Total | Chromium [VI] | 25 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-159613-1 | UFIW-04I-20160923 | 9/23/2016 | EPA 314.0 | Total | Perchlorate | 33 | ug/L | | 0.5 | 1 | J | fd | FD |
| 440-159613-1 | UFIW-04I-20160923-FD | 9/23/2016 | EPA 314.0 | Total | Perchlorate | 350 | ug/L | | 5 | 10 | J | fd | FD |
| 440-159613-1 | UFIW-01D-20160923 | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|---------------|--------|-------|---------------|--------|-------|---------------------|-------------|----------------------------|
| 440-159613-1 | UFIW-01D-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFIW-01I-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFIW-01I-20160923 | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.125 | mg/L | | 0.01 | 0.1 | J- | h | Holding Time |
| 440-159613-1 | UFIW-01S-20160923 | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 1.13 | mg/L | | 0.05 | 0.5 | J- | h | Holding Time |
| 440-159613-1 | UFIW-01S-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.0862 | mg/L | J | 0.01 | 0.1 | J | h,sp | Holding Time, Detect < PQL |
| 440-159613-1 | UFIW-02D-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFIW-02D-20160923 | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFIW-02I-20160923 | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.0789 | mg/L | J | 0.01 | 0.1 | J | h,sp | Holding Time, Detect < PQL |
| 440-159613-1 | UFIW-02I-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.0351 | mg/L | J | 0.01 | 0.1 | J | h,sp | Holding Time, Detect < PQL |
| 440-159613-1 | UFIW-02S-20160923 | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 3.63 | mg/L | | 0.1 | 1 | J- | h | Holding Time |
| 440-159613-1 | UFIW-02S-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.301 | mg/L | | 0.01 | 0.1 | J- | h | Holding Time |
| 440-159613-1 | UFIW-03I-20160923 | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.26 | mg/L | | 0.01 | 0.1 | J- | h | Holding Time |
| 440-159613-1 | UFIW-03I-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.0606 | mg/L | J | 0.01 | 0.1 | J | h,sp | Holding Time, Detect < PQL |
| 440-159613-1 | UFIW-04D-20160923 | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 3.84 | mg/L | | 0.1 | 1 | J- | h | Holding Time |
| 440-159613-1 | UFIW-04D-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.6 | mg/L | | 0.01 | 0.1 | J- | h | Holding Time |
| 440-159613-1 | UFIW-04I-20160923 | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.132 | mg/L | | 0.01 | 0.1 | J- | h | Holding Time |
| 440-159613-1 | UFIW-04I-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.0337 | mg/L | J | 0.01 | 0.1 | J | h,sp | Holding Time, Detect < PQL |
| 440-159613-1 | UFIW-04I-20160923-FD | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.159 | mg/L | | 0.01 | 0.1 | J- | h | Holding Time |
| 440-159613-1 | UFIW-04I-20160923-FD | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.0391 | mg/L | J | 0.01 | 0.1 | J | h,sp | Holding Time, Detect < PQL |
| 440-159613-1 | UFIW-04S-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.269 | mg/L | | 0.01 | 0.1 | J- | h | Holding Time |
| 440-159613-1 | UFIW-04S-20160923-FD | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.34 | mg/L | | 0.01 | 0.1 | J- | h | Holding Time |
| 440-159613-1 | UFMW-01D-20160923B | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-01D-20160923B | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-01I-20160923B | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-01I-20160923B | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-01S-20160923B | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-01S-20160923B | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.14 | mg/L | | 0.01 | 0.1 | J- | h | Holding Time |
| 440-159613-1 | UFMW-02D-20160923B | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-02D-20160923B | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-02I-20160923B | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-02I-20160923B | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-02S-20160923B | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.05 | mg/L | U | 0.05 | 0.5 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-02S-20160923B | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.236 | mg/L | J | 0.05 | 0.5 | J | h,sp | Holding Time, Detect < PQL |
| 440-159613-1 | UFMW-03D-20160923B | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-03D-20160923B | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.0741 | mg/L | J | 0.01 | 0.1 | J | h,sp | Holding Time, Detect < PQL |
| 440-159613-1 | UFMW-03I-20160923B | 9/23/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFMW-03I-20160923B | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 0.01 | mg/L | U | 0.01 | 0.1 | UJ | h | Holding Time |
| 440-159613-1 | UFIW-04S-20160923 | 9/23/2016 | SW-6010B | Total | Calcium | 370 | mg/L | | 0.05 | 0.1 | J | fd | FD |
| 440-159613-1 | UFIW-04S-20160923-FD | 9/23/2016 | SW-6010B | Total | Calcium | 780 | mg/L | | 0.1 | 0.2 | J | fd | FD |
| 440-159613-1 | UFIW-04D-20160923 | 9/23/2016 | SW-6010B | Total | Chromium | 0.0043 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-159613-1 | UFIW-04S-20160923 | 9/23/2016 | SW-6010B | Total | Chromium | 0.028 | mg/L | | 0.0025 | 0.005 | J | fd | FD |
| 440-159613-1 | UFIW-04S-20160923-FD | 9/23/2016 | SW-6010B | Total | Chromium | 0.096 | mg/L | | 0.0025 | 0.005 | J | fd | FD |
| 440-159613-1 | UFMW-01S-20160923B | 9/23/2016 | SW-6010B | Total | Chromium | 0.0086 | mg/L | J | 0.005 | 0.01 | J | sp | Detect < PQL |
| 440-159613-1 | UFIW-03I-20160923 | 9/23/2016 | SW-7199 | Total | Chromium [VI] | 0.33 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-159616-1 | UFIW-03D-20160923 | 9/23/2016 | EPA 300.0 | Total | Nitrate | 66 | mg/L | F2 | 11 | 22 | J | ld | Lab RPD |
| 440-159616-1 | UFIW-03D-20160923 | 9/23/2016 | EPA 300.0 | Total | Sulfate | 1100 | mg/L | F1 | 50 | 100 | J- | m | MS %Recovery |
| 440-159616-1 | UFIW-03D-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 6.57 | mg/L | | 0.25 | 2.5 | J- | h | Holding Time |
| 440-159616-1 | UFIW-03S-20160923 | 9/23/2016 | SM4500-S2-D | Total | Sulfide | 3.7 | mg/L | | 0.2 | 2 | J- | h | Holding Time |
| 440-159616-1 | UFIW-03D-20160923 | 9/23/2016 | SW-6010B | Total | Chromium | 0.0071 | mg/L | J | 0.005 | 0.01 | J | sp | Detect < PQL |
| 440-164756-1 | UFIW-08I-20161104 | 11/4/2016 | EPA 314.0 | Total | Perchlorate | 2700 | ug/L | | 50 | 100 | J | fd | FD |
| 440-164756-1 | UFIW-08I-20161104-FD | 11/4/2016 | EPA 314.0 | Total | Perchlorate | 460 | ug/L | | 2.5 | 5 | J | fd | FD |
| 440-164756-1 | UFIW-05D-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | UJ | h | Holding Time |
| 440-164756-1 | UFIW-05I-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.12 | mg/L | HF | 0.02 | 0.05 | J- | h | Holding Time |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|---------------------------|-------------|-------------|--------------------|---------------|--------|-------|---------------|--------|-------|---------------------|-------------|----------------------------|
| 440-164756-1 | UFIW-05S-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 79 | mg/L | HF | 4 | 10 | J- | h | Holding Time |
| 440-164756-1 | UFIW-06D-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | UJ | h | Holding Time |
| 440-164756-1 | UFIW-06I-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 2.2 | mg/L | HF | 0.1 | 0.25 | J- | h | Holding Time |
| 440-164756-1 | UFIW-06S-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 16 | mg/L | HF | 1 | 2.5 | J- | h | Holding Time |
| 440-164756-1 | UFIW-07D-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | UJ | h | Holding Time |
| 440-164756-1 | UFIW-07I-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 5.9 | mg/L | HF | 0.4 | 1 | J- | h | Holding Time |
| 440-164756-1 | UFIW-07S-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 12 | mg/L | HF | 0.4 | 1 | J- | h | Holding Time |
| 440-164756-1 | UFIW-08D-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | UJ | h | Holding Time |
| 440-164756-1 | UFIW-08D-20161104 | 11/4/2016 | SM4500-S2-D | Total | Sulfide | 0.034 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-164756-1 | UFIW-08I-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 4.6 | mg/L | HF | 0.4 | 1 | J | fd,h | FD, Holding Time |
| 440-164756-1 | UFIW-08I-20161104 | 11/4/2016 | SM4500-S2-D | Total | Sulfide | 10 | mg/L | | 0.4 | 1 | J | fd | FD |
| 440-164756-1 | UFIW-08I-20161104-FD | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 13 | mg/L | HF | 0.4 | 1 | J | fd,h | FD, Holding Time |
| 440-164756-1 | UFIW-08I-20161104-FD | 11/4/2016 | SM4500-S2-D | Total | Sulfide | 19 | mg/L | | 0.4 | 1 | J | fd | FD |
| 440-164756-1 | UFMW-04D-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | R | o | Other |
| 440-164756-1 | UFMW-04I-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | R | o | Other |
| 440-164756-1 | UFMW-04S-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | R | o | Other |
| 440-164756-1 | UFMW-05I-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | R | o | Other |
| 440-164756-1 | UFMW-05S-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | R | o | Other |
| 440-164756-1 | UFMW-06D-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | R | o | Other |
| 440-164756-1 | UFMW-06I-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | R | o | Other |
| 440-164756-1 | UFMW-06S-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | R | o | Other |
| 440-164756-1 | UFIW-08I-20161104 | 11/4/2016 | SW-6010B | Total | Calcium | 210 | mg/L | | 0.1 | 0.2 | J | fd | FD |
| 440-164756-1 | UFIW-08I-20161104-FD | 11/4/2016 | SW-6010B | Total | Calcium | 380 | mg/L | | 0.1 | 0.2 | J | fd | FD |
| 440-164756-1 | UFIW-07S-20161104 | 11/4/2016 | SW-6010B | Total | Chromium | 0.0041 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-164756-1 | UFIW-08D-20161104 | 11/4/2016 | SW-6010B | Total | Chromium | 0.0043 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-164756-1 | UFIW-08I-20161104-FD | 11/4/2016 | SW-6010B | Total | Chromium | 0.0093 | mg/L | J | 0.005 | 0.01 | J | sp | Detect < PQL |
| 440-164756-1 | UFIW-05I-20161104 | 11/4/2016 | SW-6010B | Dissolved | Iron | 0.024 | mg/L | J | 0.01 | 0.04 | J | sp | Detect < PQL |
| 440-164756-1 | UFIW-06I-20161104 | 11/4/2016 | SW-6010B | Dissolved | Iron | 0.015 | mg/L | J B | 0.01 | 0.04 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-164756-1 | UFIW-07S-20161104 | 11/4/2016 | SW-6010B | Dissolved | Iron | 0.052 | mg/L | J B | 0.05 | 0.2 | J | sp | Detect < PQL |
| 440-164756-1 | E1-1-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 24 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-164756-1 | E1-3-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 73 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-164756-1 | UFIW-05S-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 2.5 | ug/L | U H | 2.5 | 20 | UJ | h | Holding Time |
| 440-164756-1 | UFIW-06D-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 3.2 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-164756-1 | UFIW-06I-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 1.3 | ug/L | U H | 1.3 | 10 | UJ | h | Holding Time |
| 440-164756-1 | UFIW-06S-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 250 | ug/L | U H | 250 | 2000 | UJ | h | Holding Time |
| 440-164756-1 | UFIW-07D-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 16 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-164756-1 | UFIW-07I-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 1.3 | ug/L | U H | 1.3 | 10 | UJ | h | Holding Time |
| 440-164756-1 | UFIW-07S-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 1.3 | ug/L | U H | 1.3 | 10 | UJ | h | Holding Time |
| 440-164756-1 | UFIW-08D-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 1.3 | ug/L | U H | 1.3 | 10 | UJ | h | Holding Time |
| 440-164756-1 | UFIW-08I-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 250 | ug/L | U H | 250 | 2000 | UJ | h | Holding Time |
| 440-164756-1 | UFIW-08I-20161104-FD | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 25 | ug/L | U H | 25 | 200 | UJ | h | Holding Time |
| 440-164756-1 | UFMW-04I-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 36 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-164756-2 | UFIW-08-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 34 | mg/L | HF | 4 | 10 | J- | h | Holding Time |
| 440-164756-2 | UFMW-05D-20161104 | 11/4/2016 | SM4500-S2-D | Dissolved | Sulfide | 0.02 | mg/L | U HF | 0.02 | 0.05 | UJ | h | Holding Time |
| 440-164756-2 | UFIW-08-20161104 | 11/4/2016 | SW-7199 | Dissolved | Chromium [VI] | 25 | ug/L | U H | 25 | 200 | UJ | h | Holding Time |
| 440-167308-1 | CTIW-01D-0.5-20161128 | 11/28/2016 | SW-7199 | N/A | Chromium [VI] | 0.19 | mg/kg | J | 0.17 | 0.34 | J | sp | Detect < PQL |
| 440-167511-1 | CTIW-01D-35.0-20161129-EB | 11/29/2016 | SW-7199 | Total | Chromium [VI] | 0.27 | ug/L | JH | 0.25 | 2 | J | h,sp | Holding Time, Detect < PQL |
| 440-167511-1 | CTIW-01D-GW-36.0-20161129 | 11/29/2016 | SW-7199 | Total | Chromium [VI] | 13000 | ug/L | H | 250 | 2000 | J- | h | Holding Time |
| 440-167620-1 | CTMW-03-0.5-20161130 | 11/30/2016 | EPA 314.0 | N/A | Perchlorate | 0.7 | mg/kg | F1 | 0.02 | 0.084 | J+ | m | MS %Recovery |
| 440-167766-1 | CTMW-03-55.0-20161201 | 12/1/2016 | SW-7199 | N/A | Chromium [VI] | 9.2 | mg/kg | F2 | 0.2 | 0.39 | J | ld | Lab RPD |
| 440-167766-1 | CTMW-03-60.0-20161201-EB | 12/1/2016 | SW-7199 | Total | Chromium [VI] | 0.25 | ug/L | UH | 0.25 | 2 | UJ | h | Holding Time |
| 440-174831-1 | 20170126-FB | 1/26/2017 | EPA 314.0 | Total | Perchlorate | 0.58 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-174831-1 | UFMW-02S-20170126 | 1/26/2017 | SW-7199 | Total | Chromium [VI] | 0.43 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|---------------------------|-------------|-------------------|--------------------|------------------------|---------|-------|---------------|---------|---------|---------------------|-------------|-------------------------------------|
| 440-174984-1 | UFMW-05S-20170127 | 1/27/2017 | SW-7199 | Total | Chromium [VI] | 1 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-180057-1 | CTMW-01D-0.5-20170320 | 3/20/2017 | EPA 300.1B | N/A | Chlorate | 200 | ug/kg | J | 56 | 220 | J | sp | Detect < PQL |
| 440-180057-1 | CTIW-03D-0.5-20170320-EB | 3/20/2017 | SW-7199 | Total | Chromium [VI] | 0.25 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-180057-1 | CTMW-02D-0.5-20170320 | 3/20/2017 | SW-7199 | N/A | Chromium [VI] | 0.24 | mg/kg | J F1 | 0.17 | 0.34 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-180057-1 | CTMW-04D-0.5-20170320 | 3/20/2017 | SW-7199 | N/A | Chromium [VI] | 0.22 | mg/kg | J | 0.16 | 0.33 | J | sp | Detect < PQL |
| 440-180320-1 | CTMW-04D-5.0-20170322 | 3/22/2017 | EPA 300.1B | N/A | Chlorate | 3200 | ug/kg | F1 | 540 | 2200 | J- | m | MS %Recovery |
| 440-180320-1 | CTMW-04D-10.0-20170322 | 3/22/2017 | SW-7199 | N/A | Chromium [VI] | 0.26 | mg/kg | J | 0.16 | 0.32 | J | sp | Detect < PQL |
| 440-180320-1 | CTMW-04D-15.0-20170322 | 3/22/2017 | SW-7199 | N/A | Chromium [VI] | 0.2 | mg/kg | J | 0.16 | 0.31 | J | sp | Detect < PQL |
| 440-180320-2 | CTMW-04D-40.0-20170322 | 3/22/2017 | EPA 300.0-soluble | Total | Nitrate | 31 | mg/L | F2 F1 | 2.5 | 5 | J | h,m,ld | Holding Time, MS %Recovery, Lab RPD |
| 440-180320-2 | CTMW-04D-40.0-20170322 | 3/22/2017 | SW-6020 | N/A | Molybdenum | 0.61 | mg/kg | J | 0.49 | 0.99 | J | sp | Detect < PQL |
| 440-180521-1 | CTMW-02D-60.0-20170323 | 3/23/2017 | SW-7199 | N/A | Chromium [VI] | 14 | mg/kg | F1 | 0.24 | 0.47 | J- | m | MS %Recovery |
| 440-180521-2 | CTMW-02D-40.0-20170323 | 3/23/2017 | EPA 300.0-soluble | Dissolved | Nitrate | 37 | mg/L | | 2.5 | 5 | J- | h | Holding Time |
| 440-180521-2 | CTMW-02D-40.0-20170323 | 3/23/2017 | SW-6010B-soluble | Total | Potassium | 3.8 | mg/L | J | 2.5 | 5 | J | sp | Detect < PQL |
| 440-180521-2 | CTMW-02D-40.0-20170323 | 3/23/2017 | SW-6020 | N/A | Molybdenum | 0.62 | mg/kg | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-180521-2 | CTMW-02D-40.0-20170323 | 3/23/2017 | SW-6020 | N/A | Silver | 0.29 | mg/kg | J B | 0.1 | 0.5 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-180564-1 | CTIW-02D-10.0-20170324 | 3/24/2017 | EPA 300.1B | N/A | Chlorate | 980 | ug/kg | F1 | 59 | 240 | J- | m | MS %Recovery |
| 440-180564-1 | CTIW-02D-15.0-20170324 | 3/24/2017 | EPA 314.0 | N/A | Perchlorate | 120 | mg/kg | | 2 | 8.5 | J | fd | FD |
| 440-180564-1 | CTIW-02D-15.0-20170324-FD | 3/24/2017 | EPA 314.0 | N/A | Perchlorate | 65 | mg/kg | | 2.2 | 9.3 | J | fd | FD |
| 440-180590-1 | CTIW-02D-5.0-20170324 | 3/24/2017 | SW-7199 | N/A | Chromium [VI] | 0.2 | mg/kg | J | 0.16 | 0.33 | J | sp | Detect < PQL |
| 440-180694-1 | CTIW-02S-22.0-20170327 | 3/27/2017 | EPA 300.0-soluble | Total | Nitrate | 360 | mg/L | | 25 | 50 | J- | h | Holding Time |
| 440-180694-1 | CTIW-03S-22.0-20170327 | 3/27/2017 | EPA 300.0-soluble | Total | Nitrate | 330 | mg/L | | 25 | 50 | J- | h | Holding Time |
| 440-180694-1 | CTIW-03D-10.0-20170327 | 3/27/2017 | EPA 314.0 | N/A | Perchlorate | 72 | mg/kg | | 2.1 | 8.7 | J | fd | FD |
| 440-180694-1 | CTIW-03D-10.0-20170327-FD | 3/27/2017 | EPA 314.0 | N/A | Perchlorate | 40 | mg/kg | | 0.51 | 2.1 | J | fd | FD |
| 440-180694-1 | CTIW-03D-25.0-20170327 | 3/27/2017 | SW-6010B | N/A | Chromium | 42 | mg/kg | | 0.86 | 1.7 | J | fd | FD |
| 440-180694-1 | CTIW-03D-25.0-20170327-FD | 3/27/2017 | SW-6010B | N/A | Chromium | 25 | mg/kg | | 1.5 | 3 | J | fd | FD |
| 440-180694-1 | CTIW-02S-22.0-20170327 | 3/27/2017 | SW-6010B-soluble | Dissolved | Potassium | 3.4 | mg/L | J | 2.5 | 5 | J | sp | Detect < PQL |
| 440-180694-1 | CTIW-03S-22.0-20170327 | 3/27/2017 | SW-6010B-soluble | Dissolved | Potassium | 3.1 | mg/L | J | 2.5 | 5 | J | sp | Detect < PQL |
| 440-180694-1 | CTIW-02S-22.0-20170327 | 3/27/2017 | SW-6020 | N/A | Antimony | 1.7 | mg/kg | U F1 | 1.7 | 6.4 | UJ | m | MS %Recovery |
| 440-180694-1 | CTIW-02S-22.0-20170327 | 3/27/2017 | SW-6020 | N/A | Barium | 26 | mg/kg | F1 | 1.6 | 3.2 | J+ | m | MS %Recovery |
| 440-180694-1 | CTIW-02S-22.0-20170327 | 3/27/2017 | SW-6020 | N/A | Cobalt | 3.1 | mg/kg | J | 1.3 | 3.2 | J | sp | Detect < PQL |
| 440-180694-1 | CTIW-03D-41.5-20170327 | 3/27/2017 | SW-6020 | N/A | Silver | 1.2 | mg/kg | J | 0.72 | 3.6 | J | sp | Detect < PQL |
| 440-180694-1 | CTIW-03D-41.5-20170327 | 3/27/2017 | SW-6020 | N/A | Zinc | 42 | mg/kg | J | 36 | 72 | J | sp | Detect < PQL |
| 440-180694-1 | CTIW-03D-5.0-20170327 | 3/27/2017 | SW-7199 | N/A | Chromium [VI] | 0.16 | mg/kg | J | 0.16 | 0.32 | J | sp | Detect < PQL |
| 440-180694-1 | CTIW-03S-22.0-20170327 | 3/27/2017 | SW-7199 | N/A | Chromium [VI] | 0.22 | mg/kg | J | 0.17 | 0.34 | J | sp | Detect < PQL |
| 440-180694-1 | CTIW-02S-22.0-20170327 | 3/27/2017 | SW-7471A | N/A | Mercury | 0.015 | mg/kg | J | 0.015 | 0.025 | J | sp | Detect < PQL |
| 440-181198-1 | CTIW-02S-20170403 | 4/3/2017 | EPA 365.3 | Total | Orthophosphate | 0.049 | mg/L | J F1 | 0.02 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-181198-1 | CTIW-02S-20170403 | 4/3/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.15 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-181198-1 | CTIW-02S-20170403 | 4/3/2017 | RSK175 | Total | Methane | 0.00034 | mg/L | J | 0.00025 | 0.00099 | J | sp | Detect < PQL |
| 440-181198-1 | CTMW-01D-20170403 | 4/3/2017 | SM4500-S2-D | Total | Sulfide | 0.044 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-181291-1 | CTIW-02D-20170404 | 4/4/2017 | EPA 365.3 | Total | Orthophosphate | 0.073 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-181291-1 | CTIW-03D-20170404 | 4/4/2017 | EPA 365.3 | Total | Orthophosphate | 0.051 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-181291-1 | CTIW-03S-20170404 | 4/4/2017 | EPA 365.3 | Total | Orthophosphate | 0.041 | mg/L | J | 0.02 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-181291-1 | CTMW-01S-20170404 | 4/4/2017 | EPA 365.3 | Total | Orthophosphate | 0.067 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | EPA 365.3 | Total | Orthophosphate | 0.074 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-181291-1 | CTMW-02D-20170404-FD | 4/4/2017 | EPA 365.3 | Total | Orthophosphate | 0.081 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-181291-1 | CTIW-02D-20170404 | 4/4/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.22 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-181291-1 | CTIW-03D-20170404 | 4/4/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.16 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-181291-1 | CTIW-03S-20170404 | 4/4/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.13 | mg/L | J | 0.06 | 0.15 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-181291-1 | CTMW-01S-20170404 | 4/4/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.21 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.23 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-181291-1 | CTMW-02D-20170404-FD | 4/4/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.25 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-181291-1 | CTIW-02D-20170404 | 4/4/2017 | EPA 365.3 | Total | Phosphorus | 0.041 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-181291-1 | CTIW-03D-20170404 | 4/4/2017 | EPA 365.3 | Total | Phosphorus | 0.035 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|--------------------------------------|--------|-------|---------------|-------|------|---------------------|-------------|----------------------------|
| 440-181291-1 | CTMW-01S-20170404 | 4/4/2017 | EPA 365.3 | Total | Phosphorus | 0.026 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | EPA 365.3 | Total | Phosphorus | 0.045 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-181291-1 | CTIW-02D-20170404 | 4/4/2017 | SM4500-S2-D | Total | Sulfide | 0.028 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-181291-1 | CTIW-03D-20170404 | 4/4/2017 | SM4500-S2-D | Total | Sulfide | 0.028 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-01S-20170404 | 4/4/2017 | SM4500-S2-D | Total | Sulfide | 0.024 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404-FD | 4/4/2017 | SM4500-S2-D | Total | Sulfide | 0.025 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-181291-1 | CTIW-02D-20170404 | 4/4/2017 | SW-6010B | Total | Manganese | 0.056 | mg/L | J | 0.05 | 0.1 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | SW-6010B | Total | Manganese | 0.09 | mg/L | J | 0.05 | 0.1 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404-FD | 4/4/2017 | SW-6010B | Total | Manganese | 0.076 | mg/L | J | 0.05 | 0.1 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404-FD | 4/4/2017 | SW-6020 | Dissolved | Aluminum | 6.4 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-181291-1 | CTIW-03D-20170404 | 4/4/2017 | SW-6020 | Dissolved | Cobalt | 0.64 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | SW-6020 | Dissolved | Cobalt | 0.8 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404-FD | 4/4/2017 | SW-6020 | Dissolved | Cobalt | 0.76 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-181291-1 | CTIW-03D-20170404 | 4/4/2017 | SW-6020 | Dissolved | Copper | 1.6 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | SW-6020 | Dissolved | Copper | 1.9 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404-FD | 4/4/2017 | SW-6020 | Dissolved | Copper | 1.8 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181291-1 | CTIW-02D-20170404 | 4/4/2017 | SW-6020 | Dissolved | Nickel | 5.3 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-01S-20170404 | 4/4/2017 | SW-6020 | Dissolved | Nickel | 5.5 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | SW-6020 | Dissolved | Selenium | 4.2 | ug/L | F1 | 0.5 | 2 | J- | m | MS %Recovery |
| 440-181291-1 | CTIW-02D-20170404 | 4/4/2017 | SW-6020 | Dissolved | Zinc | 74 | ug/L | J | 25 | 200 | J | sp | Detect < PQL |
| 440-181291-1 | CTIW-03D-20170404 | 4/4/2017 | SW-6020 | Dissolved | Zinc | 4.7 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | SW-6020 | Dissolved | Zinc | 3.6 | ug/L | J F2 | 2.5 | 20 | J | ld,sp | Lab RPD, Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404-FD | 4/4/2017 | SW-6020 | Dissolved | Zinc | 4.7 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | SW-8260B | Total | 1,2-Dichlorobenzene | 9.4 | ug/L | J | 6.3 | 13 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404-FD | 4/4/2017 | SW-8260B | Total | 1,2-Dichlorobenzene | 9.4 | ug/L | J | 6.3 | 13 | J | sp | Detect < PQL |
| 440-181291-1 | CTIW-03D-20170404 | 4/4/2017 | SW-8260B | Total | 1,4-Dichlorobenzene | 7 | ug/L | J | 6.3 | 13 | J | sp | Detect < PQL |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | VFA-IC | Total | Formic-acid | 0.26 | mg/L | U F1 | 0.26 | 1 | UJ | m | MS %Recovery |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | VFA-IC | Total | Lactic acid | 0.31 | mg/L | U F1 | 0.31 | 1 | UJ | m | MS %Recovery |
| 440-181291-1 | CTMW-02D-20170404 | 4/4/2017 | VFA-IC | Total | n-Butyric Acid | 0.26 | mg/L | U F1 | 0.26 | 1 | UJ | m | MS %Recovery |
| 440-181291-1 | CTIW-03S-20170404 | 4/4/2017 | VFA-IC | Total | Pyruvic Acid | 7.4 | mg/L | U F1 | 7.4 | 30 | UJ | m | MS %Recovery |
| 440-181417-1 | CTIW-01S-20170405 | 4/5/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.12 | mg/L | J | 0.1 | 0.2 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-03S-20170405 | 4/5/2017 | EPA 365.3 | Total | Orthophosphate | 0.036 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-04D-20170405 | 4/5/2017 | EPA 365.3 | Total | Orthophosphate | 0.029 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-03S-20170405 | 4/5/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.11 | mg/L | J | 0.06 | 0.15 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-04D-20170405 | 4/5/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.089 | mg/L | J | 0.06 | 0.15 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-04S-20170405 | 4/5/2017 | EPA 365.3 | Total | Phosphorus | 0.037 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-04D-20170405 | 4/5/2017 | SM4500-S2-D | Total | Sulfide | 0.02 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-181417-1 | CTIW-01S-20170405 | 4/5/2017 | SW-6010B | Total | Manganese | 0.011 | mg/L | J | 0.01 | 0.02 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-04D-20170405 | 4/5/2017 | SW-6010B | Total | Manganese | 0.013 | mg/L | J | 0.01 | 0.02 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-03S-20170405 | 4/5/2017 | SW-6020 | Dissolved | Manganese | 9.1 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-02S-20170405 | 4/5/2017 | SW-6020 | Dissolved | Nickel | 11 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-04S-20170405 | 4/5/2017 | SW-6020 | Dissolved | Nickel | 7.2 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-02S-20170405 | 4/5/2017 | SW-6020 | Dissolved | Zinc | 86 | ug/L | J F1 | 25 | 200 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-181417-1 | CTMW-04S-20170405 | 4/5/2017 | SW-8260B | Total | Bromoform | 0.82 | ug/L | J | 0.4 | 1 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-04S-20170405 | 4/5/2017 | SW-8260B | Total | Carbon tetrachloride | 0.41 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-03S-20170405 | 4/5/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 21 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-04S-20170405 | 4/5/2017 | SW-8260B | Total | Tetrachloroethene | 0.26 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-181417-1 | CTMW-03S-20170405 | 4/5/2017 | VFA-IC | Total | Formic-acid | 1.3 | mg/L | U F1 | 1.3 | 5 | UJ | m | MS %Recovery |
| 440-181417-1 | CTMW-03S-20170405 | 4/5/2017 | VFA-IC | Total | Lactic acid | 1.6 | mg/L | U F1 | 1.6 | 5 | UJ | m | MS %Recovery |
| 440-181417-1 | CTMW-03S-20170405 | 4/5/2017 | VFA-IC | Total | Pyruvic Acid | 1.9 | mg/L | U F1 | 1.9 | 7.5 | UJ | m | MS %Recovery |
| 440-181550-1 | CTIW-01D-20170406 | 4/6/2017 | EPA 365.3 | Total | Orthophosphate | 0.05 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-181550-1 | CTMW-03D-20170406 | 4/6/2017 | EPA 365.3 | Total | Orthophosphate | 0.038 | mg/L | J | 0.02 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-181550-1 | CTIW-01D-20170406 | 4/6/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.15 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|------------|--------------------|------------------------|--------|-------|---------------|--------|-------|---------------------|-------------|----------------------------|
| 440-181550-1 | CTMW-03D-20170406 | 4/6/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.12 | mg/L | J | 0.06 | 0.15 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-181550-1 | CTMW-03D-20170406 | 4/6/2017 | SW-6020 | Dissolved | Aluminum | 110 | ug/L | B F1 | 50 | 100 | J- | m | MS %Recovery |
| 440-181550-1 | CTIW-01D-20170406 | 4/6/2017 | SW-6020 | Dissolved | Nickel | 5 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-181550-1 | CTIW-01D-20170406 | 4/6/2017 | SW-6020 | Dissolved | Zinc | 74 | ug/L | J | 25 | 200 | J | sp | Detect < PQL |
| 440-181550-1 | CTMW-03D-20170406 | 4/6/2017 | SW-6020 | Dissolved | Zinc | 36 | ug/L | J F1 | 25 | 200 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-181552-1 | UFMW-04I-20170406 | 4/6/2017 | SW-6020 | Dissolved | Copper | 1.8 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181552-1 | UFMW-04I-20170406 | 4/6/2017 | SW-6020 | Dissolved | Nickel | 1.3 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181552-1 | UFMW-04I-20170406 | 4/6/2017 | SW-6020 | Dissolved | Zinc | 5.9 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181552-1 | UFMW-04I-20170406 | 4/6/2017 | SW-7199 | Dissolved | Chromium [VI] | 42 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-181652-1 | UFMW-05S-20170407 | 4/7/2017 | SW-6010B | Total | Chromium | 0.0046 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-181652-1 | UFMW-04S-20170407 | 4/7/2017 | SW-6020 | Dissolved | Antimony | 0.68 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181652-1 | UFMW-04S-20170407 | 4/7/2017 | SW-6020 | Dissolved | Cobalt | 0.51 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-181652-1 | UFMW-05S-20170407 | 4/7/2017 | SW-6020 | Dissolved | Cobalt | 0.87 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-181652-1 | UFMW-04S-20170407 | 4/7/2017 | SW-6020 | Dissolved | Copper | 1.3 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181652-1 | UFMW-05I-20170407 | 4/7/2017 | SW-6020 | Dissolved | Copper | 1.9 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181652-1 | UFMW-05I-20170407 | 4/7/2017 | SW-6020 | Dissolved | Nickel | 1.2 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181652-1 | UFMW-04S-20170407 | 4/7/2017 | SW-6020 | Dissolved | Zinc | 4.7 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181652-1 | UFMW-05I-20170407 | 4/7/2017 | SW-6020 | Dissolved | Zinc | 4.6 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181652-1 | UFMW-05S-20170407 | 4/7/2017 | SW-6020 | Dissolved | Zinc | 7.1 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-06S-20170410 | 4/10/2017 | EPA 300.1B | Total | Chlorate | 1400 | ug/L | J | 1000 | 2000 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-05I-20170410 | 4/10/2017 | SW-6010B | Total | Chromium | 0.0029 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-05S-20170410 | 4/10/2017 | SW-6010B | Total | Chromium | 0.0054 | mg/L | J | 0.005 | 0.01 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-06S-20170410 | 4/10/2017 | SW-6010B | Total | Chromium | 0.0042 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-05S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Aluminum | 8.5 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-181739-1 | UFMW-06I-20170410 | 4/10/2017 | SW-6020 | Dissolved | Aluminum | 6 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-06S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Antimony | 1.3 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-07S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Antimony | 0.71 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-05S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Chromium | 0.99 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-05S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Cobalt | 0.6 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-06S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Cobalt | 0.59 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-07S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Cobalt | 0.71 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-181739-1 | UFMW-06S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Cobalt | 0.54 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-06S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Copper | 5.5 | ug/L | F1 | 0.5 | 2 | J- | m | MS %Recovery |
| 440-181739-1 | UFIW-05I-20170410 | 4/10/2017 | SW-6020 | Dissolved | Nickel | 4.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-06S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Selenium | 1.6 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-05S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Uranium | 0.75 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-05S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Zinc | 5.7 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-06S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Zinc | 11 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181739-1 | UFIW-07S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Zinc | 5.2 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181739-1 | UFMW-06I-20170410 | 4/10/2017 | SW-6020 | Dissolved | Zinc | 3.8 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181739-1 | UFMW-06I-20170410-FD | 4/10/2017 | SW-6020 | Dissolved | Zinc | 7.5 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181739-1 | UFMW-06S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Zinc | 6.3 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-181742-1 | UFIW-08S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Aluminum | 7.1 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-181742-1 | UFIW-08S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Antimony | 0.56 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181742-1 | UFIW-08S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Chromium | 1.1 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181742-1 | UFIW-08S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Cobalt | 0.61 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-181742-1 | UFIW-08S-20170410 | 4/10/2017 | SW-6020 | Dissolved | Selenium | 1.2 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-01S-20170411 | 4/11/2017 | SW-6010B | Total | Chromium | 0.0099 | mg/L | J | 0.005 | 0.01 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-03I-20170411 | 4/11/2017 | SW-6010B | Total | Chromium | 0.0025 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-03I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Aluminum | 31 | ug/L | J B F1 | 25 | 50 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-181867-1 | UFIW-01S-20170411 | 4/11/2017 | SW-6020 | Dissolved | Antimony | 2.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-02I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Chromium | 3.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-03I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Chromium | 2.6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|---------------|--------|-------|---------------|--------|-------|---------------------|-------------|------------------------|
| 440-181867-1 | UFIW-01S-20170411 | 4/11/2017 | SW-6020 | Dissolved | Copper | 9.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-06I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Copper | 7.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-07I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Copper | 6.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-08I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Copper | 7.1 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-01I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Copper | 5.7 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-02I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Copper | 5.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-03I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Copper | 6.2 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-01S-20170411 | 4/11/2017 | SW-6020 | Dissolved | Iron | 87 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-06I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Iron | 68 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-08I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Iron | 63 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-02I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Manganese | 4.4 | ug/L | J | 2.5 | 5 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-01S-20170411 | 4/11/2017 | SW-6020 | Dissolved | Nickel | 7.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-06I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Nickel | 4.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-07I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Nickel | 4.4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-08I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Nickel | 4.5 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-01I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Nickel | 6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-02I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Nickel | 3.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-03I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Nickel | 3.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-01I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Selenium | 2.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-03I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Selenium | 4.4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-01S-20170411 | 4/11/2017 | SW-6020 | Dissolved | Zinc | 14 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-06I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Zinc | 14 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-181867-1 | UFIW-07I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Zinc | 15 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-02I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Zinc | 15 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-03I-20170411 | 4/11/2017 | SW-6020 | Dissolved | Zinc | 18 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-01I-20170411 | 4/11/2017 | SW-7199 | Dissolved | Chromium [VI] | 1.3 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-181867-1 | UFMW-03I-20170411 | 4/11/2017 | SW-7199 | Dissolved | Chromium [VI] | 1.8 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-02S-20170412-FD | 4/12/2017 | EPA 300.0 | Dissolved | Nitrate | 0.48 | mg/L | J | 0.28 | 0.55 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-02S-20170412 | 4/12/2017 | EPA 300.1B | Dissolved | Chlorate | 170 | ug/L | J | 100 | 200 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-02S-20170412-FD | 4/12/2017 | EPA 300.1B | Dissolved | Chlorate | 170 | ug/L | J | 100 | 200 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-03I-20170412 | 4/12/2017 | EPA 300.1B | Dissolved | Chlorate | 160 | ug/L | J | 100 | 200 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-02S-20170412 | 4/12/2017 | SM4500-S2-D | Total | Sulfide | 1.4 | mg/L | | 0.2 | 0.5 | J | fd | FD |
| 440-181998-1 | UFIW-02S-20170412-FD | 4/12/2017 | SM4500-S2-D | Total | Sulfide | 0.58 | mg/L | | 0.02 | 0.05 | J | fd | FD |
| 440-181998-1 | UFIW-02I-20170412 | 4/12/2017 | SW-6010B | Total | Chromium | 0.0099 | mg/L | J | 0.005 | 0.01 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-04S-20170412 | 4/12/2017 | SW-6010B | Total | Chromium | 0.0034 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-02S-20170412-FD | 4/12/2017 | SW-6020 | Dissolved | Antimony | 3.1 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-03I-20170412 | 4/12/2017 | SW-6020 | Dissolved | Antimony | 3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-01I-20170412 | 4/12/2017 | SW-6020 | Dissolved | Iron | 78 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-03I-20170412 | 4/12/2017 | SW-6020 | Dissolved | Iron | 60 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-03S-20170412 | 4/12/2017 | SW-6020 | Dissolved | Iron | 43 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-01I-20170412 | 4/12/2017 | SW-6020 | Dissolved | Nickel | 5.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-02S-20170412 | 4/12/2017 | SW-6020 | Dissolved | Nickel | 5.5 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-02S-20170412-FD | 4/12/2017 | SW-6020 | Dissolved | Nickel | 5.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-03S-20170412 | 4/12/2017 | SW-6020 | Dissolved | Nickel | 3.2 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-04S-20170412 | 4/12/2017 | SW-6020 | Dissolved | Nickel | 4.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181998-1 | UFMW-02S-20170412 | 4/12/2017 | SW-6020 | Dissolved | Nickel | 2.6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181998-1 | UFMW-02S-20170412 | 4/12/2017 | SW-6020 | Dissolved | Selenium | 3.4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181998-1 | UFIW-02S-20170412 | 4/12/2017 | SW-6020 | Dissolved | Uranium | 41 | ug/L | | 2.5 | 5 | J | fd | FD |
| 440-181998-1 | UFIW-02S-20170412-FD | 4/12/2017 | SW-6020 | Dissolved | Uranium | 68 | ug/L | | 2.5 | 5 | J | fd | FD |
| 440-181998-1 | UFIW-02I-20170412 | 4/12/2017 | SW-6020 | Dissolved | Zinc | 13 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-181998-1 | UFMW-02S-20170412 | 4/12/2017 | SW-6020 | Dissolved | Zinc | 84 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-181999-1 | UFIW-04I-20170412 | 4/12/2017 | SW-6020 | Dissolved | Antimony | 2.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181999-1 | UFIW-04I-20170412 | 4/12/2017 | SW-6020 | Dissolved | Manganese | 320 | ug/L | F1 | 2.5 | 5 | J- | m | MS %Recovery |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|------------------------|---------|-------|---------------|-------|-------|---------------------|-------------|----------------------------|
| 440-181999-1 | UFIW-04I-20170412 | 4/12/2017 | SW-6020 | Dissolved | Nickel | 3.1 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-181999-1 | UFIW-04I-20170412 | 4/12/2017 | SW-6020 | Dissolved | Selenium | 2.5 | ug/L | U F1 | 2.5 | 10 | UJ | m | MS %Recovery |
| 440-183557-1 | CTMW-02D-20170503 | 5/3/2017 | EPA 314.0 | Total | Perchlorate | 1100000 | ug/L | | 25000 | 50000 | J | fd | FD |
| 440-183557-1 | CTMW-02D-20170503-FD | 5/3/2017 | EPA 314.0 | Total | Perchlorate | 1800000 | ug/L | | 25000 | 50000 | J | fd | FD |
| 440-183557-1 | CTMW-02D-20170503-FD | 5/3/2017 | EPA 365.3 | Total | Phosphorus | 0.025 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-01D-20170503 | 5/3/2017 | SM4500-S2-D | Total | Sulfide | 0.03 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-01D-20170503 | 5/3/2017 | SW-6020 | Dissolved | Antimony | 0.96 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-02D-20170503 | 5/3/2017 | SW-6020 | Dissolved | Antimony | 1 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-02D-20170503-FD | 5/3/2017 | SW-6020 | Dissolved | Antimony | 0.91 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-01D-20170503 | 5/3/2017 | SW-6020 | Dissolved | Cobalt | 0.77 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-02D-20170503 | 5/3/2017 | SW-6020 | Dissolved | Cobalt | 0.81 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-02D-20170503-FD | 5/3/2017 | SW-6020 | Dissolved | Cobalt | 0.84 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-02D-20170503 | 5/3/2017 | SW-6020 | Dissolved | Copper | 1.8 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-02D-20170503-FD | 5/3/2017 | SW-6020 | Dissolved | Copper | 1.9 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-01D-20170503 | 5/3/2017 | SW-6020 | Dissolved | Zinc | 6.7 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-01S-20170503 | 5/3/2017 | SW-6020 | Dissolved | Zinc | 9.3 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-02D-20170503 | 5/3/2017 | SW-6020 | Dissolved | Zinc | 9.3 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-02D-20170503-FD | 5/3/2017 | SW-6020 | Dissolved | Zinc | 9.8 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-02D-20170503 | 5/3/2017 | SW-8260B | Total | 1,4-Dichlorobenzene | 6.5 | ug/L | J | 6.3 | 13 | J | sp | Detect < PQL |
| 440-183557-1 | CTMW-02D-20170503-FD | 5/3/2017 | VFA-IC | Total | Acetic acid | 0.29 | mg/L | U F1 | 0.29 | 1 | UJ | m | MS %Recovery |
| 440-183557-1 | CTMW-02D-20170503-FD | 5/3/2017 | VFA-IC | Total | Lactic acid | 0.31 | mg/L | U F1 | 0.31 | 1 | UJ | m | MS %Recovery |
| 440-183557-1 | CTMW-02D-20170503-FD | 5/3/2017 | VFA-IC | Total | n-Butyric Acid | 0.26 | mg/L | U F2 F1 | 0.26 | 1 | UJ | m | MS %Recovery |
| 440-183557-1 | CTMW-02D-20170503-FD | 5/3/2017 | VFA-IC | Total | Propionic acid | 0.35 | mg/L | U F1 | 0.35 | 1 | UJ | m | MS %Recovery |
| 440-183688-1 | CTMW-04D-20170504 | 5/4/2017 | EPA 365.3 | Total | Orthophosphate | 0.037 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-183688-1 | CTMW-04D-20170504 | 5/4/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.11 | mg/L | J | 0.06 | 0.15 | J | sp | Detect < PQL |
| 440-183688-1 | CTMW-04D-20170504 | 5/4/2017 | EPA 365.3 | Total | Phosphorus | 0.041 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-183688-1 | CTMW-04D-20170504 | 5/4/2017 | SW-6020 | Dissolved | Cobalt | 0.5 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-183688-1 | CTMW-04D-20170504 | 5/4/2017 | SW-6020 | Dissolved | Copper | 1.5 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-183688-1 | CTMW-04D-20170504 | 5/4/2017 | SW-6020 | Dissolved | Selenium | 3.3 | ug/L | F1 | 0.5 | 2 | J- | m | MS %Recovery |
| 440-183688-1 | CTMW-04D-20170504 | 5/4/2017 | SW-6020 | Dissolved | Zinc | 17 | ug/L | J F1 | 2.5 | 20 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-183688-1 | CTMW-04D-20170504 | 5/4/2017 | SW-8260B | Total | 1,3-Dichlorobenzene | 0.34 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-183688-1 | CTMW-04D-20170504 | 5/4/2017 | SW-8260B | Total | Bromoform | 0.81 | ug/L | J | 0.4 | 1 | J | sp | Detect < PQL |
| 440-183688-1 | CTMW-04D-20170504 | 5/4/2017 | SW-8260B | Total | Carbon tetrachloride | 0.46 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-183688-1 | CTMW-04D-20170504 | 5/4/2017 | SW-8260B | Total | Tetrachloroethene | 0.36 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-183689-1 | CTMW-02S-20170504 | 5/4/2017 | EPA 365.3 | Total | Orthophosphate | 0.15 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-183689-1 | CTMW-04S-20170504 | 5/4/2017 | EPA 365.3 | Total | Orthophosphate | 0.049 | mg/L | J | 0.02 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-183689-1 | CTMW-02S-20170504 | 5/4/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.46 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-183689-1 | CTMW-04S-20170504 | 5/4/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.15 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-183689-1 | CTMW-02S-20170504 | 5/4/2017 | SW-6020 | Dissolved | Antimony | 1.6 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-183689-1 | CTMW-04S-20170504 | 5/4/2017 | SW-6020 | Dissolved | Antimony | 0.89 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-183689-1 | CTMW-04S-20170504 | 5/4/2017 | SW-6020 | Dissolved | Copper | 1.5 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-183689-1 | CTMW-02S-20170504 | 5/4/2017 | SW-6020 | Dissolved | Selenium | 1.6 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-183689-1 | CTMW-02S-20170504 | 5/4/2017 | SW-6020 | Dissolved | Zinc | 18 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-183689-1 | CTMW-04S-20170504 | 5/4/2017 | SW-6020 | Dissolved | Zinc | 5.5 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-183689-1 | CTMW-02S-20170504 | 5/4/2017 | SW-8260B | Total | 1,2,3-Trichlorobenzene | 0.57 | ug/L | J | 0.4 | 1 | J | sp | Detect < PQL |
| 440-183689-1 | CTMW-02S-20170504 | 5/4/2017 | SW-8260B | Total | Benzene | 0.37 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-183689-1 | CTMW-02S-20170504 | 5/4/2017 | SW-8260B | Total | Tetrachloroethene | 0.28 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-183810-1 | CTMW-03D-20170505 | 5/5/2017 | EPA 365.3 | Total | Orthophosphate | 0.044 | mg/L | J | 0.02 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-183810-1 | CTMW-03S-20170505 | 5/5/2017 | EPA 365.3 | Total | Orthophosphate | 0.081 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-183810-1 | CTMW-03D-20170505 | 5/5/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.14 | mg/L | J | 0.06 | 0.15 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-183810-1 | CTMW-03S-20170505 | 5/5/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.25 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-183810-1 | CTMW-03S-20170505 | 5/5/2017 | SW-6020 | Dissolved | Aluminum | 26 | ug/L | J B | 25 | 50 | J | sp | Detect < PQL |
| 440-183810-1 | CTMW-03D-20170505 | 5/5/2017 | SW-6020 | Dissolved | Copper | 4.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-----------|--------------------|--------------------------------------|--------|-------|---------------|-------|------|---------------------|-------------|----------------------------|
| 440-183810-1 | CTMW-03D-20170505 | 5/5/2017 | SW-6020 | Dissolved | Iron | 9.1 | ug/L | J | 8 | 20 | J | sp | Detect < PQL |
| 440-183810-1 | CTMW-03S-20170505 | 5/5/2017 | SW-6020 | Dissolved | Nickel | 3.1 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-183810-1 | CTMW-03D-20170505 | 5/5/2017 | SW-6020 | Dissolved | Selenium | 5.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-183810-1 | CTMW-03S-20170505 | 5/5/2017 | SW-6020 | Dissolved | Selenium | 4.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-183810-1 | CTMW-03D-20170505 | 5/5/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 19 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-183810-1 | CTMW-03S-20170505 | 5/5/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 18 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-184556-1 | CTMW-02S-20170516 | 5/16/2017 | SM5220D | Total | Chemical Oxygen Demand | 37 | mg/L | J | 20 | 40 | J | sp | Detect < PQL |
| 440-184556-1 | CTMW-01D-20170516 | 5/16/2017 | SW-6010B | Total | Manganese | 0.037 | mg/L | J | 0.02 | 0.04 | J | sp | Detect < PQL |
| 440-184556-1 | CTMW-02S-20170516 | 5/16/2017 | SW-6020 | Dissolved | Aluminum | 6.3 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-184556-1 | CTMW-01S-20170516 | 5/16/2017 | SW-6020 | Dissolved | Antimony | 0.53 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-184556-1 | CTMW-01D-20170516 | 5/16/2017 | SW-6020 | Dissolved | Cadmium | 0.25 | ug/L | U F1 | 0.25 | 1 | UJ | m | MS %Recovery |
| 440-184556-1 | CTMW-01D-20170516 | 5/16/2017 | SW-6020 | Dissolved | Cobalt | 0.83 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-184556-1 | CTMW-01D-20170516 | 5/16/2017 | SW-6020 | Dissolved | Copper | 2.3 | ug/L | F1 | 0.5 | 2 | J- | m | MS %Recovery |
| 440-184556-1 | CTMW-01S-20170516 | 5/16/2017 | SW-6020 | Dissolved | Lead | 0.62 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-184556-1 | CTMW-01D-20170516 | 5/16/2017 | SW-6020 | Dissolved | Manganese | 58 | ug/L | F1 | 0.5 | 1 | J- | m | MS %Recovery |
| 440-184556-1 | CTMW-01D-20170516 | 5/16/2017 | SW-6020 | Dissolved | Nickel | 6.6 | ug/L | F1 | 0.5 | 2 | J- | m | MS %Recovery |
| 440-184556-1 | CTMW-01D-20170516 | 5/16/2017 | SW-6020 | Dissolved | Selenium | 2.4 | ug/L | F1 | 0.5 | 2 | J- | m | MS %Recovery |
| 440-184556-1 | CTMW-01D-20170516 | 5/16/2017 | SW-6020 | Dissolved | Zinc | 9.5 | ug/L | J F1 | 2.5 | 20 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-184556-1 | CTMW-01S-20170516 | 5/16/2017 | SW-6020 | Dissolved | Zinc | 10 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-184556-1 | CTMW-02S-20170516 | 5/16/2017 | SW-6020 | Dissolved | Zinc | 13 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-02D-20170517 | 5/17/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U F1 | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-184659-1 | CTMW-03S-20170517 | 5/17/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-184659-1 | CTMW-04D-20170517 | 5/17/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-184659-1 | CTMW-04D-20170517-FD | 5/17/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-184659-1 | CTMW-04S-20170517 | 5/17/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-184659-1 | CTMW-02D-20170517 | 5/17/2017 | EPA 365.3 | Total | Orthophosphate | 0.064 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | EPA 365.3 | Total | Orthophosphate | 0.033 | mg/L | J F1 | 0.02 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-184659-1 | CTMW-03S-20170517 | 5/17/2017 | EPA 365.3 | Total | Orthophosphate | 0.053 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-184659-1 | CTMW-04D-20170517 | 5/17/2017 | EPA 365.3 | Total | Orthophosphate | 0.044 | mg/L | J | 0.02 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-184659-1 | CTMW-04D-20170517-FD | 5/17/2017 | EPA 365.3 | Total | Orthophosphate | 0.058 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-184659-1 | CTMW-04S-20170517 | 5/17/2017 | EPA 365.3 | Total | Orthophosphate | 0.54 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-184659-1 | CTMW-02D-20170517 | 5/17/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.19 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.1 | mg/L | J F1 | 0.06 | 0.15 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-184659-1 | CTMW-03S-20170517 | 5/17/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.16 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-184659-1 | CTMW-04D-20170517 | 5/17/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.14 | mg/L | J | 0.06 | 0.15 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-184659-1 | CTMW-04D-20170517-FD | 5/17/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.18 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-184659-1 | CTMW-04S-20170517 | 5/17/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 1.6 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-184659-1 | CTMW-02D-20170517 | 5/17/2017 | EPA 365.3 | Total | Phosphorus | 0.03 | mg/L | J | 0.025 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | EPA 365.3 | Total | Phosphorus | 0.025 | mg/L | U F1 | 0.025 | 0.05 | R | m | MS %Recovery |
| 440-184659-1 | CTMW-03S-20170517 | 5/17/2017 | EPA 365.3 | Total | Phosphorus | 0.025 | mg/L | U | 0.025 | 0.05 | R | m | MS %Recovery |
| 440-184659-1 | CTMW-04D-20170517 | 5/17/2017 | EPA 365.3 | Total | Phosphorus | 0.025 | mg/L | U | 0.025 | 0.05 | R | m | MS %Recovery |
| 440-184659-1 | CTMW-04D-20170517-FD | 5/17/2017 | EPA 365.3 | Total | Phosphorus | 0.025 | mg/L | U | 0.025 | 0.05 | R | m | MS %Recovery |
| 440-184659-1 | CTMW-04S-20170517 | 5/17/2017 | EPA 365.3 | Total | Phosphorus | 0.32 | mg/L | | 0.025 | 0.05 | J- | m | MS %Recovery |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | SM5220D | Total | Chemical Oxygen Demand | 20 | mg/L | U F1 | 20 | 40 | R | m | MS %Recovery |
| 440-184659-1 | CTMW-03S-20170517 | 5/17/2017 | SW-6020 | Dissolved | Aluminum | 30 | ug/L | J | 25 | 50 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | SW-6020 | Dissolved | Copper | 3.1 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-02D-20170517 | 5/17/2017 | SW-6020 | Dissolved | Iron | 82 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | SW-6020 | Dissolved | Iron | 42 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-04D-20170517 | 5/17/2017 | SW-6020 | Dissolved | Iron | 71 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-04D-20170517-FD | 5/17/2017 | SW-6020 | Dissolved | Iron | 65 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-02D-20170517 | 5/17/2017 | SW-6020 | Dissolved | Nickel | 5.6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | SW-6020 | Dissolved | Nickel | 3.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-----------|--------------------|--------------------------------------|--------|-------|---------------|-------|------|---------------------|-------------|----------------------------|
| 440-184659-1 | CTMW-03S-20170517 | 5/17/2017 | SW-6020 | Dissolved | Nickel | 3.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-04D-20170517 | 5/17/2017 | SW-6020 | Dissolved | Nickel | 3.5 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-04D-20170517-FD | 5/17/2017 | SW-6020 | Dissolved | Nickel | 3.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-02D-20170517 | 5/17/2017 | SW-6020 | Dissolved | Selenium | 4.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | SW-6020 | Dissolved | Selenium | 5.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-03S-20170517 | 5/17/2017 | SW-6020 | Dissolved | Selenium | 3.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-04D-20170517-FD | 5/17/2017 | SW-6020 | Dissolved | Selenium | 4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-02D-20170517 | 5/17/2017 | SW-6020 | Dissolved | Zinc | 14 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | SW-6020 | Dissolved | Zinc | 44 | ug/L | J F1 | 13 | 100 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-184659-1 | CTMW-03S-20170517 | 5/17/2017 | SW-6020 | Dissolved | Zinc | 22 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-04S-20170517 | 5/17/2017 | SW-6020 | Dissolved | Zinc | 7.1 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-02D-20170517 | 5/17/2017 | SW-8260B | Total | 1,4-Dichlorobenzene | 6.7 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-02D-20170517 | 5/17/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 29 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-02D-20170517-TB | 5/17/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 1.8 | ug/L | J | 0.88 | 2 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 26 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-03S-20170517 | 5/17/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 17 | ug/L | J | 8.8 | 20 | J | sp | Detect < PQL |
| 440-184659-1 | CTMW-03D-20170517 | 5/17/2017 | VFA-IC | Total | Lactic acid | 16 | mg/L | U F1 | 16 | 50 | UJ | m | MS %Recovery |
| 440-185475-1 | CTMW-01D-20170531 | 5/31/2017 | EPA 365.3 | Total | Orthophosphate | 0.051 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-185475-1 | CTMW-01S-20170531 | 5/31/2017 | EPA 365.3 | Total | Orthophosphate | 1.2 | mg/L | | 0.04 | 0.1 | J- | m | MS %Recovery |
| 440-185475-1 | CTMW-01D-20170531 | 5/31/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.16 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-185475-1 | CTMW-01S-20170531 | 5/31/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 3.7 | mg/L | | 0.12 | 0.3 | J- | m | MS %Recovery |
| 440-185475-1 | CTMW-01D-20170531 | 5/31/2017 | EPA 365.3 | Total | Phosphorus | 0.035 | mg/L | J | 0.025 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-185475-1 | CTMW-01S-20170531 | 5/31/2017 | EPA 365.3 | Total | Phosphorus | 0.49 | mg/L | | 0.025 | 0.05 | J- | m | MS %Recovery |
| 440-185475-1 | CTMW-01D-20170531 | 5/31/2017 | SW-6010B | Total | Iron | 0.15 | mg/L | J | 0.1 | 0.2 | J | sp | Detect < PQL |
| 440-185475-1 | CTMW-01D-20170531 | 5/31/2017 | SW-6010B | Total | Manganese | 0.027 | mg/L | J | 0.02 | 0.04 | J | sp | Detect < PQL |
| 440-185475-1 | CTMW-01D-20170531 | 5/31/2017 | SW-6020 | Dissolved | Nickel | 6.3 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-185475-1 | CTMW-01S-20170531 | 5/31/2017 | SW-6020 | Dissolved | Nickel | 13 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-185475-1 | CTMW-01S-20170531 | 5/31/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 45 | ug/L | J B | 22 | 50 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-185562-1 | CTMW-02D-20170601 | 6/1/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-185562-1 | CTMW-02D-20170601-FD | 6/1/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-185562-1 | CTMW-02S-20170601 | 6/1/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-185562-1 | CTMW-03D-20170601 | 6/1/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U F1 | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-185562-1 | CTMW-03S-20170601 | 6/1/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-185562-1 | CTMW-02D-20170601 | 6/1/2017 | EPA 365.3 | Total | Orthophosphate | 0.065 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-185562-1 | CTMW-02D-20170601-FD | 6/1/2017 | EPA 365.3 | Total | Orthophosphate | 0.065 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-185562-1 | CTMW-02S-20170601 | 6/1/2017 | EPA 365.3 | Total | Orthophosphate | 0.27 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-185562-1 | CTMW-03D-20170601 | 6/1/2017 | EPA 365.3 | Total | Orthophosphate | 0.031 | mg/L | J F1 | 0.02 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-185562-1 | CTMW-03S-20170601 | 6/1/2017 | EPA 365.3 | Total | Orthophosphate | 0.059 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-185562-1 | CTMW-02D-20170601 | 6/1/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.2 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-185562-1 | CTMW-02D-20170601-FD | 6/1/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.2 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-185562-1 | CTMW-02S-20170601 | 6/1/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.81 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-185562-1 | CTMW-03D-20170601 | 6/1/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.094 | mg/L | J F1 | 0.06 | 0.15 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-185562-1 | CTMW-03S-20170601 | 6/1/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.18 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-185562-1 | CTMW-02D-20170601 | 6/1/2017 | EPA 365.3 | Total | Phosphorus | 0.029 | mg/L | J | 0.025 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-185562-1 | CTMW-02D-20170601-FD | 6/1/2017 | EPA 365.3 | Total | Phosphorus | 0.029 | mg/L | J | 0.025 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-185562-1 | CTMW-02S-20170601 | 6/1/2017 | EPA 365.3 | Total | Phosphorus | 0.26 | mg/L | | 0.025 | 0.05 | J- | m | MS %Recovery |
| 440-185562-1 | CTMW-03D-20170601 | 6/1/2017 | EPA 365.3 | Total | Phosphorus | 0.025 | mg/L | U F1 | 0.025 | 0.05 | UJ | m | MS %Recovery |
| 440-185562-1 | CTMW-03S-20170601 | 6/1/2017 | EPA 365.3 | Total | Phosphorus | 0.028 | mg/L | J | 0.025 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-185562-1 | CTMW-03D-20170601 | 6/1/2017 | SM5220D | Total | Chemical Oxygen Demand | 50 | mg/L | U F1 | 50 | 100 | UJ | m | MS %Recovery |
| 440-185562-1 | CTMW-02D-20170601-FD | 6/1/2017 | SW-6010B | Total | Iron | 0.051 | mg/L | J | 0.05 | 0.1 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-03D-20170601 | 6/1/2017 | SW-6010B | Total | Manganese | 0.019 | mg/L | J | 0.01 | 0.02 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-02S-20170601 | 6/1/2017 | SW-6020 | Dissolved | Aluminum | 8.7 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-03D-20170601 | 6/1/2017 | SW-6020 | Dissolved | Arsenic | 120 | ug/L | F1 | 5 | 10 | J+ | m | MS %Recovery |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|---------------------------|-------------|-------------------|--------------------|--------------------------------------|--------|-------|---------------|-------|------|---------------------|-------------|----------------------------|
| 440-185562-1 | CTMW-02D-20170601 | 6/1/2017 | SW-6020 | Dissolved | Nickel | 6.5 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-02D-20170601-FD | 6/1/2017 | SW-6020 | Dissolved | Nickel | 5.5 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-03D-20170601 | 6/1/2017 | SW-6020 | Dissolved | Nickel | 5.7 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-03D-20170601 | 6/1/2017 | SW-6020 | Dissolved | Vanadium | 10 | ug/L | U F1 L | 10 | 20 | R | m | MS %Recovery |
| 440-185562-1 | CTMW-02S-20170601 | 6/1/2017 | SW-6020 | Dissolved | Zinc | 5.1 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-02D-20170601 | 6/1/2017 | SW-8260B | Total | 1,2-Dichlorobenzene | 19 | ug/L | J | 10 | 20 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-02D-20170601-FD | 6/1/2017 | SW-8260B | Total | 1,4-Dichlorobenzene | 7.2 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-02S-20170601 | 6/1/2017 | SW-8260B | Total | Acetone | 47 | ug/L | J | 25 | 50 | J | sp | Detect < PQL |
| 440-185562-1 | TRIPBLANK1706010830 | 6/1/2017 | SW-8260B | Total | Chloroform | 0.29 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-02D-20170601 | 6/1/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 38 | ug/L | J | 35 | 80 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-02D-20170601-FD | 6/1/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 22 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-02S-20170601 | 6/1/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 4.3 | ug/L | J B | 2.2 | 5 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-185562-1 | CTMW-03D-20170601 | 6/1/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 11 | ug/L | J | 8.8 | 20 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-03S-20170601 | 6/1/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 18 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-185562-1 | CTMW-03D-20170601 | 6/1/2017 | SW-8260B | Total | Trichloroethene | 2.5 | ug/L | J | 2.5 | 5 | J | sp | Detect < PQL |
| 440-185643-1 | CTMW-04D-20170602 | 6/2/2017 | SW-6010B | Total | Iron | 0.084 | mg/L | J | 0.05 | 0.1 | J | sp | Detect < PQL |
| 440-185643-1 | CTMW-04D-20170602 | 6/2/2017 | SW-6020 | Dissolved | Nickel | 5.8 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-185643-1 | CTMW-04D-20170602 | 6/2/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 24 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-185644-1 | CTMW-04S-20170602 | 6/2/2017 | EPA 365.3 | Total | Orthophosphate | 0.067 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-185644-1 | CTMW-04S-20170602 | 6/2/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.21 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-185644-1 | CTMW-04S-20170602 | 6/2/2017 | EPA 365.3 | Total | Phosphorus | 0.41 | mg/L | F1 | 0.025 | 0.05 | J- | m | MS %Recovery |
| 440-185644-1 | CTMW-04S-20170602 | 6/2/2017 | SW-6020 | Dissolved | Zinc | 11 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-185644-1 | CTMW-04S-20170602 | 6/2/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 9.7 | ug/L | J | 8.8 | 20 | J | sp | Detect < PQL |
| 440-185751-1 | CTMW-05D-45.0-20170605 | 6/5/2017 | EPA 300.0-soluble | Total | Nitrate | 4 | mg/L | | 0.25 | 0.5 | J- | h | Holding Time |
| 440-185751-1 | CTMW-05D-0.5-20170605 | 6/5/2017 | EPA 314.0 | N/A | Perchlorate | 1.6 | mg/kg | F1 | 0.05 | 0.21 | J+ | m | MS %Recovery |
| 440-185751-1 | CTMW-05D-15.0-20170605 | 6/5/2017 | EPA 314.0 | N/A | Perchlorate | 940 | mg/kg | | 10 | 42 | J | fd | FD |
| 440-185751-1 | CTMW-05D-15.0-20170605-FD | 6/5/2017 | EPA 314.0 | N/A | Perchlorate | 310 | mg/kg | | 11 | 46 | J | fd | FD |
| 440-185751-1 | CTMW-05D-45.0-20170605 | 6/5/2017 | SW-6020 | N/A | Antimony | 0.54 | mg/kg | J F1 | 0.46 | 1.7 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-185751-1 | CTMW-05D-45.0-20170605 | 6/5/2017 | SW-6020 | N/A | Selenium | 1.1 | mg/kg | J | 0.34 | 1.7 | J | sp | Detect < PQL |
| 440-185751-1 | CTMW-05D-0.5-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 0.92 | mg/kg | | 0.16 | 0.31 | J- | h | Holding Time |
| 440-185751-1 | CTMW-05D-10.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 0.18 | mg/kg | U | 0.18 | 0.35 | UJ | h | Holding Time |
| 440-185751-1 | CTMW-05D-15.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 0.16 | mg/kg | U | 0.16 | 0.32 | UJ | h | Holding Time |
| 440-185751-1 | CTMW-05D-15.0-20170605-FD | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 0.17 | mg/kg | U | 0.17 | 0.34 | UJ | h | Holding Time |
| 440-185751-1 | CTMW-05D-25.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 2.3 | mg/kg | | 0.24 | 0.47 | J- | h | Holding Time |
| 440-185751-1 | CTMW-05D-30.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 4.5 | mg/kg | | 0.25 | 0.5 | J- | h | Holding Time |
| 440-185751-1 | CTMW-05D-35.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 2.7 | mg/kg | | 0.26 | 0.52 | J- | h | Holding Time |
| 440-185751-1 | CTMW-05D-40.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 4.8 | mg/kg | | 0.22 | 0.44 | J- | h | Holding Time |
| 440-185751-1 | CTMW-05D-45.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 10 | mg/kg | | 0.25 | 0.51 | J- | h | Holding Time |
| 440-185751-1 | CTMW-05D-5.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 0.23 | mg/kg | J | 0.17 | 0.33 | J | h,sp | Holding Time, Detect < PQL |
| 440-185751-1 | CTMW-05D-50.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 7.6 | mg/kg | | 0.23 | 0.46 | J- | h | Holding Time |
| 440-185844-1 | CTMW-05D-55.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 5.5 | mg/kg | | 0.2 | 0.41 | J- | h | Holding Time |
| 440-185844-1 | CTMW-05D-60.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 1.6 | mg/kg | | 0.24 | 0.48 | J- | h | Holding Time |
| 440-185847-1 | CTMW-05D-20.0-20170605 | 6/5/2017 | EPA 300.0-soluble | Total | Nitrate | 44 | mg/L | | 2.5 | 5 | J- | h | Holding Time |
| 440-185847-1 | CTMW-05D-20.0-20170605 | 6/5/2017 | SW-6020 | N/A | Selenium | 1 | mg/kg | J | 0.26 | 1.3 | J | sp | Detect < PQL |
| 440-185847-1 | CTMW-05D-20.0-20170605 | 6/5/2017 | SW-6020 | N/A | Silver | 0.19 | mg/kg | J | 0.13 | 0.66 | J | sp | Detect < PQL |
| 440-185847-1 | CTMW-05D-20.0-20170605 | 6/5/2017 | SW-7199 | N/A | Chromium [VI] | 8 | mg/kg | | 0.2 | 0.4 | J- | h | Holding Time |
| 440-185869-1 | CTMW-06D-0.5-20170606 | 6/6/2017 | EPA 300.1B | N/A | Chlorate | 2800 | ug/kg | F1 | 270 | 1100 | J- | m | MS %Recovery |
| 440-185869-1 | CTMW-06D-20.0-20170606 | 6/6/2017 | SW-6020 | N/A | Beryllium | 0.21 | mg/kg | J | 0.18 | 0.35 | J | sp | Detect < PQL |
| 440-185869-1 | CTMW-06D-43.5-20170606 | 6/6/2017 | SW-6020 | N/A | Molybdenum | 1.3 | mg/kg | J | 0.81 | 1.6 | J | sp | Detect < PQL |
| 440-185869-1 | CTMW-06D-20.0-20170606 | 6/6/2017 | SW-6020 | N/A | Selenium | 0.5 | mg/kg | J | 0.24 | 1.2 | J | sp | Detect < PQL |
| 440-185869-1 | CTMW-06D-43.5-20170606 | 6/6/2017 | SW-6020 | N/A | Selenium | 1.4 | mg/kg | J | 0.32 | 1.6 | J | sp | Detect < PQL |
| 440-185869-1 | CTMW-06D-20.0-20170606 | 6/6/2017 | SW-6020 | N/A | Zinc | 9 | mg/kg | J | 5.9 | 12 | J | sp | Detect < PQL |
| 440-185869-1 | CTMW-06D-25.0-20170606 | 6/6/2017 | SW-7199 | N/A | Chromium [VI] | 0.32 | mg/kg | U F1 | 0.32 | 0.63 | UJ | m | MS %Recovery |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|------------------------|-------------|-------------|--------------------|--------------------------------------|---------|-------|---------------|---------|---------|---------------------|-------------|----------------------------|
| 440-185869-1 | CTMW-06D-30.0-20170606 | 6/6/2017 | SW-7199 | N/A | Chromium [VI] | 1.7 | mg/kg | | 0.26 | 0.53 | J- | h | Holding Time |
| 440-185869-1 | CTMW-06D-35.0-20170606 | 6/6/2017 | SW-7199 | N/A | Chromium [VI] | 2.9 | mg/kg | | 0.22 | 0.45 | J- | h | Holding Time |
| 440-185869-1 | CTMW-06D-40.0-20170606 | 6/6/2017 | SW-7199 | N/A | Chromium [VI] | 5.4 | mg/kg | | 0.24 | 0.47 | J- | h | Holding Time |
| 440-185869-1 | CTMW-06D-43.5-20170606 | 6/6/2017 | SW-7199 | N/A | Chromium [VI] | 2.8 | mg/kg | | 0.25 | 0.49 | J- | h | Holding Time |
| 440-185869-1 | CTMW-06D-45.0-20170606 | 6/6/2017 | SW-7199 | N/A | Chromium [VI] | 9.8 | mg/kg | | 0.25 | 0.5 | J- | h | Holding Time |
| 440-185869-1 | CTMW-06D-50.0-20170606 | 6/6/2017 | SW-7199 | N/A | Chromium [VI] | 9 | mg/kg | | 0.22 | 0.44 | J- | h | Holding Time |
| 440-185869-1 | CTMW-06D-55.0-20170606 | 6/6/2017 | SW-7199 | N/A | Chromium [VI] | 3.7 | mg/kg | | 0.24 | 0.47 | J- | h | Holding Time |
| 440-185875-1 | CTMW-06D-60.0-20170606 | 6/6/2017 | SW-7199 | N/A | Chromium [VI] | 12 | mg/kg | | 0.22 | 0.44 | J- | h | Holding Time |
| 440-186792-1 | UFMW-01I-20170619 | 6/19/2017 | SW-7199 | Total | Chromium [VI] | 0.53 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-186795-1 | UFMW-02S-20170619 | 6/19/2017 | SW-6010B | Total | Chromium | 0.0043 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-01D-20170619 | 6/19/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U F1 | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-01S-20170619 | 6/19/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 190 | mg/L | | 2 | 4 | J- | m | MS %Recovery |
| 440-186829-1 | CTMW-02D-20170619 | 6/19/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-01D-20170619 | 6/19/2017 | EPA 365.3 | Total | Orthophosphate | 0.085 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-186829-1 | CTMW-01S-20170619 | 6/19/2017 | EPA 365.3 | Total | Orthophosphate | 18 | mg/L | | 1 | 2.5 | J- | m | MS %Recovery |
| 440-186829-1 | CTMW-02D-20170619 | 6/19/2017 | EPA 365.3 | Total | Orthophosphate | 0.033 | mg/L | J | 0.02 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | EPA 365.3 | Total | Orthophosphate | 0.035 | mg/L | J | 0.02 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-186829-1 | CTMW-01D-20170619 | 6/19/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.26 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-186829-1 | CTMW-01S-20170619 | 6/19/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 54 | mg/L | | 3 | 7.5 | J- | m | MS %Recovery |
| 440-186829-1 | CTMW-02D-20170619 | 6/19/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.1 | mg/L | J | 0.06 | 0.15 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.11 | mg/L | J | 0.06 | 0.15 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-186829-1 | CTMW-01D-20170619 | 6/19/2017 | EPA 365.3 | Total | Phosphorus | 0.028 | mg/L | J F1 | 0.025 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-186829-1 | CTMW-01S-20170619 | 6/19/2017 | EPA 365.3 | Total | Phosphorus | 24 | mg/L | | 1.3 | 2.5 | J- | m | MS %Recovery |
| 440-186829-1 | CTMW-02D-20170619 | 6/19/2017 | EPA 365.3 | Total | Phosphorus | 0.025 | mg/L | U | 0.025 | 0.05 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | EPA 365.3 | Total | Phosphorus | 0.025 | mg/L | U | 0.025 | 0.05 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-02D-20170619 | 6/19/2017 | RSK175 | Total | Methane | 0.00041 | mg/L | J | 0.00025 | 0.00099 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | RSK175 | Total | Methane | 0.00054 | mg/L | J | 0.00025 | 0.00099 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-01D-20170619 | 6/19/2017 | SM4500-S2-D | Total | Sulfide | 0.27 | mg/L | U F1 | 0.27 | 0.5 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-01S-20170619 | 6/19/2017 | SM4500-S2-D | Total | Sulfide | 0.36 | mg/L | | 0.027 | 0.05 | J- | m | MS %Recovery |
| 440-186829-1 | CTMW-02D-20170619 | 6/19/2017 | SM4500-S2-D | Total | Sulfide | 0.27 | mg/L | U | 0.27 | 0.5 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | SM4500-S2-D | Total | Sulfide | 0.27 | mg/L | U | 0.27 | 0.5 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-01D-20170619 | 6/19/2017 | SM5220D | Total | Chemical Oxygen Demand | 50 | mg/L | U F1 | 50 | 100 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-02D-20170619 | 6/19/2017 | SM5220D | Total | Chemical Oxygen Demand | 50 | mg/L | U | 50 | 100 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | SM5220D | Total | Chemical Oxygen Demand | 50 | mg/L | U | 50 | 100 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-01S-20170619 | 6/19/2017 | SW-6020 | Dissolved | Cobalt | 5.2 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-01S-20170619 | 6/19/2017 | SW-6020 | Dissolved | Copper | 13 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | SW-6020 | Dissolved | Copper | 6.6 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | SW-6020 | Dissolved | Nickel | 5.4 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | SW-6020 | Dissolved | Selenium | 5.4 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-01D-20170619 | 6/19/2017 | SW-6020 | Dissolved | Vanadium | 10 | ug/L | U F1 L | 10 | 20 | R | m | MS %Recovery |
| 440-186829-1 | CTMW-01D-20170619 | 6/19/2017 | SW-7199 | Dissolved | Chromium [VI] | 20000 | ug/L | H | 250 | 2000 | J- | h | Holding Time |
| 440-186829-1 | CTMW-01S-20170619 | 6/19/2017 | SW-7199 | Dissolved | Chromium [VI] | 0.25 | ug/L | U H | 0.25 | 2 | UJ | h | Holding Time |
| 440-186829-1 | CTMW-02D-20170619 | 6/19/2017 | SW-8260B | Total | 1,2-Dichlorobenzene | 16 | ug/L | J | 10 | 20 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | SW-8260B | Total | 1,4-Dichlorobenzene | 7.9 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-01S-20170619 | 6/19/2017 | SW-8260B | Total | Acetone | 300 | ug/L | J | 250 | 500 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-01S-20170619 | 6/19/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 27 | ug/L | J | 22 | 50 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | SW-8260B | Total | Methyl ethyl ketone [2-Butanone] | 82 | ug/L | J | 50 | 100 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619 | 6/19/2017 | VFA-IC | Total | Acetic acid | 49 | mg/L | J | 15 | 50 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619 | 6/19/2017 | VFA-IC | Total | n-Butyric Acid | 40 | mg/L | J | 13 | 50 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | VFA-IC | Total | n-Butyric Acid | 42 | mg/L | J | 13 | 50 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619 | 6/19/2017 | VFA-IC | Total | Propionic acid | 27 | mg/L | J | 18 | 50 | J | sp | Detect < PQL |
| 440-186829-1 | CTMW-02D-20170619-FD | 6/19/2017 | VFA-IC | Total | Propionic acid | 31 | mg/L | J | 18 | 50 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|--------------------------------------|--------|-------|---------------|--------|-------|---------------------|-------------|-------------------------|
| 440-186901-1 | CTMW-04S-20170620 | 6/20/2017 | SW-6020 | Dissolved | Cobalt | 5.1 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-186901-1 | CTMW-04S-20170620 | 6/20/2017 | SW-6020 | Dissolved | Iron | 140 | ug/L | J B | 80 | 200 | J | sp | Detect < PQL |
| 440-186901-1 | CTMW-04S-20170620 | 6/20/2017 | SW-6020 | Dissolved | Vanadium | 16 | ug/L | J | 10 | 20 | J | sp | Detect < PQL |
| 440-186901-1 | CTMW-04S-20170620 | 6/20/2017 | SW-6020 | Dissolved | Zinc | 26 | ug/L | J B | 25 | 200 | J | sp | Detect < PQL |
| 440-186901-1 | CTMW-04S-20170620 | 6/20/2017 | SW-8260B | Total | 2-Hexanone | 3.3 | ug/L | J | 2.5 | 5 | J | sp | Detect < PQL |
| 440-186901-1 | CTMW-04S-20170620 | 6/20/2017 | SW-8260B | Total | Benzene | 0.46 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-186901-1 | CTMW-04S-20170620 | 6/20/2017 | SW-8260B | Total | Hexachlorobutadiene | 0.36 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-186901-1 | CTMW-04S-20170620 | 6/20/2017 | VFA-IC | Total | n-Butyric Acid | 30 | mg/L | J | 13 | 50 | J | sp | Detect < PQL |
| 440-186906-1 | CTMW-03D-20170620 | 6/20/2017 | EPA 365.3 | Total | Orthophosphate | 0.022 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-186906-1 | CTMW-03D-20170620 | 6/20/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.068 | mg/L | J | 0.06 | 0.15 | J | sp | Detect < PQL |
| 440-186906-1 | CTMW-03S-20170620 | 6/20/2017 | SW-6020 | Dissolved | Aluminum | 63 | ug/L | J | 50 | 100 | J | sp | Detect < PQL |
| 440-186906-1 | CTMW-02S-20170620 | 6/20/2017 | SW-6020 | Dissolved | Nickel | 19 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-186906-1 | CTMW-03S-20170620 | 6/20/2017 | SW-6020 | Dissolved | Nickel | 10 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-186906-1 | CTMW-02S-20170620 | 6/20/2017 | SW-6020 | Dissolved | Vanadium | 11 | ug/L | J | 10 | 20 | J | sp | Detect < PQL |
| 440-186906-1 | CTMW-02S-20170620 | 6/20/2017 | SW-8260B | Total | Benzene | 1 | ug/L | J | 0.63 | 1.3 | J | sp | Detect < PQL |
| 440-186906-1 | CTMW-03D-20170620 | 6/20/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 29 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-186906-1 | CTMW-03S-20170620 | 6/20/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 16 | ug/L | J | 8.8 | 20 | J | sp | Detect < PQL |
| 440-186917-1 | UFMW-02D-20170620 | 6/20/2017 | SW-7199 | Dissolved | Chromium [VI] | 15 | ug/L | | 0.25 | 2 | J- | m | MS %Recovery |
| 440-187017-1 | CTMW-04D-20170621 | 6/21/2017 | EPA 365.3 | Total | Orthophosphate | 0.044 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-04D-20170621 | 6/21/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.14 | mg/L | J | 0.06 | 0.15 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-05S-20170621 | 6/21/2017 | EPA 365.3 | Total | Phosphorus | 0.033 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-05S-20170621 | 6/21/2017 | SW-6010B | Total | Iron | 0.088 | mg/L | J | 0.05 | 0.1 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-05D-20170621-FD | 6/21/2017 | SW-6010B | Total | Manganese | 0.015 | mg/L | J | 0.015 | 0.02 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-06S-20170621 | 6/21/2017 | SW-6020 | Dissolved | Aluminum | 56 | ug/L | J B | 50 | 100 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-06S-20170621 | 6/21/2017 | SW-6020 | Dissolved | Iron | 110 | ug/L | J | 80 | 200 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-06S-20170621 | 6/21/2017 | SW-6020 | Dissolved | Nickel | 15 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-05D-20170621-FD | 6/21/2017 | SW-6020 | Dissolved | Selenium | 18 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-06S-20170621 | 6/21/2017 | SW-6020 | Dissolved | Selenium | 8.3 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-04D-20170621 | 6/21/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 34 | ug/L | J | 22 | 50 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-05D-20170621 | 6/21/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 30 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-05D-20170621-FD | 6/21/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 35 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-05S-20170621 | 6/21/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 14 | ug/L | J | 8.8 | 20 | J | sp | Detect < PQL |
| 440-187017-1 | CTMW-06S-20170621 | 6/21/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 18 | ug/L | J | 8.8 | 20 | J | sp | Detect < PQL |
| 440-187020-1 | UFMW-05D-20170621 | 6/21/2017 | EPA 300.0 | Total | Nitrate | 33 | mg/L | | 0.55 | 1.1 | J | m,ld | MS %Recovery, Lab RPD |
| 440-187020-1 | UFMW-04D-20170621 | 6/21/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-187020-1 | UFMW-05D-20170621 | 6/21/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U F1 | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-187020-1 | UFMW-05I-20170621 | 6/21/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-187020-1 | UFMW-05S-20170621 | 6/21/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-187020-1 | UFMW-06S-20170621 | 6/21/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-187020-1 | UFMW-05S-20170621 | 6/21/2017 | SW-6010B | Total | Chromium | 0.0049 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-187020-1 | UFMW-04D-20170621 | 6/21/2017 | SW-6010B | Total | Manganese | 0.015 | mg/L | J | 0.015 | 0.02 | J | sp | Detect < PQL |
| 440-187101-1 | CTMW-06D-20170622 | 6/22/2017 | SW-6020 | Dissolved | Copper | 1.9 | ug/L | J | 1 | 4 | J | sp | Detect < PQL |
| 440-187101-1 | CTMW-06D-20170622 | 6/22/2017 | SW-6020 | Dissolved | Iron | 96 | ug/L | J B | 80 | 200 | J | sp | Detect < PQL |
| 440-187101-1 | CTMW-06D-20170622 | 6/22/2017 | SW-6020 | Dissolved | Nickel | 3.6 | ug/L | J | 1 | 4 | J | sp | Detect < PQL |
| 440-187101-1 | CTMW-06D-20170622 | 6/22/2017 | SW-6020 | Dissolved | Selenium | 3.4 | ug/L | J | 1 | 4 | J | sp | Detect < PQL |
| 440-187101-1 | CTMW-06D-20170622 | 6/22/2017 | SW-6020 | Dissolved | Zinc | 7.2 | ug/L | J B | 5 | 40 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-188487-1 | CTMW-06S-20170717 | 7/17/2017 | EPA 300.0 | Total | Nitrate | 1.2 | mg/L | J | 1.1 | 2.2 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-06S-20170717 | 7/17/2017 | EPA 314.0 | Total | Perchlorate | 18000 | ug/L | F1 | 250 | 500 | J- | m | MS %Recovery |
| 440-188487-1 | CTMW-05S-20170717 | 7/17/2017 | EPA 365.3 | Total | Phosphorus | 0.027 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-05S-20170717 | 7/17/2017 | SM4500-S2-D | Total | Sulfide | 0.028 | mg/L | J | 0.027 | 0.05 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-06D-20170717 | 7/17/2017 | SM4500-S2-D | Total | Sulfide | 0.03 | mg/L | J | 0.027 | 0.05 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-06D-20170717-FD | 7/17/2017 | SM4500-S2-D | Total | Sulfide | 0.029 | mg/L | J | 0.027 | 0.05 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-06D-20170717-FD | 7/17/2017 | SW-6010B | Total | Iron | 0.067 | mg/L | J | 0.05 | 0.1 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|--------------------------------------|--------|-------|---------------|-------|------|---------------------|-------------|----------------------------|
| 440-188487-1 | CTMW-06S-20170717 | 7/17/2017 | SW-6020 | Dissolved | Antimony | 4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-06S-20170717 | 7/17/2017 | SW-6020 | Dissolved | Cobalt | 3.1 | ug/L | J | 2.5 | 5 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-06D-20170717-FD | 7/17/2017 | SW-6020 | Dissolved | Copper | 3.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-05S-20170717 | 7/17/2017 | SW-6020 | Dissolved | Nickel | 5.5 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-06D-20170717 | 7/17/2017 | SW-6020 | Dissolved | Nickel | 4.7 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-06D-20170717-FD | 7/17/2017 | SW-6020 | Dissolved | Nickel | 5.4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-06D-20170717 | 7/17/2017 | SW-6020 | Dissolved | Selenium | 2.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188487-1 | CTMW-06D-20170717-FD | 7/17/2017 | SW-6020 | Dissolved | Selenium | 3.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | EPA 300.0 | Total | Nitrate | 64 | mg/L | | 1.1 | 2.2 | J+ | m | MS %Recovery |
| 440-188538-1 | CTMW-03S-20170718 | 7/18/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-188538-1 | CTMW-04D-20170718 | 7/18/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-188538-1 | CTMW-04S-20170718 | 7/18/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U F1 | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-188538-1 | CTMW-03S-20170718 | 7/18/2017 | EPA 365.3 | Total | Orthophosphate | 0.17 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-188538-1 | CTMW-04D-20170718 | 7/18/2017 | EPA 365.3 | Total | Orthophosphate | 0.052 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-188538-1 | CTMW-04S-20170718 | 7/18/2017 | EPA 365.3 | Total | Orthophosphate | 0.51 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | EPA 365.3 | Total | Orthophosphate | 0.053 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-188538-1 | CTMW-03S-20170718 | 7/18/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.51 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-188538-1 | CTMW-04D-20170718 | 7/18/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.16 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-188538-1 | CTMW-04S-20170718 | 7/18/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 1.6 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.16 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-188538-1 | CTMW-03S-20170718 | 7/18/2017 | EPA 365.3 | Total | Phosphorus | 0.046 | mg/L | J | 0.025 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-188538-1 | CTMW-04D-20170718 | 7/18/2017 | EPA 365.3 | Total | Phosphorus | 0.025 | mg/L | U | 0.025 | 0.05 | R | m | MS %Recovery |
| 440-188538-1 | CTMW-04S-20170718 | 7/18/2017 | EPA 365.3 | Total | Phosphorus | 0.38 | mg/L | | 0.025 | 0.05 | J- | m | MS %Recovery |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | EPA 365.3 | Total | Phosphorus | 0.025 | mg/L | U F1 | 0.025 | 0.05 | R | m | MS %Recovery |
| 440-188538-1 | CTMW-03S-20170718 | 7/18/2017 | SM4500-S2-D | Total | Sulfide | 0.077 | mg/L | | 0.027 | 0.05 | J- | m | MS %Recovery |
| 440-188538-1 | CTMW-04D-20170718 | 7/18/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-188538-1 | CTMW-04S-20170718 | 7/18/2017 | SM4500-S2-D | Total | Sulfide | 0.073 | mg/L | | 0.027 | 0.05 | J- | m | MS %Recovery |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U F1 | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-188538-1 | CTMW-03S-20170718 | 7/18/2017 | SM5220D | Total | Chemical Oxygen Demand | 50 | mg/L | U | 50 | 100 | R | m | MS %Recovery |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | SM5220D | Total | Chemical Oxygen Demand | 50 | mg/L | U F1 | 50 | 100 | R | m | MS %Recovery |
| 440-188538-1 | CTMW-03S-20170718 | 7/18/2017 | SW-6010B | Total | Iron | 0.055 | mg/L | J | 0.05 | 0.1 | J | sp | Detect < PQL |
| 440-188538-1 | CTMW-03S-20170718 | 7/18/2017 | SW-6020 | Dissolved | Nickel | 4.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188538-1 | CTMW-04D-20170718 | 7/18/2017 | SW-6020 | Dissolved | Nickel | 4.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | SW-6020 | Dissolved | Nickel | 3.5 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188538-1 | CTMW-04D-20170718 | 7/18/2017 | SW-6020 | Dissolved | Selenium | 3.4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | SW-6020 | Dissolved | Selenium | 6.1 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | SW-6020 | Dissolved | Uranium | 57 | ug/L | F1 | 2.5 | 5 | J+ | m | MS %Recovery |
| 440-188538-1 | CTMW-04S-20170718 | 7/18/2017 | SW-6020 | Dissolved | Vanadium | 6.4 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | SW-6020 | Dissolved | Vanadium | 5 | ug/L | U L F1 | 5 | 10 | R | m | MS %Recovery |
| 440-188538-1 | CTMW-04S-20170718 | 7/18/2017 | SW-7199 | Dissolved | Chromium [VI] | 0.34 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | SW-7199 | Dissolved | Chromium [VI] | 15000 | ug/L | H | 250 | 2000 | J- | h | Holding Time |
| 440-188538-1 | CTMW-04S-20170718 | 7/18/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 15 | ug/L | J | 8.8 | 20 | J | sp | Detect < PQL |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | VFA-IC | Total | Acetic acid | 1.5 | mg/L | U F1 F2 | 1.5 | 5 | UJ | m | MS %Recovery |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | VFA-IC | Total | Formic-acid | 1.3 | mg/L | U F1 F2 | 1.3 | 5 | UJ | m | MS %Recovery |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | VFA-IC | Total | Lactic acid | 1.6 | mg/L | U F1 | 1.6 | 5 | UJ | m | MS %Recovery |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | VFA-IC | Total | Propionic acid | 1.8 | mg/L | U F1 F2 | 1.8 | 5 | UJ | m | MS %Recovery |
| 440-188538-1 | CTMW-05D-20170718 | 7/18/2017 | VFA-IC | Total | Pyruvic Acid | 19 | mg/L | U F1 | 19 | 75 | UJ | m | MS %Recovery |
| 440-188655-1 | CTMW-02S-20170719 | 7/19/2017 | EPA 300.0 | Total | Nitrate | 0.63 | mg/L | J | 0.55 | 1.1 | J | sp | Detect < PQL |
| 440-188655-1 | CTMW-02D-20170719 | 7/19/2017 | EPA 365.3 | Total | Orthophosphate | 0.12 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-188655-1 | CTMW-02S-20170719 | 7/19/2017 | EPA 365.3 | Total | Orthophosphate | 0.56 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-188655-1 | CTMW-03D-20170719 | 7/19/2017 | EPA 365.3 | Total | Orthophosphate | 0.064 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-188655-1 | CTMW-02D-20170719 | 7/19/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.35 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|--------------------------------------|---------|-------|---------------|---------|---------|---------------------|-------------|----------------------------|
| 440-188655-1 | CTMW-02S-20170719 | 7/19/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 1.7 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-188655-1 | CTMW-03D-20170719 | 7/19/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.2 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-188655-1 | CTMW-02D-20170719 | 7/19/2017 | EPA 365.3 | Total | Phosphorus | 0.027 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-188655-1 | CTMW-02D-20170719 | 7/19/2017 | RSK175 | Total | Methane | 0.00038 | mg/L | J | 0.00025 | 0.00099 | J | sp | Detect < PQL |
| 440-188655-1 | CTMW-03D-20170719 | 7/19/2017 | SW-6010B | Total | Manganese | 0.018 | mg/L | J | 0.015 | 0.02 | J | sp | Detect < PQL |
| 440-188655-1 | CTMW-02S-20170719 | 7/19/2017 | SW-6020 | Dissolved | Antimony | 5 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-188655-1 | CTMW-02D-20170719 | 7/19/2017 | SW-6020 | Dissolved | Iron | 80 | ug/L | U F1 F2 | 80 | 200 | UJ | m | MS %Recovery |
| 440-188655-1 | CTMW-02D-20170719 | 7/19/2017 | SW-6020 | Dissolved | Nickel | 5.4 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-188655-1 | CTMW-02S-20170719 | 7/19/2017 | SW-6020 | Dissolved | Nickel | 9 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-188655-1 | CTMW-03D-20170719 | 7/19/2017 | SW-6020 | Dissolved | Selenium | 5.7 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-188655-1 | CTMW-02D-20170719 | 7/19/2017 | SW-6020 | Dissolved | Vanadium | 10 | ug/L | U F1 L | 10 | 20 | R | m | MS %Recovery |
| 440-188655-1 | CTMW-02D-20170719 | 7/19/2017 | SW-8260B | Total | 1,2-Dichlorobenzene | 12 | ug/L | J | 6.3 | 13 | J | sp | Detect < PQL |
| 440-188655-1 | CTMW-02S-20170719 | 7/19/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 41 | ug/L | J | 22 | 50 | J | sp | Detect < PQL |
| 440-188655-1 | CTMW-02S-20170719 | 7/19/2017 | SW-8260B | Total | Naphthalene | 12 | ug/L | J | 10 | 25 | J | sp | Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720 | 7/20/2017 | EPA 365.3 | Total | Orthophosphate | 0.08 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-188722-1 | CTMW-01D-20170720-FD | 7/20/2017 | EPA 365.3 | Total | Orthophosphate | 0.1 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-188722-1 | CTMW-01D-20170720 | 7/20/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.24 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-188722-1 | CTMW-01D-20170720-FD | 7/20/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.31 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-188722-1 | CTMW-01D-20170720 | 7/20/2017 | EPA 365.3 | Total | Phosphorus | 0.029 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720-FD | 7/20/2017 | EPA 365.3 | Total | Phosphorus | 0.03 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720 | 7/20/2017 | RSK175 | Total | Methane | 0.0004 | mg/L | J | 0.00025 | 0.00099 | J | sp | Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720 | 7/20/2017 | SW-6020 | Dissolved | Copper | 3.5 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720-FD | 7/20/2017 | SW-6020 | Dissolved | Copper | 3.2 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720 | 7/20/2017 | SW-6020 | Dissolved | Nickel | 8 | ug/L | J B | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720-FD | 7/20/2017 | SW-6020 | Dissolved | Nickel | 7.6 | ug/L | J B | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720 | 7/20/2017 | SW-6020 | Dissolved | Selenium | 7.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720-FD | 7/20/2017 | SW-6020 | Dissolved | Selenium | 6.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720 | 7/20/2017 | SW-6020 | Dissolved | Vanadium | 5 | ug/L | U L F1 | 5 | 10 | R | m | MS %Recovery |
| 440-188722-1 | CTMW-01D-20170720 | 7/20/2017 | SW-6020 | Dissolved | Zinc | 32 | ug/L | J B F1 | 13 | 100 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720-FD | 7/20/2017 | VFA-IC | Total | Lactic acid | 18 | mg/L | J | 6.2 | 20 | J | sp | Detect < PQL |
| 440-188722-1 | CTMW-01D-20170720 | 7/20/2017 | VFA-IC | Total | Pyruvic Acid | 7.4 | mg/L | U F1 | 7.4 | 30 | UJ | m | MS %Recovery |
| 440-188726-1 | CTMW-01S-20170720 | 7/20/2017 | SW-6020 | Dissolved | Aluminum | 48 | ug/L | J B | 25 | 50 | J | sp | Detect < PQL |
| 440-188726-1 | CTMW-01S-20170720 | 7/20/2017 | SW-6020 | Dissolved | Cobalt | 3.7 | ug/L | J | 2.5 | 5 | J | sp | Detect < PQL |
| 440-188726-1 | CTMW-01S-20170720 | 7/20/2017 | SW-6020 | Dissolved | Copper | 4.2 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-188726-1 | CTMW-01S-20170720 | 7/20/2017 | SW-6020 | Dissolved | Zinc | 17 | ug/L | J B | 13 | 100 | J | sp | Detect < PQL |
| 440-190307-1 | UFMW-06D-20170815 | 8/15/2017 | EPA 300.0 | Total | Nitrate | 49 | mg/L | H | 2.8 | 5.5 | J- | h | Holding Time |
| 440-190307-1 | UFMW-06I-20170815 | 8/15/2017 | EPA 300.0 | Total | Nitrate | 79 | mg/L | H | 2.8 | 5.5 | J- | h | Holding Time |
| 440-190307-1 | UFMW-06I-20170815-FD | 8/15/2017 | EPA 300.0 | Total | Nitrate | 77 | mg/L | H | 5.5 | 11 | J- | h | Holding Time |
| 440-190307-1 | UFMW-05D-20170815 | 8/15/2017 | EPA 314.0 | Total | Perchlorate | 1400 | mg/L | | 25 | 50 | J- | m | MS %Recovery |
| 440-190307-1 | UFMW-06D-20170815 | 8/15/2017 | EPA 314.0 | Total | Perchlorate | 1300 | mg/L | F1 | 25 | 50 | J- | m | MS %Recovery |
| 440-190307-1 | UFMW-06I-20170815 | 8/15/2017 | EPA 314.0 | Total | Perchlorate | 610 | mg/L | | 5 | 10 | J- | m | MS %Recovery |
| 440-190307-1 | UFMW-06I-20170815-FD | 8/15/2017 | EPA 314.0 | Total | Perchlorate | 640 | mg/L | | 5 | 10 | J- | m | MS %Recovery |
| 440-190307-1 | UFMW-06S-20170815 | 8/15/2017 | EPA 314.0 | Total | Perchlorate | 490 | mg/L | | 5 | 10 | J- | m | MS %Recovery |
| 440-190307-1 | UFMW-05D-20170815 | 8/15/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-190307-1 | UFMW-06D-20170815 | 8/15/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U F1 | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-190307-1 | UFMW-06I-20170815 | 8/15/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-190307-1 | UFMW-06I-20170815-FD | 8/15/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-190307-1 | UFMW-06S-20170815 | 8/15/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-190307-1 | UFMW-06D-20170815 | 8/15/2017 | SW-7199 | Dissolved | Chromium [VI] | 26 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-190307-1 | UFMW-06I-20170815-FD | 8/15/2017 | SW-7199 | Dissolved | Chromium [VI] | 16 | ug/L | H | 0.25 | 2 | J- | h | Holding Time |
| 440-190400-1 | UFMW-01I-20170816 | 8/16/2017 | SW-7199 | Dissolved | Chromium [VI] | 0.78 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-190453-1 | UFMW-01S-20170817 | 8/17/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-190453-1 | UFMW-02D-20170817 | 8/17/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|--------------------------------------|---------|-------|---------------|---------|---------|---------------------|-------------|------------------------|
| 440-190453-1 | UFMW-02I-20170817 | 8/17/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U F1 | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-190453-1 | UFMW-03D-20170817 | 8/17/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-190453-1 | UFMW-03I-20170817 | 8/17/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-190453-1 | UFMW-03I-20170817-FD | 8/17/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-190453-1 | UFMW-03I-20170817 | 8/17/2017 | SW-6010B | Total | Chromium | 0.0033 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-190453-1 | UFMW-03I-20170817-FD | 8/17/2017 | SW-6010B | Total | Chromium | 0.0043 | mg/L | J | 0.0025 | 0.005 | J | sp | Detect < PQL |
| 440-190453-1 | UFMW-01S-20170817 | 8/17/2017 | SW-7199 | Dissolved | Chromium [VI] | 0.75 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-190453-1 | UFMW-03I-20170817 | 8/17/2017 | SW-7199 | Dissolved | Chromium [VI] | 1.3 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-190453-1 | UFMW-03I-20170817-FD | 8/17/2017 | SW-7199 | Dissolved | Chromium [VI] | 1.4 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-05D-20170822 | 8/22/2017 | EPA 365.3 | Total | Orthophosphate | 0.024 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-05S-20170822 | 8/22/2017 | EPA 365.3 | Total | Orthophosphate | 0.039 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-05D-20170822 | 8/22/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.073 | mg/L | J | 0.06 | 0.15 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-05S-20170822 | 8/22/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.12 | mg/L | J | 0.06 | 0.15 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-06D-20170822 | 8/22/2017 | RSK175 | Total | Methane | 0.00071 | mg/L | J | 0.00025 | 0.00099 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-05D-20170822 | 8/22/2017 | SW-6010B | Total | Iron | 0.055 | mg/L | J | 0.05 | 0.1 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-05D-20170822 | 8/22/2017 | SW-6020 | Dissolved | Aluminum | 92 | ug/L | J | 50 | 100 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-06S-20170822 | 8/22/2017 | SW-6020 | Dissolved | Antimony | 1.6 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-05S-20170822 | 8/22/2017 | SW-6020 | Dissolved | Copper | 1.9 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-06S-20170822 | 8/22/2017 | SW-6020 | Dissolved | Copper | 1.7 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-05D-20170822 | 8/22/2017 | SW-6020 | Dissolved | Iron | 130 | ug/L | J | 80 | 200 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-05D-20170822 | 8/22/2017 | SW-6020 | Dissolved | Nickel | 5.2 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-06D-20170822 | 8/22/2017 | SW-6020 | Dissolved | Nickel | 8 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-05D-20170822 | 8/22/2017 | SW-6020 | Dissolved | Selenium | 6.6 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-06D-20170822 | 8/22/2017 | SW-6020 | Dissolved | Selenium | 7.4 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-06S-20170822 | 8/22/2017 | SW-6020 | Dissolved | Selenium | 1.2 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-06D-20170822 | 8/22/2017 | SW-6020 | Dissolved | Vanadium | 10 | ug/L | U L F1 | 10 | 20 | R | m | MS %Recovery |
| 440-190752-1 | CTMW-05S-20170822 | 8/22/2017 | SW-6020 | Dissolved | Zinc | 5.5 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-06S-20170822 | 8/22/2017 | SW-6020 | Dissolved | Zinc | 5.9 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-06S-20170822 | 8/22/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 30 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-190752-1 | CTMW-05S-20170822 | 8/22/2017 | VFA-IC | Total | Acetic acid | 9.5 | mg/L | J | 5.8 | 20 | J | sp | Detect < PQL |
| 440-190843-1 | CTMW-03D-20170823 | 8/23/2017 | EPA 365.3 | Total | Orthophosphate | 0.042 | mg/L | J | 0.02 | 0.05 | J | sp | Detect < PQL |
| 440-190843-1 | CTMW-03D-20170823 | 8/23/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.13 | mg/L | J | 0.06 | 0.15 | J | sp | Detect < PQL |
| 440-190843-1 | CTMW-03D-20170823 | 8/23/2017 | EPA 365.3 | Total | Phosphorus | 0.04 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-190843-1 | CTMW-03D-20170823 | 8/23/2017 | SW-6020 | Dissolved | Iron | 89 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-190843-1 | CTMW-03D-20170823 | 8/23/2017 | SW-6020 | Dissolved | Nickel | 3.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-190843-1 | CTMW-03D-20170823 | 8/23/2017 | SW-6020 | Dissolved | Selenium | 5.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-04D-20170823 | 8/23/2017 | EPA 365.3 | Total | Phosphorus | 0.032 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-03S-20170823 | 8/23/2017 | SW-6020 | Dissolved | Aluminum | 9.2 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-03S-20170823 | 8/23/2017 | SW-6020 | Dissolved | Antimony | 0.51 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-04S-20170823 | 8/23/2017 | SW-6020 | Dissolved | Copper | 1.6 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-04D-20170823 | 8/23/2017 | SW-6020 | Dissolved | Manganese | 14 | ug/L | | 2.5 | 5 | J | fd | FD |
| 440-190847-1 | CTMW-04D-20170823-FD | 8/23/2017 | SW-6020 | Dissolved | Manganese | 21 | ug/L | | 2.5 | 5 | J | fd | FD |
| 440-190847-1 | CTMW-04D-20170823 | 8/23/2017 | SW-6020 | Dissolved | Nickel | 4.5 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-04D-20170823-FD | 8/23/2017 | SW-6020 | Dissolved | Nickel | 4.7 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-04D-20170823 | 8/23/2017 | SW-6020 | Dissolved | Selenium | 5.6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-04D-20170823-FD | 8/23/2017 | SW-6020 | Dissolved | Selenium | 5.1 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-04S-20170823 | 8/23/2017 | SW-6020 | Dissolved | Selenium | 1.4 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-03S-20170823 | 8/23/2017 | SW-6020 | Dissolved | Silver | 0.56 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-03S-20170823 | 8/23/2017 | SW-6020 | Dissolved | Vanadium | 1 | ug/L | U L F1 | 1 | 2 | R | m | MS %Recovery |
| 440-190847-1 | CTMW-03S-20170823 | 8/23/2017 | SW-6020 | Dissolved | Zinc | 8.1 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-04S-20170823 | 8/23/2017 | SW-6020 | Dissolved | Zinc | 16 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-03S-20170823 | 8/23/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 19 | ug/L | J | 8.8 | 20 | J | sp | Detect < PQL |
| 440-190847-1 | CTMW-04D-20170823 | 8/23/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 24 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|--------------------------------------|---------|-------|---------------|---------|---------|---------------------|-------------|------------------------|
| 440-190847-1 | CTMW-04D-20170823-FD | 8/23/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 27 | ug/L | J | 18 | 40 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-01S-20170824 | 8/24/2017 | EPA 300.0 | Total | Nitrate | 4.8 | mg/L | J | 2.8 | 5.5 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-01D-20170824 | 8/24/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-190950-1 | CTMW-01S-20170824 | 8/24/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 9500 | mg/L | | 250 | 500 | J- | m | MS %Recovery |
| 440-190950-1 | CTMW-02D-20170824 | 8/24/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U F1 | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-190950-1 | CTMW-01D-20170824 | 8/24/2017 | EPA 365.3 | Total | Orthophosphate | 0.1 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-190950-1 | CTMW-01S-20170824 | 8/24/2017 | EPA 365.3 | Total | Orthophosphate | 5.6 | mg/L | | 0.2 | 0.5 | J- | m | MS %Recovery |
| 440-190950-1 | CTMW-02D-20170824 | 8/24/2017 | EPA 365.3 | Total | Orthophosphate | 0.1 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-190950-1 | CTMW-01D-20170824 | 8/24/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.31 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-190950-1 | CTMW-01S-20170824 | 8/24/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 17 | mg/L | | 0.6 | 1.5 | J- | m | MS %Recovery |
| 440-190950-1 | CTMW-02D-20170824 | 8/24/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.32 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-190950-1 | CTMW-01D-20170824 | 8/24/2017 | SM5220D | Total | Chemical Oxygen Demand | 480 | mg/L | | 50 | 100 | J- | m | MS %Recovery |
| 440-190950-1 | CTMW-01S-20170824 | 8/24/2017 | SM5220D | Total | Chemical Oxygen Demand | 17000 | mg/L | | 1000 | 2000 | J- | m | MS %Recovery |
| 440-190950-1 | CTMW-02D-20170824 | 8/24/2017 | SM5220D | Total | Chemical Oxygen Demand | 50 | mg/L | U F1 | 50 | 100 | R | m | MS %Recovery |
| 440-190950-1 | CTMW-01D-20170824 | 8/24/2017 | SW-6010B | Total | Iron | 0.17 | mg/L | J | 0.1 | 0.2 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-02D-20170824 | 8/24/2017 | SW-6010B | Total | Iron | 0.17 | mg/L | J | 0.1 | 0.2 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-01D-20170824 | 8/24/2017 | SW-6020 | Dissolved | Nickel | 8 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-02D-20170824 | 8/24/2017 | SW-6020 | Dissolved | Nickel | 9.2 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-01D-20170824 | 8/24/2017 | SW-6020 | Dissolved | Selenium | 6 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-02D-20170824 | 8/24/2017 | SW-6020 | Dissolved | Selenium | 7.8 | ug/L | J | 5 | 20 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-01S-20170824 | 8/24/2017 | SW-6020 | Dissolved | Vanadium | 19 | ug/L | J | 10 | 20 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-02D-20170824 | 8/24/2017 | SW-6020 | Dissolved | Vanadium | 10 | ug/L | U L F1 | 10 | 20 | R | m | MS %Recovery |
| 440-190950-1 | CTMW-02D-20170824 | 8/24/2017 | SW-6020 | Dissolved | Zinc | 33 | ug/L | J | 25 | 200 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-01D-20170824 | 8/24/2017 | SW-8260B | Total | Acetone | 320 | ug/L | J | 200 | 400 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-01S-20170824 | 8/24/2017 | SW-8260B | Total | Acetone | 630 | ug/L | J | 500 | 1000 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-01S-20170824 | 8/24/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 78 | ug/L | J | 44 | 100 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-02D-20170824 | 8/24/2017 | VFA-IC | Total | Acetic acid | 7 | mg/L | J | 5.8 | 20 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-01D-20170824 | 8/24/2017 | VFA-IC | Total | Propionic acid | 7 | mg/L | J | 7 | 20 | J | sp | Detect < PQL |
| 440-190950-1 | CTMW-02D-20170824 | 8/24/2017 | VFA-IC | Total | Pyruvic Acid | 7.4 | mg/L | U F1 | 7.4 | 30 | UJ | m | MS %Recovery |
| 440-192518-1 | CTMW-06D-20170919 | 9/19/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 1.8 | mg/L | | 0.06 | 0.15 | J | fd | FD |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 1.3 | mg/L | | 0.06 | 0.15 | J | fd | FD |
| 440-192518-1 | CTMW-05S-20170919 | 9/19/2017 | EPA 365.3 | Total | Phosphorus | 0.037 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06D-20170919 | 9/19/2017 | EPA 365.3 | Total | Phosphorus | 0.034 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | EPA 365.3 | Total | Phosphorus | 0.04 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06D-20170919 | 9/19/2017 | RSK175 | Total | Methane | 0.00034 | mg/L | J | 0.00025 | 0.00099 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | RSK175 | Total | Methane | 0.00033 | mg/L | J | 0.00025 | 0.00099 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | RSK175 | Total | Methane | 0.078 | mg/L | | 0.00025 | 0.00099 | J- | h | Holding Time |
| 440-192518-1 | CTMW-06D-20170919 | 9/19/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | UF1 | 0.027 | 0.05 | R | m | MS %Recovery |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | R | m | MS %Recovery |
| 440-192518-1 | CTMW-05D-20170919 | 9/19/2017 | SW-6010B | Total | Manganese | 0.016 | mg/L | J | 0.015 | 0.02 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-6020 | Dissolved | Antimony | 1.9 | ug/L | J | 1 | 4 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-05S-20170919 | 9/19/2017 | SW-6020 | Dissolved | Cobalt | 1.3 | ug/L | J | 1 | 2 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-6020 | Dissolved | Cobalt | 1.3 | ug/L | J | 1 | 2 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-05S-20170919 | 9/19/2017 | SW-6020 | Dissolved | Copper | 2.8 | ug/L | J | 1 | 4 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-6020 | Dissolved | Copper | 2.9 | ug/L | J | 1 | 4 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-05D-20170919 | 9/19/2017 | SW-6020 | Dissolved | Nickel | 3.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06D-20170919 | 9/19/2017 | SW-6020 | Dissolved | Nickel | 5.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | SW-6020 | Dissolved | Nickel | 5.7 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-05D-20170919 | 9/19/2017 | SW-6020 | Dissolved | Selenium | 5.6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | SW-6020 | Dissolved | Selenium | 5.1 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-6020 | Dissolved | Selenium | 1.1 | ug/L | J | 1 | 4 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06D-20170919 | 9/19/2017 | SW-6020 | Dissolved | Silver | 36 | ug/L | F1B | 2.5 | 5 | J | fd,m | FD, MS %Recovery |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | SW-6020 | Dissolved | Silver | 2.5 | ug/L | U | 2.5 | 5 | UJ | fd,m | FD, MS %Recovery |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|----------|--------------------|--------------------------------------|--------|-------|---------------|------|-----|---------------------|-------------|------------------------|
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-6020 | Dissolved | Uranium | 1.4 | ug/L | J | 1 | 2 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-6020 | Dissolved | Vanadium | 2 | ug/L | J | 2 | 4 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-05S-20170919 | 9/19/2017 | SW-6020 | Dissolved | Zinc | 9.3 | ug/L | J | 5 | 40 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-6020 | Dissolved | Zinc | 16 | ug/L | J | 5 | 40 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,1,1,2-Tetrachloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,1,1-Trichloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,1,2,2-Tetrachloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,1,2-Trichloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,1-Dichloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,1-Dichloroethene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,1-Dichloropropene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | SW-8260B | Total | 1,2,3-Trichlorobenzene | 0.72 | ug/L | J | 0.4 | 1 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,2,3-Trichlorobenzene | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,2,3-Trichloropropane | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,2,4-Trichlorobenzene | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,2,4-Trimethylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,2-Dichlorobenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,2-Dichloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,2-Dichloropropane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,3,5-Trimethylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | SW-8260B | Total | 1,3-Dichlorobenzene | 0.32 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,3-Dichlorobenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,3-Dichloropropane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 1,4-Dichlorobenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 2,2-Dichloropropane | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 2-Chlorotoluene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 2-Hexanone | 50 | ug/L | U | 50 | 100 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 2-Methoxy-2-methyl-butane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 4-Chlorotoluene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | 4-Methyl-2-pentanone [MIBK] | 50 | ug/L | U | 50 | 100 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Acetone | 780 | ug/L | U | 200 | 400 | J- | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Benzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Bromobenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | SW-8260B | Total | Bromodichloromethane | 0.27 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Bromodichloromethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Bromoform | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Bromomethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Carbon tetrachloride | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Chlorobenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Chlorobromomethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Chloroethane | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Chloroform | 170 | ug/L | U | 5 | 10 | J- | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Chloromethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | cis-1,2-Dichloroethene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | cis-1,3-Dichloropropene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Cymene [Isopropyltoluene] | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Dibromochloromethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Dibromochloropropane | 10 | ug/L | U | 10 | 20 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Dibromomethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 1.1 | ug/L | J | 0.88 | 2 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 41 | ug/L | U | 18 | 40 | J- | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Diisopropyl ether | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Ethane, 1,2-dibromo- | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|--------------------------------------|--------|-------|---------------|-------|------|---------------------|-------------|------------------------|
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Ethyl tert-butyl ether | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Ethylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Freon-11 [Trichlorofluoromethane] | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Freon-12 [Dichlorodifluoromethane] | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | SW-8260B | Total | Hexachlorobutadiene | 0.45 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Hexachlorobutadiene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Isopropylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | m,p-Xylene | 10 | ug/L | U | 10 | 20 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Methyl ethyl ketone [2-Butanone] | 3700 | ug/L | | 50 | 100 | J- | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | MTBE [Methyl tert-butyl ether] | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Naphthalene | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | n-Butyl benzene | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | n-Propylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | o-Xylene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | sec-Butylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Styrene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | tert-Butyl alcohol | 100 | ug/L | U | 100 | 200 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | tert-Butyl benzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06D-20170919-FD | 9/19/2017 | SW-8260B | Total | Tetrachloroethene | 0.44 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Tetrachloroethene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Toluene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | trans-1,2-Dichloroethene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | trans-1,3-Dichloropropene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Trichloroethene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Vinyl chloride | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-192518-1 | CTMW-06S-20170919 | 9/19/2017 | SW-8260B | Total | Xylenes [total] | 10 | ug/L | U | 10 | 20 | R | h | Holding Time |
| 440-192617-1 | CTMW-02D-20170920 | 9/20/2017 | EPA 365.3 | Total | Orthophosphate | 0.21 | mg/L | F1 F2 | 0.02 | 0.05 | J | m,ld | MS %Recovery, Lab RPD |
| 440-192617-1 | CTMW-02D-20170920 | 9/20/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.65 | mg/L | F1 F2 | 0.06 | 0.15 | J | m,ld | MS %Recovery, Lab RPD |
| 440-192617-1 | CTMW-02D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Copper | 3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192617-1 | CTMW-02D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Iron | 60 | ug/L | J B | 40 | 100 | J | sp | Detect < PQL |
| 440-192617-1 | CTMW-02D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Nickel | 6.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192617-1 | CTMW-02D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Selenium | 4.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192617-1 | CTMW-02D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Vanadium | 5 | ug/L | U L F1 | 5 | 10 | R | m | MS %Recovery |
| 440-192619-1 | CTMW-01S-20170920 | 9/20/2017 | EPA 365.3 | Total | Phosphorus | 0.79 | mg/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01S-20170920 | 9/20/2017 | SM4500-S2-D | Total | Sulfide | 0.035 | mg/L | J | 0.027 | 0.05 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01S-20170920 | 9/20/2017 | SW-6020 | Dissolved | Antimony | 4.2 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-02S-20170920 | 9/20/2017 | SW-6020 | Dissolved | Antimony | 3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01S-20170920 | 9/20/2017 | SW-6020 | Dissolved | Cobalt | 2.8 | ug/L | J | 2.5 | 5 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Copper | 3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01S-20170920 | 9/20/2017 | SW-6020 | Dissolved | Copper | 3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Iron | 83 | ug/L | J B | 40 | 100 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-04D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Iron | 90 | ug/L | J B | 40 | 100 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Nickel | 7.4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-04D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Nickel | 4.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Selenium | 5.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-04D-20170920 | 9/20/2017 | SW-6020 | Dissolved | Selenium | 5.2 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01S-20170920 | 9/20/2017 | SW-6020 | Dissolved | Vanadium | 8.1 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-02S-20170920 | 9/20/2017 | SW-6020 | Dissolved | Vanadium | 9.8 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-02S-20170920 | 9/20/2017 | SW-6020 | Dissolved | Zinc | 14 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01S-20170920 | 9/20/2017 | SW-7199 | Dissolved | Chromium [VI] | 0.37 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01S-20170920 | 9/20/2017 | SW-8260B | Total | Acetone | 750 | ug/L | J | 500 | 1000 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-01S-20170920 | 9/20/2017 | SW-8260B | Total | Chloroform | 19 | ug/L | J | 13 | 25 | J | sp | Detect < PQL |
| 440-192619-1 | CTMW-02S-20170920 | 9/20/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 25 | ug/L | J | 22 | 50 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|-------------------|-------------|------------|--------------------|--------------------------------------|--------|-------|---------------|---------|---------|---------------------|-------------|----------------------------|
| 440-192619-1 | CTMW-01D-20170920 | 9/20/2017 | VFA-IC | Total | Pyruvic Acid | 3.7 | mg/L | U F1 F2 | 3.7 | 15 | UJ | m | MS %Recovery |
| 440-192711-1 | CTMW-04S-20170921 | 9/21/2017 | EPA 300.0 | Total | Sulfate | 390 | mg/L | F1 | 5 | 10 | J+ | m | MS %Recovery |
| 440-192711-1 | CTMW-03D-20170921 | 9/21/2017 | EPA 365.3 | Total | Orthophosphate | 0.055 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-192711-1 | CTMW-03S-20170921 | 9/21/2017 | EPA 365.3 | Total | Orthophosphate | 0.18 | mg/L | | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-192711-1 | CTMW-04S-20170921 | 9/21/2017 | EPA 365.3 | Total | Orthophosphate | 0.036 | mg/L | J | 0.02 | 0.05 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-192711-1 | CTMW-03D-20170921 | 9/21/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.17 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-192711-1 | CTMW-03S-20170921 | 9/21/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.54 | mg/L | | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-192711-1 | CTMW-04S-20170921 | 9/21/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.11 | mg/L | J | 0.06 | 0.15 | J | m,sp | MS %Recovery, Detect < PQL |
| 440-192711-1 | CTMW-04S-20170921 | 9/21/2017 | SW-6020 | Dissolved | Antimony | 1.3 | ug/L | J | 1 | 4 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-03S-20170921 | 9/21/2017 | SW-6020 | Dissolved | Copper | 4.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-04S-20170921 | 9/21/2017 | SW-6020 | Dissolved | Copper | 1.9 | ug/L | J | 1 | 4 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-03D-20170921 | 9/21/2017 | SW-6020 | Dissolved | Nickel | 3.1 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-03S-20170921 | 9/21/2017 | SW-6020 | Dissolved | Nickel | 4.6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-03D-20170921 | 9/21/2017 | SW-6020 | Dissolved | Selenium | 6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-03S-20170921 | 9/21/2017 | SW-6020 | Dissolved | Selenium | 8.6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-04S-20170921 | 9/21/2017 | SW-6020 | Dissolved | Selenium | 1.3 | ug/L | J | 1 | 4 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-03S-20170921 | 9/21/2017 | SW-6020 | Dissolved | Silver | 57 | ug/L | F1 F2 | 2.5 | 5 | J- | m,ld | MS %Recovery, Lab RPD |
| 440-192711-1 | CTMW-03S-20170921 | 9/21/2017 | SW-6020 | Dissolved | Vanadium | 5 | ug/L | U L F1 | 5 | 10 | R | m | MS %Recovery |
| 440-192711-1 | CTMW-04S-20170921 | 9/21/2017 | SW-6020 | Dissolved | Vanadium | 3.8 | ug/L | J | 2 | 4 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-04S-20170921 | 9/21/2017 | SW-6020 | Dissolved | Zinc | 5 | ug/L | J | 5 | 40 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-04S-20170921 | 9/21/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 1.7 | ug/L | J | 0.88 | 2 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-04S-20170921 | 9/21/2017 | SW-8260B | Total | MTBE [Methyl tert-butyl ether] | 0.49 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-192711-1 | CTMW-03D-20170921 | 9/21/2017 | SW-8260B | Total | Tetrachloroethene | 0.37 | ug/L | J | 0.25 | 0.5 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-04S-20171003 | 10/3/2017 | EPA 300.0 | Total | Nitrate | 5.3 | mg/L | J | 2.8 | 5.5 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | EPA 300.0 | Total | Sulfate | 6.5 | mg/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | EPA 300.1B | Total | Chlorate | 610 | ug/L | J | 500 | 1000 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | EPA 314.0 | Total | Perchlorate | 150 | ug/L | F1 | 5 | 10 | J+ | m | MS %Recovery |
| 440-193441-1 | CTMW-03S-20171003 | 10/3/2017 | EPA 365.3 | Total | Phosphorus | 0.049 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | RSK175 | Total | Methane | 1.8 | mg/L | | 0.5 | 1 | J- | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | RSK175 | Total | Methane | 2.3 | mg/L | | 0.5 | 1 | J- | h | Holding Time |
| 440-193441-1 | CTMW-04S-20171003 | 10/3/2017 | RSK175 | Total | Methane | 0.094 | mg/L | | 0.00025 | 0.00099 | J- | h | Holding Time |
| 440-193441-1 | CTMW-01D-20171003 | 10/3/2017 | SM5310B | Total | Total Organic Carbon | 440 | mg/L | | 13 | 20 | J- | h,pH | Holding Time, Preservation |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SM5310B | Total | Total Organic Carbon | 6300 | mg/L | | 130 | 200 | J- | h,pH | Holding Time, Preservation |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SM5310B | Total | Total Organic Carbon | 1900 | mg/L | | 130 | 200 | J- | h,pH | Holding Time, Preservation |
| 440-193441-1 | CTMW-04S-20171003 | 10/3/2017 | SM5310B | Total | Total Organic Carbon | 140 | mg/L | | 13 | 20 | J- | h,pH | Holding Time, Preservation |
| 440-193441-1 | CTMW-03D-20171003 | 10/3/2017 | SW-6010B | Total | Iron | 0.095 | mg/L | J | 0.05 | 0.1 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-01D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Aluminum | 6.2 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-01D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Antimony | 0.54 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-6020 | Dissolved | Antimony | 2.5 | ug/L | J | 1 | 4 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-01D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Cobalt | 0.5 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-01D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Copper | 0.58 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-6020 | Dissolved | Copper | 2.8 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-04D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Copper | 8.6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-04S-20171003 | 10/3/2017 | SW-6020 | Dissolved | Iron | 62 | ug/L | J | 40 | 100 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-6020 | Dissolved | Lead | 1.2 | ug/L | J | 1 | 2 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-02D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Nickel | 7.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-03D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Nickel | 3.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-03S-20171003 | 10/3/2017 | SW-6020 | Dissolved | Nickel | 6.5 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-04D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Nickel | 4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-04S-20171003 | 10/3/2017 | SW-6020 | Dissolved | Nickel | 2.5 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-02D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Selenium | 3.4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-03D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Selenium | 3.4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-03S-20171003 | 10/3/2017 | SW-6020 | Dissolved | Selenium | 3.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|-------------------|-------------|----------|--------------------|---------------------------|--------|-------|---------------|-----|-----|---------------------|-------------|----------------------------|
| 440-193441-1 | CTMW-04D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Selenium | 3.2 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-02D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Vanadium | 5 | ug/L | UL | 5 | 10 | UJ | q | Quantitation |
| 440-193441-1 | CTMW-03D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Vanadium | 5 | ug/L | UL | 5 | 10 | UJ | q | Quantitation |
| 440-193441-1 | CTMW-04D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Vanadium | 5 | ug/L | UL | 5 | 10 | UJ | q | Quantitation |
| 440-193441-1 | CTMW-01D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Zinc | 3.7 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-6020 | Dissolved | Zinc | 16 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-02D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Zinc | 39 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-6020 | Dissolved | Zinc | 22 | ug/L | J | 5 | 40 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-03D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Zinc | 29 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-03S-20171003 | 10/3/2017 | SW-6020 | Dissolved | Zinc | 31 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-04D-20171003 | 10/3/2017 | SW-6020 | Dissolved | Zinc | 19 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-04S-20171003 | 10/3/2017 | SW-6020 | Dissolved | Zinc | 21 | ug/L | J | 13 | 100 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1,1,2-Tetrachloroethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1,1,2-Tetrachloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1,1-Trichloroethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1,1-Trichloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1,2,2-Tetrachloroethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1,2,2-Tetrachloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1,2-Trichloroethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1,2-Trichloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1-Dichloroethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1-Dichloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1-Dichloroethene | 35 | ug/L | J | 25 | 50 | J | h,sp | Holding Time, Detect < PQL |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1-Dichloroethene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1-Dichloropropene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,1-Dichloropropene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2,3-Trichlorobenzene | 40 | ug/L | U | 40 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2,3-Trichlorobenzene | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2,3-Trichloropropane | 40 | ug/L | U | 40 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2,3-Trichloropropane | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2,4-Trichlorobenzene | 40 | ug/L | U | 40 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2,4-Trichlorobenzene | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2,4-Trimethylbenzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2,4-Trimethylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2-Dichlorobenzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2-Dichlorobenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2-Dichloroethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2-Dichloroethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2-Dichloropropane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,2-Dichloropropane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,3,5-Trimethylbenzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,3,5-Trimethylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,3-Dichlorobenzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,3-Dichlorobenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,3-Dichloropropane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,3-Dichloropropane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 1,4-Dichlorobenzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02D-20171003 | 10/3/2017 | SW-8260B | Total | 1,4-Dichlorobenzene | 10 | ug/L | J | 10 | 20 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 1,4-Dichlorobenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 2,2-Dichloropropane | 40 | ug/L | U | 40 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 2,2-Dichloropropane | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 2-Chlorotoluene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 2-Chlorotoluene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|-------------------|-------------|----------|--------------------|--------------------------------------|--------|-------|---------------|------|------|---------------------|-------------|----------------------------|
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 2-Hexanone | 250 | ug/L | U | 250 | 500 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 2-Hexanone | 50 | ug/L | U | 50 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 2-Methoxy-2-methyl-butane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 2-Methoxy-2-methyl-butane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 4-Chlorotoluene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 4-Chlorotoluene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | 4-Methyl-2-pentanone [MIBK] | 250 | ug/L | U | 250 | 500 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | 4-Methyl-2-pentanone [MIBK] | 50 | ug/L | U | 50 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-01D-20171003 | 10/3/2017 | SW-8260B | Total | Acetone | 560 | ug/L | J | 400 | 800 | J | sp | Detect < PQL |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Acetone | 1000 | ug/L | U | 1000 | 2000 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Acetone | 200 | ug/L | U | 200 | 400 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Benzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Benzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Bromobenzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Bromobenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Bromodichloromethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Bromodichloromethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Bromoform | 40 | ug/L | U | 40 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Bromoform | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Bromomethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Bromomethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Carbon tetrachloride | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Carbon tetrachloride | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Chlorobenzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Chlorobenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Chlorobromomethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Chlorobromomethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Chloroethane | 40 | ug/L | U | 40 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Chloroethane | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Chloroform | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Chloroform | 13 | ug/L | U | 5 | 10 | J- | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Chloromethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Chloromethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | cis-1,2-Dichloroethene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | cis-1,2-Dichloroethene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | cis-1,3-Dichloropropene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | cis-1,3-Dichloropropene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Cymene [Isopropyltoluene] | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Cymene [Isopropyltoluene] | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Dibromochloromethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Dibromochloromethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Dibromochloropropane | 50 | ug/L | U | 50 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Dibromochloropropane | 10 | ug/L | U | 10 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Dibromomethane | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Dibromomethane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 140 | ug/L | J | 88 | 200 | J | h,sp | Holding Time, Detect < PQL |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 27 | ug/L | J | 18 | 40 | J | h,sp | Holding Time, Detect < PQL |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Diisopropyl ether | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Diisopropyl ether | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Ethane, 1,2-dibromo- | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Ethane, 1,2-dibromo- | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Ethyl tert-butyl ether | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Ethyl tert-butyl ether | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|-------------------|-------------|----------|--------------------|------------------------------------|--------|-------|---------------|---------|---------|---------------------|-------------|----------------------------|
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Ethylbenzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Ethylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Freon-11 [Trichlorofluoromethane] | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Freon-11 [Trichlorofluoromethane] | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Freon-12 [Dichlorodifluoromethane] | 40 | ug/L | U | 40 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Freon-12 [Dichlorodifluoromethane] | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Hexachlorobutadiene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Hexachlorobutadiene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Isopropylbenzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Isopropylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | m,p-Xylene | 50 | ug/L | U | 50 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | m,p-Xylene | 10 | ug/L | U | 10 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Methyl ethyl ketone [2-Butanone] | 11000 | ug/L | | 250 | 500 | J- | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Methyl ethyl ketone [2-Butanone] | 1200 | ug/L | | 50 | 100 | J- | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | MTBE [Methyl tert-butyl ether] | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | MTBE [Methyl tert-butyl ether] | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Naphthalene | 40 | ug/L | U | 40 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Naphthalene | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | n-Butyl benzene | 40 | ug/L | U | 40 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | n-Butyl benzene | 8 | ug/L | U | 8 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | n-Propylbenzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | n-Propylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | o-Xylene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | o-Xylene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | sec-Butylbenzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | sec-Butylbenzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Styrene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Styrene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | tert-Butyl alcohol | 500 | ug/L | U | 500 | 1000 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | tert-Butyl alcohol | 100 | ug/L | U | 100 | 200 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | tert-Butyl benzene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | tert-Butyl benzene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Tetrachloroethene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Tetrachloroethene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Toluene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Toluene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | trans-1,2-Dichloroethene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | trans-1,2-Dichloroethene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | trans-1,3-Dichloropropene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | trans-1,3-Dichloropropene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Trichloroethene | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Trichloroethene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Vinyl chloride | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Vinyl chloride | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193441-1 | CTMW-01S-20171003 | 10/3/2017 | SW-8260B | Total | Xylenes [total] | 50 | ug/L | U | 50 | 100 | R | h | Holding Time |
| 440-193441-1 | CTMW-02S-20171003 | 10/3/2017 | SW-8260B | Total | Xylenes [total] | 10 | ug/L | U | 10 | 20 | R | h | Holding Time |
| 440-193441-1 | CTMW-01D-20171003 | 10/3/2017 | VFA-IC | Total | Propionic acid | 33 | mg/L | F1 | 7 | 20 | J+ | m | MS %Recovery |
| 440-193441-1 | CTMW-01D-20171003 | 10/3/2017 | VFA-IC | Total | Pyruvic Acid | 7.4 | mg/L | UF1 | 7.4 | 30 | UJ | m | MS %Recovery |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | RSK175 | Total | Methane | 0.27 | mg/L | | 0.00025 | 0.00099 | J- | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SM5310B | Total | Total Organic Carbon | 3000 | mg/L | | 65 | 100 | J- | h,pH | Holding Time, Preservation |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-6020 | Dissolved | Aluminum | 7.2 | ug/L | J | 5 | 10 | J | sp | Detect < PQL |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-6020 | Dissolved | Selenium | 0.82 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-6020 | Dissolved | Vanadium | 1.4 | ug/L | J | 1 | 2 | J | sp | Detect < PQL |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|-------------------|-------------|----------|--------------------|--------------------------------------|--------|-------|---------------|-----|-----|---------------------|-------------|----------------------------|
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-6020 | Dissolved | Zinc | 3.3 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,1,1,2-Tetrachloroethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,1,1-Trichloroethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,1,2,2-Tetrachloroethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,1,2-Trichloroethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,1-Dichloroethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,1-Dichloroethene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,1-Dichloropropene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,2,3-Trichlorobenzene | 4 | ug/L | U | 4 | 10 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,2,3-Trichloropropane | 4 | ug/L | U | 4 | 10 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,2,4-Trichlorobenzene | 4 | ug/L | U | 4 | 10 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,2,4-Trimethylbenzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,2-Dichlorobenzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,2-Dichloroethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,2-Dichloropropane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,3,5-Trimethylbenzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,3-Dichlorobenzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,3-Dichloropropane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 1,4-Dichlorobenzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 2,2-Dichloropropane | 4 | ug/L | U | 4 | 10 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 2-Chlorotoluene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 2-Hexanone | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 2-Methoxy-2-methyl-butane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 4-Chlorotoluene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | 4-Methyl-2-pentanone [MIBK] | 25 | ug/L | U | 25 | 50 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Acetone | 620 | ug/L | | 100 | 200 | J- | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Benzene | 2.6 | ug/L | J | 2.5 | 5 | J | h,sp | Holding Time, Detect < PQL |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Bromobenzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Bromodichloromethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Bromoform | 4 | ug/L | U | 4 | 10 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Bromomethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Carbon tetrachloride | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Chlorobenzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Chlorobromomethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Chloroethane | 4 | ug/L | U | 4 | 10 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Chloroform | 120 | ug/L | | 2.5 | 5 | J- | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Chloromethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | cis-1,2-Dichloroethene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | cis-1,3-Dichloropropene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Cymene [Isopropyltoluene] | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Dibromochloromethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Dibromochloropropane | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Dibromomethane | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Dichloromethane [Methylene chloride] | 13 | ug/L | J | 8.8 | 20 | J | h,sp | Holding Time, Detect < PQL |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Diisopropyl ether | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Ethane, 1,2-dibromo- | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Ethyl tert-butyl ether | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Ethylbenzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Freon-11 [Trichlorofluoromethane] | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Freon-12 [Dichlorodifluoromethane] | 4 | ug/L | U | 4 | 10 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Hexachlorobutadiene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Isopropylbenzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | m,p-Xylene | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|----------------------------------|---------|-------|---------------|---------|---------|---------------------|-------------|-------------------------------------|
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Methyl ethyl ketone [2-Butanone] | 4000 | ug/L | | 250 | 500 | J- | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | MTBE [Methyl tert-butyl ether] | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Naphthalene | 4 | ug/L | U | 4 | 10 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | n-Butyl benzene | 4 | ug/L | U | 4 | 10 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | n-Propylbenzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | o-Xylene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | sec-Butylbenzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Styrene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | tert-Butyl alcohol | 50 | ug/L | U | 50 | 100 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | tert-Butyl benzene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Tetrachloroethene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Toluene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | trans-1,2-Dichloroethene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | trans-1,3-Dichloropropene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Trichloroethene | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Vinyl chloride | 2.5 | ug/L | U | 2.5 | 5 | R | h | Holding Time |
| 440-193508-1 | CTMW-06S-20171004 | 10/4/2017 | SW-8260B | Total | Xylenes [total] | 5 | ug/L | U | 5 | 10 | R | h | Holding Time |
| 440-193514-1 | CTMW-06D-20171004-FD | 10/4/2017 | EPA 365.3 | Total | Phosphorus | 0.029 | mg/L | J | 0.025 | 0.05 | J | sp | Detect < PQL |
| 440-193514-1 | CTMW-06D-20171004-FD | 10/4/2017 | SW-6020 | Dissolved | Aluminum | 35 | ug/L | J | 25 | 50 | J | sp | Detect < PQL |
| 440-193514-1 | CTMW-05S-20171004 | 10/4/2017 | SW-6020 | Dissolved | Cobalt | 0.52 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-193514-1 | CTMW-05S-20171004 | 10/4/2017 | SW-6020 | Dissolved | Iron | 17 | ug/L | J | 8 | 20 | J | sp | Detect < PQL |
| 440-193514-1 | CTMW-06D-20171004 | 10/4/2017 | SW-6020 | Dissolved | Nickel | 2.7 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193514-1 | CTMW-06D-20171004-FD | 10/4/2017 | SW-6020 | Dissolved | Nickel | 2.6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193514-1 | CTMW-06D-20171004 | 10/4/2017 | SW-6020 | Dissolved | Selenium | 4.1 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193514-1 | CTMW-06D-20171004-FD | 10/4/2017 | SW-6020 | Dissolved | Selenium | 4.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193514-1 | CTMW-06D-20171004 | 10/4/2017 | VFA-IC | Total | Propionic acid | 3.5 | mg/L | U | 3.5 | 10 | UJ | fd | FD |
| 440-193514-1 | CTMW-06D-20171004-FD | 10/4/2017 | VFA-IC | Total | Propionic acid | 26 | mg/L | | 3.5 | 10 | J | fd | FD |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0.1 | mg/L | U F1 | 0.1 | 0.2 | R | m | MS %Recovery |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | EPA 365.3 | Total | Orthophosphate | 0.077 | mg/L | F1 | 0.02 | 0.05 | J- | m | MS %Recovery |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | EPA 365.3 | Total | Orthophosphorus as PO4 | 0.24 | mg/L | F1 | 0.06 | 0.15 | J- | m | MS %Recovery |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | EPA 365.3 | Total | Phosphorus | 0.025 | mg/L | U F1 | 0.025 | 0.05 | UJ | m | MS %Recovery |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | RSK175 | Total | Methane | 0.00044 | mg/L | J | 0.00025 | 0.00099 | J | sp | Detect < PQL |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U F1 | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | SM5220D | Total | Chemical Oxygen Demand | 20 | mg/L | U F1 | 20 | 40 | R | m | MS %Recovery |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | SW-6010B | Total | Iron | 0.78 | mg/L | F1 | 0.05 | 0.1 | J+ | m | MS %Recovery |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | SW-6020 | Dissolved | Antimony | 3.6 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | SW-6020 | Dissolved | Copper | 16 | ug/L | F1 | 2.5 | 10 | J- | m | MS %Recovery |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | SW-6020 | Dissolved | Selenium | 5.2 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | SW-6020 | Dissolved | Zinc | 25 | ug/L | J F2 F1 | 13 | 100 | J | m,ld,sp | MS %Recovery, Lab RPD, Detect < PQL |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | VFA-IC | Total | Lactic acid | 3.1 | mg/L | U F1 | 3.1 | 10 | UJ | m | MS %Recovery |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | VFA-IC | Total | Propionic acid | 3.5 | mg/L | U F1 | 3.5 | 10 | UJ | m | MS %Recovery |
| 440-193514-2 | CTMW-05D-20171004 | 10/4/2017 | VFA-IC | Total | Pyruvic Acid | 19 | mg/L | U F1 | 19 | 75 | UJ | m | MS %Recovery |
| 440-193552-1 | UFMW-06I-20171004 | 10/4/2017 | SW-6020 | Dissolved | Chromium | 9.3 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193552-1 | UFMW-05D-20171004 | 10/4/2017 | SW-6020 | Dissolved | Selenium | 4.2 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193552-1 | UFMW-05I-20171004 | 10/4/2017 | SW-6020 | Dissolved | Selenium | 2.9 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193552-1 | UFMW-06D-20171004 | 10/4/2017 | SW-6020 | Dissolved | Selenium | 4.4 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193552-1 | UFMW-06I-20171004 | 10/4/2017 | SW-6020 | Dissolved | Selenium | 3.5 | ug/L | J | 2.5 | 10 | J | sp | Detect < PQL |
| 440-193674-1 | UFMW-01D-20171005 | 10/5/2017 | SW-6020 | Dissolved | Nickel | 0.75 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193674-1 | UFMW-01D-20171005 | 10/5/2017 | SW-6020 | Dissolved | Thallium | 0.59 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-193674-1 | UFMW-01D-20171005 | 10/5/2017 | SW-6020 | Dissolved | Zinc | 5.7 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-04D-20171005 | 10/5/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-193677-1 | UFMW-04D-20171005-FD | 10/5/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-193677-1 | UFMW-04I-20171005 | 10/5/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |

Table 6 Results Qualified During Validation

| SDG | Sample ID | Sample Date | Method | Total or Dissolved | Analyte | Result | Units | Lab Qualifier | MDL | PQL | Validator Qualifier | Reason Code | Reason Code Definition |
|--------------|----------------------|-------------|-------------|--------------------|---------------|--------|-------|---------------|-------|------|---------------------|-------------|-------------------------|
| 440-193677-1 | UFMW-04S-20171005 | 10/5/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-193677-1 | UFMW-05S-20171005 | 10/5/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-193677-1 | UFMW-06S-20171005 | 10/5/2017 | SM4500-S2-D | Total | Sulfide | 0.027 | mg/L | U F1 | 0.027 | 0.05 | UJ | m | MS %Recovery |
| 440-193677-1 | UFMW-04I-20171005 | 10/5/2017 | SW-6020 | Dissolved | Aluminum | 5.7 | ug/L | J B | 5 | 10 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193677-1 | UFMW-04S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Aluminum | 7.1 | ug/L | J B | 5 | 10 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193677-1 | UFMW-05S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Aluminum | 5.6 | ug/L | J B | 5 | 10 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193677-1 | UFMW-04S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Antimony | 1 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-04S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Chromium | 2.1 | ug/L | B | 0.5 | 2 | J+ | bl | Lab Blank |
| 440-193677-1 | UFMW-05S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Chromium | 1.3 | ug/L | J B | 0.5 | 2 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193677-1 | UFMW-06S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Cobalt | 0.63 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-04D-20171005 | 10/5/2017 | SW-6020 | Dissolved | Copper | 1.7 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-04D-20171005-FD | 10/5/2017 | SW-6020 | Dissolved | Copper | 1.5 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-04I-20171005 | 10/5/2017 | SW-6020 | Dissolved | Copper | 1.7 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-06S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Copper | 1.3 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-05S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Iron | 15 | ug/L | J | 8 | 20 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-04D-20171005 | 10/5/2017 | SW-6020 | Dissolved | Nickel | 1.5 | ug/L | J B | 0.5 | 2 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193677-1 | UFMW-04D-20171005-FD | 10/5/2017 | SW-6020 | Dissolved | Nickel | 1.3 | ug/L | J B | 0.5 | 2 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193677-1 | UFMW-04I-20171005 | 10/5/2017 | SW-6020 | Dissolved | Nickel | 2 | ug/L | B | 0.5 | 2 | J+ | bl | Lab Blank |
| 440-193677-1 | UFMW-04S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Nickel | 2.7 | ug/L | B | 0.5 | 2 | J+ | bl | Lab Blank |
| 440-193677-1 | UFMW-06S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Nickel | 2.3 | ug/L | B | 0.5 | 2 | J+ | bl | Lab Blank |
| 440-193677-1 | UFMW-04I-20171005 | 10/5/2017 | SW-6020 | Dissolved | Selenium | 1.8 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-04D-20171005 | 10/5/2017 | SW-6020 | Dissolved | Zinc | 30 | ug/L | | 2.5 | 20 | J | fd | FD |
| 440-193677-1 | UFMW-04D-20171005-FD | 10/5/2017 | SW-6020 | Dissolved | Zinc | 3.5 | ug/L | J | 2.5 | 20 | J | fd,sp | FD, Detect < PQL |
| 440-193677-1 | UFMW-04I-20171005 | 10/5/2017 | SW-6020 | Dissolved | Zinc | 6 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-04S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Zinc | 3.7 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-05S-20171005 | 10/5/2017 | SW-6020 | Dissolved | Zinc | 7.6 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-193677-1 | UFMW-05S-20171005 | 10/5/2017 | SW-7199 | Total | Chromium [VI] | 1.1 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-01I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Aluminum | 5.9 | ug/L | J B | 5 | 10 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193776-1 | UFMW-02I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Aluminum | 5.7 | ug/L | J B | 5 | 10 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193776-1 | UFMW-03D-20171006 | 10/6/2017 | SW-6020 | Dissolved | Aluminum | 5 | ug/L | J B | 5 | 10 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193776-1 | UFMW-01I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Chromium | 0.99 | ug/L | J B | 0.5 | 2 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193776-1 | UFMW-03I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Cobalt | 0.51 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-01I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Copper | 1.4 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-02D-20171006 | 10/6/2017 | SW-6020 | Dissolved | Copper | 1.4 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-02I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Copper | 1.7 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-03D-20171006 | 10/6/2017 | SW-6020 | Dissolved | Copper | 1.5 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-03I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Copper | 1.4 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-01I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Nickel | 1.8 | ug/L | J B | 0.5 | 2 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193776-1 | UFMW-02D-20171006 | 10/6/2017 | SW-6020 | Dissolved | Nickel | 1.9 | ug/L | J B | 0.5 | 2 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193776-1 | UFMW-02I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Nickel | 2 | ug/L | B | 0.5 | 2 | J+ | bl | Lab Blank |
| 440-193776-1 | UFMW-03D-20171006 | 10/6/2017 | SW-6020 | Dissolved | Nickel | 1.5 | ug/L | J B | 0.5 | 2 | J | bl,sp | Lab Blank, Detect < PQL |
| 440-193776-1 | UFMW-01I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Selenium | 1.8 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-02I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Selenium | 1.8 | ug/L | J | 0.5 | 2 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-02D-20171006 | 10/6/2017 | SW-6020 | Dissolved | Thallium | 0.8 | ug/L | J | 0.5 | 1 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-01I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Zinc | 3.7 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-02D-20171006 | 10/6/2017 | SW-6020 | Dissolved | Zinc | 2.7 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-02I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Zinc | 6 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-03D-20171006 | 10/6/2017 | SW-6020 | Dissolved | Zinc | 15 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-03I-20171006 | 10/6/2017 | SW-6020 | Dissolved | Zinc | 2.5 | ug/L | J | 2.5 | 20 | J | sp | Detect < PQL |
| 440-193776-1 | UFMW-01I-20171006 | 10/6/2017 | SW-7199 | Total | Chromium [VI] | 0.8 | ug/L | J | 0.25 | 2 | J | sp | Detect < PQL |

Table 7 MS/MSD RPD Exceedances

| SDG | Method | Total or Dissolved | Sample | Analyte | RPD (%) | Allowed RPD (%) |
|--------------|-------------------|--------------------|------------------------|------------------------------------|---------|-----------------|
| 440-154551-1 | SW-6010B | Total | UFIW-02D-20160803 | Chromium | 59 | 20 |
| 440-159616-1 | EPA 300.0 | Total | UFIW-03D-20160923 | Nitrate | 23 | 20 |
| 440-167766-1 | SW-7199 | N/A | CTMW-03-55.0-20161201 | Chromium [VI] | 24 | 20 |
| 440-180320-2 | EPA 300.0-soluble | Total | CTMW-04D-40.0-20170322 | Nitrate | 36 | 20 |
| 440-181291-1 | SW-6020 | Dissolved | CTMW-02D-20170404 | Zinc | 40 | 20 |
| 440-187020-1 | EPA 300.0 | Total | UFMW-05D-20170621 | Nitrate | 62 | 20 |
| 440-192617-1 | EPA 365.3 | Total | CTMW-02D-20170920 | Orthophosphate | 21 | 20 |
| 440-192617-1 | EPA 365.3 | Total | CTMW-02D-20170920 | Orthophosphorus as PO ₄ | 21 | 20 |
| 440-192711-1 | SW-6020 | Dissolved | CTMW-03S-20170921 | Silver | 35 | 20 |
| 440-193514-2 | SW-6020 | Dissolved | CTMW-05D-20171004 | Zinc | 22 | 20 |

Table 8 FD Exceedances

| SDG | Method | Analyte | Total or Dissolved | Units | Parent Sample ID | Result* | FD Result* | RPD (%) | Difference |
|--------------|-------------|------------------------|--------------------|-------|------------------------|---------|------------|---------|------------|
| 440-159613-1 | E314.0 | Perchlorate | Total | ug/L | UFIW-04I-20160923 | 33 | 350 | 166 | --- |
| 440-159613-1 | SW6010B | Calcium | Total | mg/L | UFIW-04S-20160923 | 370 | 780 | 71 | --- |
| 440-159613-1 | SW6010B | Chromium | Total | mg/L | UFIW-04S-20160923 | 0.028 | 0.096 | 110 | --- |
| 440-164756-1 | E314.0 | Perchlorate | Total | ug/L | UFIW-08I-20161104 | 2700 | 460 | 142 | --- |
| 440-164756-1 | SM4500-S2-D | Sulfide | Dissolved | mg/L | UFIW-08I-20161104 | 4.6 | 13 | --- | 8.4 |
| 440-164756-1 | SM4500-S2-D | Sulfide | Total | mg/L | UFIW-08I-20161104 | 10 | 19 | 62 | --- |
| 440-164756-1 | SW6010B | Calcium | Total | mg/L | UFIW-08I-20161104 | 210 | 380 | 58 | --- |
| 440-180564-1 | E314.0 | Perchlorate | Total | mg/Kg | CTIW-02D-15.0-20170324 | 120 | 65 | 59 | --- |
| 440-180694-1 | E314.0 | Perchlorate | Total | mg/Kg | CTIW-03D-10.0-20170327 | 72 | 40 | 57 | --- |
| 440-180694-1 | SW6010B | Chromium | Total | mg/Kg | CTIW-03D-25.0-20170327 | 42 | 25 | 51 | --- |
| 440-181998-1 | SM4500-S2-D | Sulfide | Total | mg/L | UFIW-02S-20170412 | 1.4 | 0.58 | --- | 0.82 |
| 440-181998-1 | SW6020 | Uranium | Dissolved | ug/L | UFIW-02S-20170412 | 41 | 68 | 50 | --- |
| 440-183557-1 | E314.0 | Perchlorate | Total | ug/L | CTMW-02D-20170503 | 1100000 | 1800000 | 48 | --- |
| 440-185751-1 | E314.0 | Perchlorate | Total | mg/Kg | CTMW-05D-15.0-20170605 | 940 | 310 | 101 | --- |
| 440-190847-1 | SW6020 | Manganese | Dissolved | ug/L | CTMW-04D-20170823 | 14 | 21 | --- | 7 |
| 440-192518-1 | E365.3 | Orthophosphorus as PO4 | Total | mg/L | CTMW-06D-20170919 | 1.8 | 1.3 | 32 | --- |
| 440-192518-1 | SW6020 | Silver | Dissolved | ug/L | CTMW-06D-20170919 | 36 | 5 | --- | 31 |
| 440-193514-1 | VFA-IC | Propionic Acid | Total | mg/L | CTMW-06D-20171004 | 10 | 26 | --- | 16 |
| 440-193677-1 | SW6020 | Zinc | Dissolved | ug/L | UFMW-04D-20171005 | 30 | 3.5 | --- | 26.5 |

* For non-detects, the PQL was used.

Table 9 MS/MSD Recovery Exceedances

| SDG | Spiked Sample | Method | Total or Dissolved | Analyte | MS Recovery (%) | MSD Recovery (%) | Acceptance Range (%) |
|--------------|------------------------------|-------------------|--------------------|------------------------|-----------------|------------------|----------------------|
| 440-154551-1 | UFIW-02D-20160803 | SW-6010B | Total | Chromium | 109 | 59 | 75-125 |
| 440-154692-1 | UFIW-03S-20160804 | SW-7199 | Total | Chromium [VI] | 69 | 65 | 85-115 |
| 440-156174-1 | UFMW-05S-20160819 | SW-6010B | Total | Chromium | 112 | 130 | 75-125 |
| 440-159565-1 | UFMW-01D-20160923 | SW-6010B | Dissolved | Iron | 89 | 73 | 75-125 |
| 440-159616-1 | UFIW-03D-20160923 | EPA 300.0 | Total | Sulfate | 105 | 78 | 80-120 |
| 440-167620-1 | CTMW-03-0.5-20161130 | EPA 314.0 | N/A | Perchlorate | 136 | 112 | 80-120 |
| 440-180057-1 | CTMW-02D-0.5-20170320 (MSI) | SW-7199 | N/A | Chromium [VI] | 53 | N/A | 55-110 |
| 440-180320-1 | CTMW-04D-5.0-20170322 | EPA 300.1B | N/A | Chlorate | 28 | 22 | 75-125 |
| 440-180320-2 | CTMW-04D-40.0-20170322 | EPA 300.0-soluble | Total | Nitrate | 118 | 77 | 80-120 |
| 440-180521-1 | CTMW-02D-60.0-20170323 (MSI) | SW-7199 | N/A | Chromium [VI] | 49 | N/A | 55-110 |
| 440-180564-1 | CTIW-02D-10.0-20170324 | EPA 300.1B | N/A | Chlorate | 98 | 73 | 75-125 |
| 440-180694-1 | CTIW-02S-22.0-20170327 | SW-6020 | N/A | Antimony | 68 | 65 | 75-125 |
| 440-180694-1 | CTIW-02S-22.0-20170327 | SW-6020 | N/A | Barium | 141 | 140 | 75-125 |
| 440-181198-1 | CTIW-02S-20170403 | EPA 365.3 | Total | Orthophosphate as P | 26 | 26 | 80-120 |
| 440-181198-1 | CTIW-02S-20170403 | EPA 365.3 | Total | Orthophosphorus as PO4 | 26 | 26 | 80-120 |
| 440-181291-1 | CTMW-01S-20170404 | EPA 365.3 | Total | Orthophosphate as P | 27 | 26 | 75-125 |
| 440-181291-1 | CTMW-01S-20170404 | EPA 365.3 | Total | Orthophosphorus as PO4 | 27 | 26 | 75-125 |
| 440-181291-1 | CTMW-02D-20170404 | SW-6020 | Dissolved | Selenium | 75 | 74 | 75-125 |
| 440-181291-1 | CTMW-02D-20170404 | SW-6020 | Dissolved | Zinc | 114 | 75 | 75-125 |
| 440-181291-1 | CTMW-02D-20170404 | VFA-IC | Total | Butyric Acid | 73 | 77 | 80-120 |
| 440-181291-1 | CTMW-02D-20170404 | VFA-IC | Total | Formic Acid | 80 | 75 | 80-120 |
| 440-181291-1 | CTMW-02D-20170404 | VFA-IC | Total | Lactic Acid | 47 | 44 | 80-120 |
| 440-181291-1 | CTIW-03S-20170404 | VFA-IC | Total | Pyruvic Acid | 78 | 75 | 80-120 |
| 440-181417-1 | CTMW-02S-20170405 | SW-6020 | Dissolved | Zinc | -11 | -10 | 75-125 |
| 440-181417-1 | CTMW-03S-20170405 | VFA-IC | Total | Formic Acid | 75 | 75 | 80-120 |
| 440-181417-1 | CTMW-03S-20170405 | VFA-IC | Total | Lactic Acid | 54 | 53 | 80-120 |
| 440-181417-1 | CTMW-03S-20170405 | VFA-IC | Total | Pyruvic Acid | 66 | 64 | 80-120 |
| 440-181550-1 | CTIW-01D-20170406 | EPA 365.3 | Total | Orthophosphate as P | 26 | 33 | 75-125 |
| 440-181550-1 | CTIW-01D-20170406 | EPA 365.3 | Total | Orthophosphorus as PO4 | 26 | 33 | 75-125 |
| 440-181550-1 | CTMW-03D-20170406 | SW-6020 | Dissolved | Aluminum | 34 | 22 | 75-125 |
| 440-181550-1 | CTMW-03D-20170406 | SW-6020 | Dissolved | Zinc | 62 | 63 | 75-125 |
| 440-181739-1 | UFIW-06S-20170410 | SW-6020 | Dissolved | Copper | 73 | 72 | 75-125 |
| 440-181867-1 | UFMW-03I-20170411 | SW-6020 | Dissolved | Aluminum | 81 | 62 | 75-125 |
| 440-181999-1 | UFIW-04I-20170412 | SW-6020 | Dissolved | Manganese | 72 | 72 | 75-125 |
| 440-181999-1 | UFIW-04I-20170412 | SW-6020 | Dissolved | Selenium | 32 | 31 | 75-125 |
| 440-183557-1 | CTMW-02D-20170503-FD | VFA-IC | Total | Acetic Acid | 81 | 76 | 80-120 |
| 440-183557-1 | CTMW-02D-20170503-FD | VFA-IC | Total | Butyric Acid | 85 | 69 | 80-120 |
| 440-183557-1 | CTMW-02D-20170503-FD | VFA-IC | Total | Lactic Acid | 75 | 70 | 80-120 |
| 440-183557-1 | CTMW-02D-20170503-FD | VFA-IC | Total | Propionic Acid | 78 | 80 | 80-120 |
| 440-183688-1 | CTMW-04D-20170504 | SW-6020 | Dissolved | Selenium | 73 | 71 | 75-125 |
| 440-183688-1 | CTMW-04D-20170504 | SW-6020 | Dissolved | Zinc | 65 | 61 | 75-125 |
| 440-183689-1 | CTMW-02S-20170504 | EPA 365.3 | Total | Orthophosphate as P | 30 | 35 | 75-125 |
| 440-183689-1 | CTMW-02S-20170504 | EPA 365.3 | Total | Orthophosphorus as PO4 | 30 | 35 | 75-125 |
| 440-183810-1 | CTMW-03S-20170505 | EPA 365.3 | Total | Orthophosphate as P | 31 | 33 | 75-125 |
| 440-183810-1 | CTMW-03S-20170505 | EPA 365.3 | Total | Orthophosphorus as PO4 | 31 | 33 | 75-125 |
| 440-184556-1 | CTMW-01D-20170516 | SW-6020 | Dissolved | Cadmium | 78 | 74 | 75-125 |

Table 9 MS/MSD Recovery Exceedances

| SDG | Spiked Sample | Method | Total or Dissolved | Analyte | MS Recovery (%) | MSD Recovery (%) | Acceptance Range (%) |
|--------------|------------------------------|-------------|--------------------|-------------------------------|-----------------|------------------|----------------------|
| 440-184556-1 | CTMW-01D-20170516 | SW-6020 | Dissolved | Copper | 75 | 72 | 75-125 |
| 440-184556-1 | CTMW-01D-20170516 | SW-6020 | Dissolved | Manganese | 60 | 49 | 75-125 |
| 440-184556-1 | CTMW-01D-20170516 | SW-6020 | Dissolved | Nickel | 73 | 69 | 75-125 |
| 440-184556-1 | CTMW-01D-20170516 | SW-6020 | Dissolved | Selenium | 73 | 71 | 75-125 |
| 440-184556-1 | CTMW-01D-20170516 | SW-6020 | Dissolved | Zinc | 69 | 65 | 75-125 |
| 440-184659-1 | CTMW-02D-20170517 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-184659-1 | CTMW-03D-20170517 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-184659-1 | CTMW-03D-20170517 | EPA 365.3 | Total | Orthophosphate as P | 29 | 29 | 75-125 |
| 440-184659-1 | CTMW-03D-20170517 | EPA 365.3 | Total | Orthophosphorus as PO4 | 29 | 29 | 75-125 |
| 440-184659-1 | CTMW-03D-20170517 | EPA 365.3 | Total | Phosphorus, Total | 0 | 0 | 75-125 |
| 440-184659-1 | CTMW-03D-20170517 | SM5220D | Total | Chemical Oxygen Demand | 20 | 19 | 70-120 |
| 440-184659-1 | CTMW-03D-20170517 | SW-6020 | Dissolved | Zinc | 50 | 57 | 75-125 |
| 440-184659-1 | CTMW-03D-20170517 | VFA-IC | Total | Lactic Acid | 80 | 77 | 80-120 |
| 440-184659-1 | CTMW-03S-20170517 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-184659-1 | CTMW-04D-20170517 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-184659-1 | CTMW-04D-20170517-FD | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-184659-1 | CTMW-04S-20170517 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-185475-1 | CTMW-01D-20170531 | EPA 365.3 | Total | Orthophosphate as P | 32 | 33 | 75-125 |
| 440-185475-1 | CTMW-01D-20170531 | EPA 365.3 | Total | Orthophosphorus as PO4 | 32 | 34 | 75-125 |
| 440-185475-1 | CTMW-01D-20170531 | EPA 365.3 | Total | Phosphorus, Total | 75 | 81 | 75-125 |
| 440-185562-1 | CTMW-02D-20170601 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-185562-1 | CTMW-02D-20170601-FD | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-185562-1 | CTMW-02S-20170601 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-185562-1 | CTMW-03D-20170601 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-185562-1 | CTMW-03D-20170601 | EPA 365.3 | Total | Orthophosphate as P | 29 | 29 | 75-125 |
| 440-185562-1 | CTMW-03D-20170601 | EPA 365.3 | Total | Orthophosphorus as PO4 | 29 | 29 | 75-125 |
| 440-185562-1 | CTMW-03D-20170601 | EPA 365.3 | Total | Phosphorus, Total | 20 | 21 | 75-125 |
| 440-185562-1 | CTMW-03D-20170601 | SM5220D | Total | Chemical Oxygen Demand | 37 | 38 | 70-120 |
| 440-185562-1 | CTMW-03D-20170601 | SW-6020 | Dissolved | Arsenic | 145 | 137 | 75-125 |
| 440-185562-1 | CTMW-03D-20170601 | SW-6020 | Dissolved | Vanadium | 0 | 0 | 75-125 |
| 440-185562-1 | CTMW-03S-20170601 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-185644-1 | CTMW-04S-20170602 | EPA 365.3 | Total | Orthophosphate as P | 68 | 71 | 75-125 |
| 440-185644-1 | CTMW-04S-20170602 | EPA 365.3 | Total | Orthophosphorus as PO4 | 68 | 71 | 75-125 |
| 440-185644-1 | CTMW-04S-20170602 | EPA 365.3 | Total | Phosphorus, Total | 43 | 36 | 75-125 |
| 440-185751-1 | CTMW-05D-0.5-20170605 | EPA 314.0 | N/A | Perchlorate | 122 | 181 | 80-120 |
| 440-185751-1 | CTMW-05D-45.0-20170605 | SW-6020 | N/A | Antimony | 71 | 68 | 75-125 |
| 440-185869-1 | CTMW-06D-0.5-20170606 | EPA 300.1B | N/A | Chlorate | 32 | -32 | 75-125 |
| 440-185869-1 | CTMW-06D-25.0-20170606 (MSI) | SW-7199 | N/A | Chromium [VI] | 48 | N/A | 55-110 |
| 440-186829-1 | CTMW-01D-20170619 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-186829-1 | CTMW-01D-20170619 | EPA 365.3 | Total | Orthophosphate as P | 28 | 27 | 75-125 |
| 440-186829-1 | CTMW-01D-20170619 | EPA 365.3 | Total | Orthophosphorus as PO4 | 28 | 27 | 75-125 |
| 440-186829-1 | CTMW-01D-20170619 | EPA 365.3 | Total | Phosphorus, Total | 9 | 9 | 75-125 |
| 440-186829-1 | CTMW-01D-20170619 | SM4500-S2-D | Total | Sulfide | 0 | 0 | 70-130 |
| 440-186829-1 | CTMW-01D-20170619 | SM5220D | Total | Chemical Oxygen Demand | 0 | 0 | 70-120 |
| 440-186829-1 | CTMW-01D-20170619 | SW-6020 | Dissolved | Vanadium | 0 | 0 | 75-125 |
| 440-186829-1 | CTMW-01S-20170619 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |

Table 9 MS/MSD Recovery Exceedances

| SDG | Spiked Sample | Method | Total or Dissolved | Analyte | MS Recovery (%) | MSD Recovery (%) | Acceptance Range (%) |
|--------------|----------------------|-------------|--------------------|-------------------------------|-----------------|------------------|----------------------|
| 440-186829-1 | CTMW-02D-20170619 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-186829-1 | CTMW-02D-20170619-FD | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-186917-1 | UFMW-02D-20170620 | SW-7199 | Dissolved | Chromium [VI] | 66 | 65 | 85-115 |
| 440-187020-1 | UFMW-04D-20170621 | SM4500-S2-D | Total | Sulfide | 51 | 48 | 70-130 |
| 440-187020-1 | UFMW-05D-20170621 | EPA 300.0 | Total | Nitrate | 94 | 46 | 80-120 |
| 440-188487-1 | CTMW-06S-20170717 | EPA 314.0 | N/A | Perchlorate | -8 | -10 | 80-120 |
| 440-188538-1 | CTMW-03S-20170718 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-188538-1 | CTMW-04D-20170718 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-188538-1 | CTMW-04S-20170718 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-188538-1 | CTMW-05D-20170718 | EPA 300.0 | Total | Nitrate | 179 | 181 | 80-120 |
| 440-188538-1 | CTMW-05D-20170718 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-188538-1 | CTMW-05D-20170718 | EPA 365.3 | Total | Orthophosphate as P | 35 | 35 | 75-125 |
| 440-188538-1 | CTMW-05D-20170718 | EPA 365.3 | Total | Orthophosphorus as PO4 | 35 | 35 | 75-125 |
| 440-188538-1 | CTMW-05D-20170718 | EPA 365.3 | Total | Phosphorus, Total | 13 | 13 | 75-125 |
| 440-188538-1 | CTMW-05D-20170718 | SM4500-S2-D | Total | Sulfide | 34 | 40 | 70-130 |
| 440-188538-1 | CTMW-05D-20170718 | SM5220D | Total | Chemical Oxygen Demand | 0 | 0 | 70-120 |
| 440-188538-1 | CTMW-05D-20170718 | SW-6020 | Dissolved | Uranium | 119 | 126 | 75-125 |
| 440-188538-1 | CTMW-05D-20170718 | SW-6020 | Dissolved | Vanadium | 0 | 0 | 75-125 |
| 440-188538-1 | CTMW-05D-20170718 | VFA-IC | Total | Acetic Acid | 69 | 92 | 80-120 |
| 440-188538-1 | CTMW-05D-20170718 | VFA-IC | Total | Formic Acid | 66 | 87 | 80-120 |
| 440-188538-1 | CTMW-05D-20170718 | VFA-IC | Total | Lactic Acid | 62 | 71 | 80-120 |
| 440-188538-1 | CTMW-05D-20170718 | VFA-IC | Total | Propionic Acid | 59 | 78 | 80-120 |
| 440-188538-1 | CTMW-05D-20170718 | VFA-IC | Total | Pyruvic Acid | 70 | 68 | 80-120 |
| 440-188655-1 | CTMW-02D-20170719 | SW-6020 | Dissolved | Iron | 92 | 74 | 75-125 |
| 440-188655-1 | CTMW-02D-20170719 | SW-6020 | Dissolved | Vanadium | 0 | 0 | 75-125 |
| 440-188655-1 | CTMW-03D-20170719 | EPA 365.3 | Total | Orthophosphate as P | 21 | 27 | 75-125 |
| 440-188655-1 | CTMW-03D-20170719 | EPA 365.3 | Total | Orthophosphorus as PO4 | 21 | 27 | 75-125 |
| 440-188722-1 | CTMW-01D-20170720 | EPA 365.3 | Total | Orthophosphate as P | 23 | 21 | 75-125 |
| 440-188722-1 | CTMW-01D-20170720 | EPA 365.3 | Total | Orthophosphorus as PO4 | 23 | 21 | 75-125 |
| 440-188722-1 | CTMW-01D-20170720 | SW-6020 | Dissolved | Vanadium | 0 | 0 | 75-125 |
| 440-188722-1 | CTMW-01D-20170720 | SW-6020 | Dissolved | Zinc | 67 | 56 | 75-125 |
| 440-188722-1 | CTMW-01D-20170720 | VFA-IC | Total | Pyruvic Acid | 26 | Not Analyzed | 80-120 |
| 440-190307-1 | UFMW-06D-20170815 | EPA 314.0 | Dissolved | Perchlorate | 0.2 | 0.2 | 80-120 |
| 440-190307-1 | UFMW-06D-20170815 | SM4500-S2-D | Total | Sulfide | 57 | 58 | 70-130 |
| 440-190453-1 | UFMW-02I-20170817 | SM4500-S2-D | Total | Sulfide | 47 | 59 | 70-130 |
| 440-190752-1 | CTMW-06D-20170822 | SW-6020 | Dissolved | Vanadium | 0 | 0 | 75-125 |
| 440-190847-1 | CTMW-03S-20170823 | SW-6020 | Dissolved | Vanadium | 40 | 2 | 75-125 |
| 440-190950-1 | CTMW-01D-20170824 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-190950-1 | CTMW-01S-20170824 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-190950-1 | CTMW-02D-20170824 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-190950-1 | CTMW-02D-20170824 | EPA 365.3 | Total | Orthophosphate as P | 32 | 37 | 75-125 |
| 440-190950-1 | CTMW-02D-20170824 | EPA 365.3 | Total | Orthophosphorus as PO4 | 32 | 37 | 75-125 |
| 440-190950-1 | CTMW-02D-20170824 | SM5220D | Total | Chemical Oxygen Demand | 0 | 0 | 70-120 |
| 440-190950-1 | CTMW-02D-20170824 | SW-6020 | Dissolved | Vanadium | 0 | 0 | 75-125 |
| 440-190950-1 | CTMW-02D-20170824 | VFA-IC | Total | Pyruvic Acid | 39 | 38 | 80-120 |
| 440-192518-1 | CTMW-06D-20170919 | SM4500-S2-D | Total | Sulfide | 18 | 19 | 70-130 |

Table 9 MS/MSD Recovery Exceedances

| SDG | Spiked Sample | Method | Total or Dissolved | Analyte | MS Recovery (%) | MSD Recovery (%) | Acceptance Range (%) |
|--------------|-------------------|-------------|--------------------|-------------------------------|-----------------|------------------|----------------------|
| 440-192518-1 | CTMW-06D-20170919 | SW-6020 | Dissolved | Silver | 47 | 50 | 75-125 |
| 440-192617-1 | CTMW-02D-20170920 | EPA 365.3 | Total | Orthophosphate as P | 25 | 40 | 75-125 |
| 440-192617-1 | CTMW-02D-20170920 | EPA 365.3 | Total | Orthophosphorus as PO4 | 25 | 40 | 75-125 |
| 440-192617-1 | CTMW-02D-20170920 | SW-6020 | Dissolved | Vanadium | 0 | 0 | 75-125 |
| 440-192619-1 | CTMW-01D-20170920 | VFA-IC | Total | Pyruvic Acid | 68 | 52 | 80-120 |
| 440-192711-1 | CTMW-03D-20170921 | EPA 365.3 | Total | Orthophosphate as P | 29 | 27 | 75-125 |
| 440-192711-1 | CTMW-03D-20170921 | EPA 365.3 | Total | Orthophosphorus as PO4 | 29 | 27 | 75-125 |
| 440-192711-1 | CTMW-03S-20170921 | SW-6020 | Dissolved | Silver | 75 | 31 | 75-125 |
| 440-192711-1 | CTMW-03S-20170921 | SW-6020 | Dissolved | Vanadium | 0 | 0 | 75-125 |
| 440-192711-1 | CTMW-04S-20170921 | EPA 300.0 | Total | Sulfate | 212 | 216 | 80-120 |
| 440-193441-1 | CTMW-01D-20171003 | VFA-IC | Total | Propionic Acid | 139 | 141 | 80-120 |
| 440-193441-1 | CTMW-01D-20171003 | VFA-IC | Total | Pyruvic Acid | 66 | 61 | 80-120 |
| 440-193441-1 | CTMW-01S-20171003 | EPA 314.0 | N/A | Perchlorate | 121 | 119 | 80-120 |
| 440-193514-2 | CTMW-05D-20171004 | EPA 351.2 | Total | Total Kjeldahl Nitrogen [TKN] | 0 | 0 | 90-110 |
| 440-193514-2 | CTMW-05D-20171004 | EPA 365.3 | Total | Orthophosphate as P | 24 | 23 | 75-125 |
| 440-193514-2 | CTMW-05D-20171004 | EPA 365.3 | Total | Orthophosphorus as PO4 | 24 | 23 | 75-125 |
| 440-193514-2 | CTMW-05D-20171004 | EPA 365.3 | Total | Phosphorus, Total | 31 | 34 | 75-125 |
| 440-193514-2 | CTMW-05D-20171004 | SM4500-S2-D | Total | Sulfide | 13 | 16 | 70-130 |
| 440-193514-2 | CTMW-05D-20171004 | SM5220D | Total | Chemical Oxygen Demand | 0 | 0 | 70-120 |
| 440-193514-2 | CTMW-05D-20171004 | SW-6010B | Total | Iron | 194 | 194 | 75-125 |
| 440-193514-2 | CTMW-05D-20171004 | SW-6020 | Dissolved | Copper | 74 | 67 | 75-125 |
| 440-193514-2 | CTMW-05D-20171004 | SW-6020 | Dissolved | Zinc | 95 | 70 | 75-125 |
| 440-193514-2 | CTMW-05D-20171004 | VFA-IC | Total | Lactic Acid | 78 | 77 | 80-120 |
| 440-193514-2 | CTMW-05D-20171004 | VFA-IC | Total | Propionic Acid | 78 | 77 | 80-120 |
| 440-193514-2 | CTMW-05D-20171004 | VFA-IC | Total | Pyruvic Acid | 60 | 58 | 80-120 |
| 440-193677-1 | UFMW-06S-20171005 | SM4500-S2-D | Total | Sulfide | 46 | 45 | 70-130 |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|----------------------|-------------|----------------------|--------------------|------------|--------------|
| 440-159110-1 | UFMW-03D-20160920 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.2 days |
| 440-159117-1 | UFMW-01D-20160920 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159117-1 | UFMW-01I-20160920 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159117-1 | UFMW-01S-20160920 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159117-1 | UFMW-01S-20160920 | SM4500-S2-D | Sulfide | Total | 7 days | 7.4 days |
| 440-159117-1 | UFMW-02D-20160920 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159117-1 | UFMW-02I-20160920 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.2 days |
| 440-159117-1 | UFMW-02S-20160920 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159117-1 | UFMW-02S-20160920 | SM4500-S2-D | Sulfide | Total | 7 days | 7.4 days |
| 440-159117-1 | UFMW-03I-20160920 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159117-1 | UFMW-03I-20160920-FD | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159260-1 | UFMW-03D-20160921 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.4 days |
| 440-159262-1 | UFMW-01D-20160921 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.4 days |
| 440-159262-1 | UFMW-01I-20160921 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.4 days |
| 440-159262-1 | UFMW-01S-20160921 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.4 days |
| 440-159262-1 | UFMW-02D-20160921 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.4 days |
| 440-159262-1 | UFMW-02I-20160921 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.4 days |
| 440-159262-1 | UFMW-02S-20160921 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.3 days |
| 440-159262-1 | UFMW-03I-20160921 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.4 days |
| 440-159262-1 | UFMW-03I-20160921-FD | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.4 days |
| 440-159323-1 | UFMW-01D-20160921B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159323-1 | UFMW-01D-20160921B | SM4500-S2-D | Sulfide | Total | 7 days | 7.1 days |
| 440-159323-1 | UFMW-01D-20160921B | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 24.8 hours |
| 440-159323-1 | UFMW-01I-20160921B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159323-1 | UFMW-01I-20160921B | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 24.9 hours |
| 440-159323-1 | UFMW-01I-20160921-FD | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159323-1 | UFMW-01I-20160921-FD | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 26.2 hours |
| 440-159323-1 | UFMW-01S-20160921B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159323-1 | UFMW-02D-20160921B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159323-1 | UFMW-02D-20160921B | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 24.5 hours |
| 440-159323-1 | UFMW-02I-20160921B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159323-1 | UFMW-02I-20160921B | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 24.5 hours |
| 440-159323-1 | UFMW-03D-20160921B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159323-1 | UFMW-03D-20160921B | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 25.5 hours |
| 440-159323-1 | UFMW-03I-20160921B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159323-1 | UFMW-03I-20160921B | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 25.5 hours |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|----------------------|-------------|----------------------|--------------------|------------|--------------|
| 440-159324-1 | UFMW-02S-20160921B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159324-1 | UFMW-02S-20160921B | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 25.3 hours |
| 440-159514-1 | UFMW-01D-20160922B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159514-1 | UFMW-01I-20160922B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159514-1 | UFMW-01I-20160922-FD | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159514-1 | UFMW-01S-20160922B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159514-1 | UFMW-02I-20160922B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159514-1 | UFMW-02S-20160922B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159514-1 | UFMW-03D-20160922B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159514-1 | UFMW-03I-20160922B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159520-1 | UFMW-02D-20160922B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159565-1 | UFMW-01D-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.4 days |
| 440-159565-1 | UFMW-01D-20160923 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 78.0 hours |
| 440-159565-1 | UFMW-01S-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.4 days |
| 440-159565-1 | UFMW-02D-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.4 days |
| 440-159565-1 | UFMW-02I-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.4 days |
| 440-159565-1 | UFMW-02S-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.4 days |
| 440-159565-1 | UFMW-03D-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.4 days |
| 440-159565-1 | UFMW-03I-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.4 days |
| 440-159565-1 | UFMW-03I-20160923-FD | SM4500-S2-D | Sulfide | Total | 7 days | 7.4 days |
| 440-159565-1 | UFMW-03I-20160923-FD | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 78.5 hours |
| 440-159573-1 | UFMW-01I-20160923 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 78.8 hours |
| 440-159613-1 | UFIW-01D-20160923 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159613-1 | UFIW-01D-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFIW-01I-20160923 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159613-1 | UFIW-01I-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFIW-01S-20160923 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159613-1 | UFIW-01S-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFIW-02D-20160923 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159613-1 | UFIW-02D-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFIW-02I-20160923 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159613-1 | UFIW-02I-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.1 days |
| 440-159613-1 | UFIW-02S-20160923 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159613-1 | UFIW-02S-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFIW-03I-20160923 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159613-1 | UFIW-03I-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|----------------------|-------------|----------------------|--------------------|------------|--------------|
| 440-159613-1 | UFIW-04D-20160923 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159613-1 | UFIW-04D-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.1 days |
| 440-159613-1 | UFIW-04I-20160923 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159613-1 | UFIW-04I-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.1 days |
| 440-159613-1 | UFIW-04I-20160923-FD | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159613-1 | UFIW-04I-20160923-FD | SM4500-S2-D | Sulfide | Total | 7 days | 7.1 days |
| 440-159613-1 | UFIW-04S-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.1 days |
| 440-159613-1 | UFIW-04S-20160923-FD | SM4500-S2-D | Sulfide | Total | 7 days | 7.1 days |
| 440-159613-1 | UFMW-01D-20160923B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159613-1 | UFMW-01D-20160923B | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFMW-01I-20160923B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159613-1 | UFMW-01I-20160923B | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFMW-01S-20160923B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.0 days |
| 440-159613-1 | UFMW-01S-20160923B | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFMW-02D-20160923B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159613-1 | UFMW-02D-20160923B | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFMW-02I-20160923B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159613-1 | UFMW-02I-20160923B | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFMW-02S-20160923B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159613-1 | UFMW-02S-20160923B | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFMW-03D-20160923B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159613-1 | UFMW-03D-20160923B | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159613-1 | UFMW-03I-20160923B | SM4500-S2-D | Sulfide | Dissolved | 7 days | 7.1 days |
| 440-159613-1 | UFMW-03I-20160923B | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159616-1 | UFIW-03D-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.2 days |
| 440-159616-1 | UFIW-03S-20160923 | SM4500-S2-D | Sulfide | Total | 7 days | 7.1 days |
| 440-164756-1 | E1-1-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 24.3 hours |
| 440-164756-1 | E1-3-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 24.6 hours |
| 440-164756-1 | UFIW-05D-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 6.2 days |
| 440-164756-1 | UFIW-05I-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 6.2 days |
| 440-164756-1 | UFIW-05S-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 6.2 days |
| 440-164756-1 | UFIW-05S-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 24.2 hours |
| 440-164756-1 | UFIW-06D-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 6.2 days |
| 440-164756-1 | UFIW-06D-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 24.4 hours |
| 440-164756-1 | UFIW-06I-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 6.2 days |
| 440-164756-1 | UFIW-06I-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 25.2 hours |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|---------------------------|-------------------|--------------------------|--------------------|------------|--------------|
| 440-164756-1 | UFIW-06S-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 6.2 days |
| 440-164756-1 | UFIW-06S-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 24.4 hours |
| 440-164756-1 | UFIW-07D-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 6.2 days |
| 440-164756-1 | UFIW-07D-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 24.6 hours |
| 440-164756-1 | UFIW-07I-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 4.2 days |
| 440-164756-1 | UFIW-07I-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 25.4 hours |
| 440-164756-1 | UFIW-07S-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 4.2 days |
| 440-164756-1 | UFIW-07S-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 25.2 hours |
| 440-164756-1 | UFIW-08D-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 4.2 days |
| 440-164756-1 | UFIW-08D-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 25.6 hours |
| 440-164756-1 | UFIW-08I-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 4.2 days |
| 440-164756-1 | UFIW-08I-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 25.7 hours |
| 440-164756-1 | UFIW-08I-20161104-FD | SM4500-S2-D | Sulfide | Dissolved | 7 days | 4.2 days |
| 440-164756-1 | UFIW-08I-20161104-FD | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 25.9 hours |
| 440-164756-1 | UFMW-04I-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 24.2 hours |
| 440-164756-2 | UFIW-08-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 6.2 days |
| 440-164756-2 | UFIW-08-20161104 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 25.4 hours |
| 440-164756-2 | UFMW-05D-20161104 | SM4500-S2-D | Sulfide | Dissolved | 7 days | 4.3 days |
| 440-167511-1 | CTIW-01D-35.0-20161129-EB | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 29.9 hours |
| 440-167511-1 | CTIW-01D-GW-36.0-20161129 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 30.7 hours |
| 440-167766-1 | CTMW-03-60.0-20161201-EB | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 26.8 hours |
| 440-180320-2 | CTMW-04D-40.0-20170322 | EPA 300.0-soluble | Nitrogen, Nitrate (as N) | Total | 48 hours | 164.1 hours |
| 440-180521-2 | CTMW-02D-40.0-20170323 | EPA 300.0-soluble | Nitrogen, Nitrate (as N) | Dissolved | 48 hours | 138.4 hours |
| 440-180694-1 | CTIW-02S-22.0-20170327 | EPA 300.0-soluble | Nitrogen, Nitrate (as N) | Total | 48 hours | 54.6 hours |
| 440-180694-1 | CTIW-03S-22.0-20170327 | EPA 300.0-soluble | Nitrogen, Nitrate (as N) | Total | 48 hours | 48.5 hours |
| 440-181552-1 | UFMW-04I-20170406 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 26.1 hours |
| 440-185751-1 | CTMW-05D-0.5-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 190.6 hours |
| 440-185751-1 | CTMW-05D-10.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.0 hours |
| 440-185751-1 | CTMW-05D-15.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.1 hours |
| 440-185751-1 | CTMW-05D-15.0-20170605-FD | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.8 hours |
| 440-185751-1 | CTMW-05D-25.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.7 hours |
| 440-185751-1 | CTMW-05D-30.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.7 hours |
| 440-185751-1 | CTMW-05D-35.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.7 hours |
| 440-185751-1 | CTMW-05D-40.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.6 hours |
| 440-185751-1 | CTMW-05D-45.0-20170605 | EPA 300.0-soluble | Nitrogen, Nitrate (as N) | Total | 48 hours | 77.6 hours |
| 440-185751-1 | CTMW-05D-45.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.6 hours |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|------------------------|-------------------|-----------------------------|--------------------|------------|--------------|
| 440-185751-1 | CTMW-05D-5.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.2 hours |
| 440-185751-1 | CTMW-05D-50.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.6 hours |
| 440-185844-1 | CTMW-05D-55.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.6 hours |
| 440-185844-1 | CTMW-05D-60.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.6 hours |
| 440-185847-1 | CTMW-05D-20.0-20170605 | EPA 300.0-soluble | Nitrogen, Nitrate (as N) | Total | 48 hours | 85.1 hours |
| 440-185847-1 | CTMW-05D-20.0-20170605 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 193.4 hours |
| 440-185869-1 | CTMW-06D-30.0-20170606 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.2 hours |
| 440-185869-1 | CTMW-06D-35.0-20170606 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.3 hours |
| 440-185869-1 | CTMW-06D-40.0-20170606 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 191.3 hours |
| 440-185869-1 | CTMW-06D-43.5-20170606 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 184.6 hours |
| 440-185869-1 | CTMW-06D-45.0-20170606 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 186.5 hours |
| 440-185869-1 | CTMW-06D-50.0-20170606 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 183.7 hours |
| 440-185869-1 | CTMW-06D-55.0-20170606 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 183.8 hours |
| 440-185875-1 | CTMW-06D-60.0-20170606 | SW-7199 | Chromium, Hexavalent | Total | 24 hours | 183.9 hours |
| 440-186829-1 | CTMW-01D-20170619 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 26.8 hours |
| 440-186829-1 | CTMW-01S-20170619 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 28.4 hours |
| 440-188538-1 | CTMW-05D-20170718 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 26.0 hours |
| 440-190307-1 | UFMW-06D-20170815 | EPA 300.0 | Nitrogen, Nitrate (as N) | Total | 48 hours | 52.2 hours |
| 440-190307-1 | UFMW-06D-20170815 | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 27.4 hours |
| 440-190307-1 | UFMW-06I-20170815 | EPA 300.0 | Nitrogen, Nitrate (as N) | Total | 48 hours | 51.4 hours |
| 440-190307-1 | UFMW-06I-20170815-FD | EPA 300.0 | Nitrogen, Nitrate (as N) | Total | 48 hours | 59.4 hours |
| 440-190307-1 | UFMW-06I-20170815-FD | SW-7199 | Chromium, Hexavalent | Dissolved | 24 hours | 26.1 hours |
| 440-192518-1 | CTMW-06S-20170919 | RSK175 | Methane | Total | 7 days | 8.3 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,1,1,2-Tetrachloroethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,1,1-Trichloroethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,1,2,2-Tetrachloroethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,1,2-Trichloroethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,1-Dichloroethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,1-Dichloroethene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,1-Dichloropropene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,2,3-Trichlorobenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,2,3-Trichloropropane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,2,4-Trichlorobenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,2,4-Trimethylbenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,2-Dibromo-3-Chloropropane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,2-Dibromoethane | Total | 7 days | 10.1 days |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|-------------------|----------|-------------------------------------|--------------------|------------|--------------|
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,2-Dichlorobenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,2-Dichloroethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,2-Dichloropropane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,3,5-Trimethylbenzene (Mesitylene) | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,3-Dichlorobenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,3-Dichloropropane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 1,4-Dichlorobenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 2,2-Dichloropropane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 2-Butanone | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 2-Chlorotoluene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 2-Hexanone | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 4-Chlorotoluene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | 4-Methyl-2-Pentanone | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Acetone | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Benzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Bromobenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Bromochloromethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Bromodichloromethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Bromoform | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Bromomethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Carbon Tetrachloride | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Chlorobenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Chloroethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Chloroform | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Chloromethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | cis-1,2-Dichloroethene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | cis-1,3-Dichloropropene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Dibromochloromethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Dibromomethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Dichlorodifluoromethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Diisopropyl Ether (DIPE) | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Ethyl Tert-Butyl Ether (ETBE) | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Ethylbenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Hexachlorobutadiene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Isopropylbenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | m,p-Xylene (Sum of Isomers) | Total | 7 days | 10.1 days |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|-------------------|----------|-------------------------------|--------------------|------------|--------------|
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Methylene Chloride | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Naphthalene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | n-Butylbenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | n-Propylbenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | o-Xylene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | p-Cymene (p-Isopropyltoluene) | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | sec-Butylbenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Styrene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | tert-Amyl Methyl Ether | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | tert-Butyl Alcohol | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | tert-Butyl Methyl Ether | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | tert-Butylbenzene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Tetrachloroethene (PCE) | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Toluene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | trans-1,2-Dichloroethene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | trans-1,3-Dichloropropene | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Trichloroethene (TCE) | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Trichlorofluoromethane | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Vinyl Chloride | Total | 7 days | 10.1 days |
| 440-192518-1 | CTMW-06S-20170919 | SW-8260B | Xylenes, Total | Total | 7 days | 10.1 days |
| 440-193441-1 | CTMW-01S-20171003 | RSK175 | Methane | Total | 7 days | 10.8 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,1,1,2-Tetrachloroethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,1,1-Trichloroethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,1,2,2-Tetrachloroethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,1,2-Trichloroethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,1-Dichloroethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,1-Dichloroethene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,1-Dichloropropene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,2,3-Trichlorobenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,2,3-Trichloropropane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,2,4-Trichlorobenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,2,4-Trimethylbenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,2-Dibromo-3-Chloropropane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,2-Dibromoethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,2-Dichlorobenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,2-Dichloroethane | Total | 7 days | 14.6 days |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|-------------------|----------|-------------------------------------|--------------------|------------|--------------|
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,2-Dichloropropane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,3,5-Trimethylbenzene (Mesitylene) | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,3-Dichlorobenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,3-Dichloropropane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 1,4-Dichlorobenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 2,2-Dichloropropane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 2-Butanone | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 2-Chlorotoluene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 2-Hexanone | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 4-Chlorotoluene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | 4-Methyl-2-Pentanone | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Acetone | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Benzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Bromobenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Bromochloromethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Bromodichloromethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Bromoform | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Bromomethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Carbon Tetrachloride | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Chlorobenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Chloroethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Chloroform | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Chloromethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | cis-1,2-Dichloroethene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | cis-1,3-Dichloropropene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Dibromochloromethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Dibromomethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Dichlorodifluoromethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Diisopropyl Ether (DIPE) | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Ethyl Tert-Butyl Ether (ETBE) | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Ethylbenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Hexachlorobutadiene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Isopropylbenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | m,p-Xylene (Sum of Isomers) | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Methylene Chloride | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Naphthalene | Total | 7 days | 14.6 days |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|-------------------|----------|-------------------------------------|--------------------|------------|--------------|
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | n-Butylbenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | n-Propylbenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | o-Xylene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | p-Cymene (p-Isopropyltoluene) | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | sec-Butylbenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Styrene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | tert-Amyl Methyl Ether | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | tert-Butyl Alcohol | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | tert-Butyl Methyl Ether | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | tert-Butylbenzene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Tetrachloroethene (PCE) | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Toluene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | trans-1,2-Dichloroethene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | trans-1,3-Dichloropropene | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Trichloroethene (TCE) | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Trichlorofluoromethane | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Vinyl Chloride | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-01S-20171003 | SW-8260B | Xylenes, Total | Total | 7 days | 14.6 days |
| 440-193441-1 | CTMW-02S-20171003 | RSK175 | Methane | Total | 7 days | 10.8 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,1,1,2-Tetrachloroethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,1,1-Trichloroethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,1,2,2-Tetrachloroethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,1,2-Trichloroethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,1-Dichloroethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,1-Dichloroethene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,1-Dichloropropene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,2,3-Trichlorobenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,2,3-Trichloropropane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,2,4-Trichlorobenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,2,4-Trimethylbenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,2-Dibromo-3-Chloropropane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,2-Dibromoethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,2-Dichlorobenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,2-Dichloroethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,2-Dichloropropane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,3,5-Trimethylbenzene (Mesitylene) | Total | 7 days | 14.7 days |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|-------------------|----------|-------------------------------|--------------------|------------|--------------|
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,3-Dichlorobenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,3-Dichloropropane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 1,4-Dichlorobenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 2,2-Dichloropropane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 2-Butanone | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 2-Chlorotoluene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 2-Hexanone | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 4-Chlorotoluene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | 4-Methyl-2-Pentanone | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Acetone | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Benzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Bromobenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Bromochloromethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Bromodichloromethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Bromoform | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Bromomethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Carbon Tetrachloride | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Chlorobenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Chloroethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Chloroform | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Chloromethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | cis-1,2-Dichloroethene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | cis-1,3-Dichloropropene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Dibromochloromethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Dibromomethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Dichlorodifluoromethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Diisopropyl Ether (DIPE) | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Ethyl Tert-Butyl Ether (ETBE) | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Ethylbenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Hexachlorobutadiene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Isopropylbenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | m,p-Xylene (Sum of Isomers) | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Methylene Chloride | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Naphthalene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | n-Butylbenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | n-Propylbenzene | Total | 7 days | 14.7 days |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|-------------------|----------|-------------------------------|--------------------|------------|--------------|
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | o-Xylene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | p-Cymene (p-Isopropyltoluene) | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | sec-Butylbenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Styrene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | tert-Amyl Methyl Ether | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | tert-Butyl Alcohol | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | tert-Butyl Methyl Ether | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | tert-Butylbenzene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Tetrachloroethene (PCE) | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Toluene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | trans-1,2-Dichloroethene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | trans-1,3-Dichloropropene | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Trichloroethene (TCE) | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Trichlorofluoromethane | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Vinyl Chloride | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-02S-20171003 | SW-8260B | Xylenes, Total | Total | 7 days | 14.7 days |
| 440-193441-1 | CTMW-04S-20171003 | RSK175 | Methane | Total | 7 days | 10.8 days |
| 440-193441-1 | CTMW-02S-20171003 | SM5310B | Total Organic Carbon | Total | 4 hours | 67.2 hours |
| 440-193441-1 | CTMW-01D-20171003 | SM5310B | Total Organic Carbon | Total | 4 hours | 66.7 hours |
| 440-193441-1 | CTMW-04S-20171003 | SM5310B | Total Organic Carbon | Total | 4 hours | 80.0 hours |
| 440-193441-1 | CTMW-01S-20171003 | SM5310B | Total Organic Carbon | Total | 4 hours | 78.1 hours |
| 440-193508-1 | CTMW-06S-20171004 | RSK175 | Methane | Total | 7 days | 12.3 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,1,1,2-Tetrachloroethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,1,1-Trichloroethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,1,2,2-Tetrachloroethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,1,2-Trichloroethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,1-Dichloroethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,1-Dichloroethene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,1-Dichloropropene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,2,3-Trichlorobenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,2,3-Trichloropropane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,2,4-Trichlorobenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,2,4-Trimethylbenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,2-Dibromo-3-Chloropropane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,2-Dibromoethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,2-Dichlorobenzene | Total | 7 days | 13.1 days |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|-------------------|----------|-------------------------------------|--------------------|------------|--------------|
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,2-Dichloroethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,2-Dichloropropane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,3,5-Trimethylbenzene (Mesitylene) | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,3-Dichlorobenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,3-Dichloropropane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 1,4-Dichlorobenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 2,2-Dichloropropane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 2-Butanone | Total | 7 days | 13.6 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 2-Chlorotoluene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 2-Hexanone | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 4-Chlorotoluene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | 4-Methyl-2-Pentanone | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Acetone | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Benzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Bromobenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Bromochloromethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Bromodichloromethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Bromoform | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Bromomethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Carbon Tetrachloride | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Chlorobenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Chloroethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Chloroform | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Chloromethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | cis-1,2-Dichloroethene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | cis-1,3-Dichloropropene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Dibromochloromethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Dibromomethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Dichlorodifluoromethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Diisopropyl Ether (DIPE) | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Ethyl Tert-Butyl Ether (ETBE) | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Ethylbenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Hexachlorobutadiene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Isopropylbenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | m,p-Xylene (Sum of Isomers) | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Methylene Chloride | Total | 7 days | 13.1 days |

Table 10 Holding Time Exceedances

| SDG | Sample ID | Method | Analyte | Total or Dissolved | Time Limit | Time Elapsed |
|--------------|-------------------|----------|-------------------------------|--------------------|------------|--------------|
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Naphthalene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | n-Butylbenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | n-Propylbenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | o-Xylene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | p-Cymene (p-Isopropyltoluene) | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | sec-Butylbenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Styrene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | tert-Amyl Methyl Ether | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | tert-Butyl Alcohol | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | tert-Butyl Methyl Ether | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | tert-Butylbenzene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Tetrachloroethene (PCE) | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Toluene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | trans-1,2-Dichloroethene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | trans-1,3-Dichloropropene | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Trichloroethene (TCE) | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Trichlorofluoromethane | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Vinyl Chloride | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SW-8260B | Xylenes, Total | Total | 7 days | 13.1 days |
| 440-193508-1 | CTMW-06S-20171004 | SM5310B | Total Organic Carbon | Total | 4 hours | 105.3 hours |

Table 11 Sample Preservation Infractions

| SDG | Sample ID | Method | Analyte | Sample pH | Limit |
|--------------|-------------------|---------------|-----------------------|------------------|--------------|
| 440-193441-1 | CTMW-01D-20171003 | SM5310B | Carbon, Total Organic | pH > 2 | pH < 2 |
| 440-193441-1 | CTMW-01S-20171003 | SM5310B | Carbon, Total Organic | pH > 2 | pH < 2 |
| 440-193441-1 | CTMW-02S-20171003 | SM5310B | Carbon, Total Organic | pH > 2 | pH < 2 |
| 440-193441-1 | CTMW-04S-20171003 | SM5310B | Carbon, Total Organic | pH > 2 | pH < 2 |
| 440-193508-1 | CTMW-06S-20171004 | SM5310B | Carbon, Total Organic | pH > 2 | pH < 2 |

Table 12 Method Blank Detections

| SDG | SampleID | Method | Parameter | Result | Units | Associated Samples |
|--------------|---------------------|--------------|-----------|--------|-------|--|
| 440-159110-1 | MB 440-358091/1-A | SW-6010B | Calcium | 0.069 | mg/L | UFMW-03D-20160920 |
| 440-159117-1 | MB 440-358091/1-A | SW-6010B | Calcium | 0.069 | mg/L | UFMW-01D-20160920, UFMW-01I-20160920, UFMW-02D-20160920, UFMW-02I-20160920, UFMW-03I-20160920, UFMW-03I-20160920-FD |
| 440-159323-1 | MB 440-358929/1-A | SW-6010B | Calcium | 0.062 | mg/L | UFMW-01D-20160921B, UFMW-01I-20160921-FD, UFMW-01I-20160921B, UFMW-01S-20160921B, UFMW-02D-20160921B, UFMW-02I-20160921B, UFMW-03D-20160921B, UFMW-03I-20160921B |
| 440-159324-1 | MB 440-358929/1-A | SW-6010B | Calcium | 0.062 | mg/L | UFMW-02S-20160921B |
| 440-159573-1 | MB 440-358929/1-A | SW-6010B | Calcium | 0.062 | mg/L | UFMW-01I-20160923 |
| 440-164756-1 | MB440-369874/1-A | SW-6010B | Iron | 0.01 | mg/L | UFIW-06I-20161104, UFIW-07S-20161104, UFIW-08D-20161104 |
| 440-180320-2 | MB440-398943/1-B | SW-6010B | Calcium | 1.06 | mg/L | CTMW-04D-40.0-20170322 |
| 440-180320-2 | MB440-398943/1-B | SW-6010B | Magnesium | 1.06 | mg/L | CTMW-04D-40.0-20170322 |
| 440-180320-2 | MB440-398943/1-B | SW-6010B_LCH | Magnesium | 0.165 | mg/L | CTMW-04D-40.0-20170322 |
| 440-180320-2 | MB440-398943/1-B | SW-6010B_LCH | Calcium | 1.06 | mg/L | CTMW-04D-40.0-20170322 |
| 440-180521-2 | MB440-397035/1-A^20 | SW-6020 | Copper | 1.16 | mg/Kg | CTMW-02D-40.0-20170323 |
| 440-180521-2 | MB440-397035/1-A^20 | SW-6020 | Silver | 1.16 | mg/Kg | CTMW-02D-40.0-20170323 |
| 440-180521-2 | MB440-398943/1-B | SW-6010B | Calcium | 1.06 | mg/L | CTMW-02D-40.0-20170323 |
| 440-180521-2 | MB440-398943/1-B | SW-6010B | Magnesium | 1.06 | mg/L | CTMW-02D-40.0-20170323 |
| 440-180521-2 | MB440-398943/1-B | SW-6010B_LCH | Magnesium | 0.165 | mg/L | CTMW-02D-40.0-20170323 |
| 440-180521-2 | MB440-398943/1-B | SW-6010B_LCH | Calcium | 1.06 | mg/L | CTMW-02D-40.0-20170323 |
| 440-180694-1 | MB440-398943/1-B | SW-6010B | Calcium | 1.06 | mg/L | CTIW-03D-41.5-20170327, CTIW-03S-22.0-20170327 |
| 440-180694-1 | MB440-398943/1-B | SW-6010B | Magnesium | 1.06 | mg/L | CTIW-03D-41.5-20170327, CTIW-03S-22.0-20170327 |
| 440-180694-1 | MB440-398943/1-B | SW-6010B_LCH | Magnesium | 0.165 | mg/L | CTIW-03D-41.5-20170327, CTIW-03S-22.0-20170327 |
| 440-180694-1 | MB440-398943/1-B | SW-6010B_LCH | Calcium | 1.06 | mg/L | CTIW-03D-41.5-20170327, CTIW-03S-22.0-20170327 |
| 440-180694-1 | MB440-400280/1-B | SW-6010B_LCH | Magnesium | 0.115 | mg/L | CTIW-02S-22.0-20170327 |
| 440-180694-1 | MB440-400280/1-B | SW-6010B_LCH | Calcium | 0.53 | mg/L | CTIW-02S-22.0-20170327 |
| 440-181291-1 | MB440-400562/1-B | SW-6020 | Manganese | 0.523 | ug/L | CTIW-03D-20170404, CTIW-03S-20170404, CTMW-02D-20170404, CTMW-02D-20170404-FD |
| 440-181291-1 | MB440-400562/1-B | SW-6020 | Chromium | 47.1 | ug/L | CTIW-03D-20170404, CTIW-03S-20170404, CTMW-02D-20170404, CTMW-02D-20170404-FD |
| 440-181291-1 | MB440-400562/1-B | SW-6020 | Iron | 47.1 | ug/L | CTIW-03S-20170404 |
| 440-181291-1 | MB440-401058/1-C | SW-6020 | Manganese | 0.57 | ug/L | CTIW-02D-20170404, CTMW-01S-20170404 |
| 440-181291-1 | MB440-401058/1-C | SW-6020 | Chromium | 0.671 | ug/L | CTIW-02D-20170404, CTMW-01S-20170404 |
| 440-181417-1 | MB440-400754/1-B | SW-6020 | Iron | 18.6 | ug/L | CTMW-02S-20170405 |
| 440-181550-1 | MB440-401058/1-C | SW-6020 | Manganese | 0.57 | ug/L | CTIW-01D-20170406, CTMW-03D-20170406 |
| 440-181550-1 | MB440-401058/1-C | SW-6020 | Chromium | 0.671 | ug/L | CTIW-01D-20170406, CTMW-03D-20170406 |
| 440-181550-1 | MB440-401058/1-C | SW-6020 | Aluminum | 6.23 | ug/L | CTMW-03D-20170406 |
| 440-181742-1 | MB440-403140/1-B | SW-6020 | Manganese | 0.535 | ug/L | UFIW-08S-20170410 |
| 440-181867-1 | MB440-401785/1-A | SW-6020 | Aluminum | 8.09 | ug/L | UFMW-03I-20170411 |

Table 12 Method Blank Detections

| SDG | SampleID | Method | Parameter | Result | Units | Associated Samples |
|--------------|------------------|--------------|--------------------------------------|--------|-------|--|
| 440-183810-1 | MB440-406431/1-C | SW-6020 | Aluminum | 6.98 | ug/L | CTMW-03S-20170505 |
| 440-184556-1 | MB440-406805/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-01S-20170516 |
| 440-184556-1 | MB440-406805/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-01S-20170516 |
| 440-185475-1 | MB440-410209/4 | SW-8260B | Dichloromethane [Methylene chloride] | 2.95 | ug/L | CTMW-01S-20170531 |
| 440-185562-1 | MB440-410504/4 | SW-8260B | Dichloromethane [Methylene chloride] | 0.993 | ug/L | CTMW-02S-20170601 |
| 440-185751-1 | MB440-410959/1-B | SW-6010B_LCH | Calcium | 0.603 | mg/L | CTMW-05D-45.0-20170605 |
| 440-185847-1 | MB440-410959/1-B | SW-6010B_LCH | Calcium | 0.603 | mg/L | CTMW-05D-20.0-20170605 |
| 440-185869-1 | MB440-410959/1-B | SW-6010B_LCH | Calcium | 0.603 | mg/L | CTMW-06D-20.0-20170606, CTMW-06D-43.5-20170606 |
| 440-186829-1 | MB440-414298/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-01S-20170619 |
| 440-186829-1 | MB440-414298/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-01S-20170619 |
| 440-186829-1 | MB440-414755/1-B | SW-6020 | Iron | 9.04 | ug/L | CTMW-01S-20170619 |
| 440-186901-1 | MB440-414755/1-B | SW-6020 | Zinc | 5.83 | ug/L | CTMW-04S-20170620 |
| 440-186901-1 | MB440-414755/1-B | SW-6020 | Iron | 9.04 | ug/L | CTMW-04S-20170620 |
| 440-186906-1 | MB440-414298/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-02S-20170620 |
| 440-186906-1 | MB440-414298/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-02S-20170620 |
| 440-186906-1 | MB440-414755/1-B | SW-6020 | Iron | 9.04 | ug/L | CTMW-02S-20170620 |
| 440-187017-1 | MB440-414298/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-06S-20170621 |
| 440-187017-1 | MB440-414298/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-06S-20170621 |
| 440-187017-1 | MB440-414955/1-B | SW-6020 | Aluminum | 6.95 | ug/L | CTMW-06S-20170621 |
| 440-187101-1 | MB440-415389/1-C | SW-6020 | Zinc | 11 | ug/L | CTMW-06D-20170622 |
| 440-187101-1 | MB440-415389/1-C | SW-6020 | Iron | 8.55 | ug/L | CTMW-06D-20170622 |
| 440-188487-1 | MB440-418047/2 | SM2320B | Alkalinity as CaCO3 | 30 | mg/L | CTMW-06S-20170717 |
| 440-188487-1 | MB440-418047/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 30 | mg/L | CTMW-06S-20170717 |
| 440-188655-1 | MB440-419954/1-B | SW-6020 | Iron | 34.1 | ug/L | CTMW-02S-20170719 |
| 440-188655-1 | MB440-420257/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-02S-20170719 |
| 440-188655-1 | MB440-420257/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-02S-20170719 |
| 440-188722-1 | MB440-420402/1-B | SW-6020 | Nickel | 1.06 | ug/L | CTMW-01D-20170720, CTMW-01D-20170720-FD |
| 440-188722-1 | MB440-420402/1-B | SW-6020 | Zinc | 5.35 | ug/L | CTMW-01D-20170720 |
| 440-188726-1 | MB440-420257/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-01S-20170720 |
| 440-188726-1 | MB440-420257/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-01S-20170720 |
| 440-188726-1 | MB440-420402/1-B | SW-6020 | Nickel | 1.06 | ug/L | CTMW-01S-20170720 |
| 440-188726-1 | MB440-420402/1-B | SW-6020 | Zinc | 5.35 | ug/L | CTMW-01S-20170720 |
| 440-188726-1 | MB440-420402/1-B | SW-6020 | Aluminum | 7.39 | ug/L | CTMW-01S-20170720 |
| 440-190752-1 | MB440-426878/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-06S-20170822 |
| 440-190752-1 | MB440-426878/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-06S-20170822 |
| 440-190847-1 | MB440-426878/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-04S-20170823 |
| 440-190847-1 | MB440-426878/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-04S-20170823 |
| 440-190950-1 | MB440-426878/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-01S-20170824 |
| 440-190950-1 | MB440-426878/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-01S-20170824 |
| 440-190950-1 | MB440-427288/1-C | SW-6020 | Iron | 12.7 | ug/L | CTMW-01S-20170824 |

Table 12 Method Blank Detections

| SDG | SampleID | Method | Parameter | Result | Units | Associated Samples |
|--------------|-------------------|---------|------------------------------------|--------|-------|---|
| 440-192518-1 | MB 440-431005/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-06S-20170919 |
| 440-192518-1 | MB 440-431005/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-06S-20170919 |
| 440-192518-1 | MB 440-431977/1-B | SW-6020 | Silver | 0.895 | ug/L | CTMW-06D-20170919 |
| 440-192518-1 | MB 440-431977/1-B | SW-6020 | Iron | 14.4 | ug/L | CTMW-06S-20170919 |
| 440-192617-1 | MB440-431977/1-C | SW-6020 | Iron | 8.99 | ug/L | CTMW-02D-20170920 |
| 440-192619-1 | MB 440-431005/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-01S-20170920, CTMW-02S-20170920 |
| 440-192619-1 | MB 440-431005/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-01S-20170920, CTMW-02S-20170920 |
| 440-192619-1 | MB440-431977/1-C | SW-6020 | Iron | 8.99 | ug/L | CTMW-01D-20170920, CTMW-01S-20170920, CTMW-02S-20170920, CTMW-04D-20170920 |
| 440-192711-1 | MB440-431977/1-D | SW-6020 | Iron | 10.3 | ug/L | CTMW-04S-20170921 |
| 440-192711-1 | MB440-431977/1-D | SW-6020 | Aluminum | 5.38 | ug/L | CTMW-04S-20170921 |
| 440-193441-1 | MB 440-435573/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-01S-20171003, CTMW-02S-20171003 |
| 440-193441-1 | MB 440-435573/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-01S-20171003, CTMW-02S-20171003 |
| 440-193508-1 | MB 440-435573/2 | SM2320B | Alkalinity as CaCO3 | 10 | mg/L | CTMW-06S-20171004 |
| 440-193508-1 | MB 440-435573/2 | SM2320B | Alkalinity, Bicarbonate [As CaCO3] | 10 | mg/L | CTMW-06S-20171004 |
| 440-193677-1 | MB440-434134/1-B | SW-6020 | Chromium | 1.71 | ug/L | UFMW-04D-20171005, UFMW-04D-20171005-FD, UFMW-04I-20171005, UFMW-04S-20171005, UFMW-05S-20171005, UFMW-06S-20171005 |
| 440-193677-1 | MB440-434134/1-B | SW-6020 | Nickel | 1.92 | ug/L | UFMW-04D-20171005, UFMW-04D-20171005-FD, UFMW-04I-20171005, UFMW-04S-20171005, UFMW-05S-20171005, UFMW-06S-20171005 |
| 440-193677-1 | MB440-434134/1-B | SW-6020 | Aluminum | 9.92 | ug/L | UFMW-04I-20171005, UFMW-04S-20171005, UFMW-05S-20171005 |
| 440-193776-1 | MB440-434134/1-B | SW-6020 | Chromium | 1.71 | ug/L | UFMW-01I-20171006, UFMW-02D-20171006, UFMW-02I-20171006, UFMW-03D-20171006, UFMW-03I-20171006 |
| 440-193776-1 | MB440-434134/1-B | SW-6020 | Nickel | 1.92 | ug/L | UFMW-01I-20171006, UFMW-02D-20171006, UFMW-02I-20171006, UFMW-03D-20171006, UFMW-03I-20171006 |
| 440-193776-1 | MB440-434134/1-B | SW-6020 | Aluminum | 9.92 | ug/L | UFMW-01I-20171006, UFMW-02I-20171006, UFMW-03D-20171006 |

Table 13 Equipment Blank, Field Blank, and Trip Blank Detections

| SampleID | Blank Type | Sample Date | Method | Total or Dissolved | Analyte | LQ | Result | Units | SDG | Associated Samples |
|---------------------------|------------|-------------|-----------|--------------------|--------------------------------------|----|--------|-------|--------------|--|
| UFIW-01I-2016802-EB | EB | 8/2/16 | EPA 314.0 | N | Perchlorate | | 3.3 | ug/L | 440-154356-1 | UFIW-01I-2016802 |
| UFIW-02I-20160803-EB | EB | 8/3/16 | EPA 314.0 | N | Perchlorate | | 2.6 | ug/L | 440-154557-1 | UFIW-02I-20160803 |
| UFIW-02I-20160803-EB | EB | 8/3/16 | SW-6010B | N | Chromium | J | 0.0036 | mg/L | 440-154557-1 | UFIW-02I-20160803 |
| UFMW-03I-20160808-EB | EB | 8/8/16 | EPA 314.0 | N | Perchlorate | | 39 | ug/L | 440-154930-1 | UFMW-03I-20160808 |
| UFMW-01I-20160809-EB | EB | 8/9/16 | EPA 314.0 | N | Perchlorate | | 5.9 | ug/L | 440-154960-1 | UFMW-01D-20160809, UFMW-01I-20160809, UFMW-01I-20160809-FD |
| UFMW-02I-20160810-EB | EB | 8/10/16 | EPA 314.0 | N | Perchlorate | | 65 | ug/L | 440-155247-1 | UFMW-02I-20160810 |
| UFIW-05D-20160815-FB | FB | 8/15/16 | EPA 314.0 | N | Perchlorate | | 3.5 | ug/L | 440-155688-1 | UFIW-06D-20160815 |
| UFIW-06D-20160815-EB | EB | 8/15/16 | EPA 314.0 | N | Perchlorate | | 5.5 | ug/L | 440-155688-1 | UFIW-06D-20160815 |
| UFIW-06I-20160816-FB | FB | 8/16/16 | EPA 314.0 | N | Perchlorate | | 2.0 | ug/L | 440-155766-1 | UFIW-07D-20160816 |
| UFIW-07D-20160816-EB | EB | 8/16/16 | EPA 314.0 | N | Perchlorate | | 2.4 | ug/L | 440-155766-1 | UFIW-07D-20160816 |
| UFIW-07I-20160817-FB | FB | 8/17/16 | EPA 314.0 | N | Perchlorate | | 6.0 | ug/L | 440-155966-1 | UFIW-08I-20160817 |
| UFIW-08I-20160817-EB | EB | 8/17/16 | EPA 314.0 | N | Perchlorate | J | 0.83 | ug/L | 440-155966-1 | UFIW-08I-20160817 |
| UFMW-04I-20160818-EB | EB | 8/18/16 | EPA 314.0 | N | Perchlorate | | 5.0 | ug/L | 440-156076-1 | UFMW-04I-20160818, UFMW-04I-20160818-FD |
| CTIW-01D-35.0-20161129-EB | EB | 11/29/16 | SW-7199 | N | Chromium [VI] | JH | 0.27 | ug/L | 440-167511-1 | CTIW-01D-25.0-20161129, CTIW-01D-25.0-20161129-FD, CTIW-01D-30.0-20161129, CTIW-01D-35.0-20161129, CTIW-01D-40.0-20161129, CTIW-01D-45.0-20161129, CTIW-01D-50.0-20161129, CTIW-01D-55.0-20161129, CTIW-01D-60.0-20161129, CTIW-01D-GW-36.0-20161129 |
| 20170126-FB | FB | 1/26/17 | EPA 314.0 | N | Perchlorate | J | 0.58 | ug/L | 440-174831-1 | E2-1-20170126, E2-3-20170126, E2-4-20170126, E2-5-20170126, E2-5-20170126-DUP, UFIW-01S-20170126, UFIW-02S-20170126, UFIW-03S-20170126, UFIW-04S-20170126, UFMW-01S-20170126, UFMW-02S-20170126 |
| E2-2-20170126-EB | EB | 1/26/17 | EPA 314.0 | N | Perchlorate | | 3.4 | ug/L | 440-174831-1 | E2-1-20170126, E2-3-20170126, E2-4-20170126, E2-5-20170126, E2-5-20170126-DUP, UFIW-01S-20170126, UFIW-02S-20170126, UFIW-03S-20170126, UFIW-04S-20170126, UFMW-01S-20170126, UFMW-02S-20170126 |
| CTIW-03D-0.5-20170320-EB | EB | 3/20/17 | SW-7199 | N | Chromium [VI] | J | 0.25 | ug/L | 440-180057-1 | CTIW-03D-0.5-20170320, CTMW-02D-0.5-20170320, CTMW-04D-0.5-20170320 |
| CTMW-02D-20170517-TB | TB | 5/17/17 | SW-8260B | N | Dichloromethane [Methylene chloride] | J | 1.8 | ug/L | 440-184659-1 | CTMW-02D-20170517, CTMW-03D-20170517, CTMW-03S-20170517 |
| TRIPBLANK1706010830 | TB | 6/1/17 | SW-8260B | N | Chloroform | J | 0.29 | ug/L | 440-185562-1 | CTMW-02D-20170601, CTMW-02D-20170601-FD, CTMW-02S-20170601, CTMW-03D-20170601, CTMW-03S-20170601 |

Table 14 Completeness Summary

| Method | Total Number of Validated Results | Number of Rejected Results | Percent Completeness |
|-------------------|-----------------------------------|----------------------------|----------------------|
| EPA 300.0 | 611 | 0 | 100.0% |
| EPA 300.0-soluble | 27 | 0 | 100.0% |
| EPA 300.1B | 590 | 0 | 100.0% |
| EPA 314.0 | 533 | 0 | 100.0% |
| EPA 351.2 | 108 | 21 | 80.6% |
| EPA 365.3 | 324 | 8 | 97.5% |
| RSK175 | 108 | 0 | 100.0% |
| SM2320B | 432 | 0 | 100.0% |
| SM2320B-soluble | 9 | 0 | 100.0% |
| SM2340C | 108 | 0 | 100.0% |
| SM2540C | 191 | 0 | 100.0% |
| SM2540C-soluble | 9 | 0 | 100.0% |
| SM4500-S2-D | 385 | 13 | 96.6% |
| SM5220D | 93 | 8 | 91.4% |
| SM5310B | 108 | 0 | 100.0% |
| SW-6010B | 902 | 0 | 100.0% |
| SW-6010B-soluble | 36 | 0 | 100.0% |
| SW-6020 | 3032 | 10 | 99.7% |
| SW-7199 | 516 | 0 | 100.0% |
| SW-7471A | 9 | 0 | 100.0% |
| SW-8260B | 9177 | 261 | 97.2% |
| SW-9045C-soluble | 9 | 0 | 100.0% |
| SW-9060 | 9 | 0 | 100.0% |
| VFA-IC | 660 | 0 | 100.0% |

Appendix H.1

Automated Data Review Tables

Data Qualifier Summary

Lab Reporting Batch ID: 440-154192-1

Laboratory: TA IRV

EDD Filename: 440-154192-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-154252-1

Laboratory: TA IRV

EDD Filename: 440-154252-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-154356-1

Laboratory: TA IRV

EDD Filename: 440-154356-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-154551-1

Laboratory: TA IRV

EDD Filename: 440-154551-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID: UFIW-02D-20160803 Collected: 8/3/2016 9:36:00 AM Analysis Type: RES Dilution: 5000
0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 2100000 | | 25000 | MDL | 50000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: UFIW-02D-20160803 Collected: 8/3/2016 9:36:00 AM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 0.025 | F1 F2 | 0.0025 | MDL | 0.0050 | MRL | mg/L | J- | m, ld |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-154551-1

Laboratory: TA IRV

EDD Filename: 440-154551-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| f | Matrix Spike Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-154557-1

Laboratory: TA IRV

EDD Filename: 440-154557-1

eQAPP Name: TetraTechInc_NERT_10172017

| | |
|--------------------------------|-------------------|
| Method Category: METALS | |
| Method: 6010B | Matrix: AQ |

Sample ID: UFIW-02I-20160803-EB

Collected: 8/3/2016 3:12:00 PM Analysis Type: RES/TOT

Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 0.0036 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-154557-1

Laboratory: TA IRV

EDD Filename: 440-154557-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-154654-1

Laboratory: TA IRV

EDD Filename: 440-154654-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-154692-1

Laboratory: TA IRV

EDD Filename: 440-154692-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFIW-03S-20160804

Collected: 8/4/2016 2:50:00 PM Analysis Type: RES/DIS

Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.25 | U F1 | 0.25 | MDL | 2.0 | MRL | ug/L | UJ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-154692-1

Laboratory: TA IRV

EDD Filename: 440-154692-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Lower Estimation |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-154772-1

Laboratory: TA IRV

EDD Filename: 440-154772-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-154850-1

Laboratory: TA IRV

EDD Filename: 440-154850-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-154930-1

Laboratory: TA IRV

EDD Filename: 440-154930-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-154960-1

Laboratory: TA IRV

EDD Filename: 440-154960-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-155089-1

Laboratory: TA IRV

EDD Filename: 440-155089-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-155247-1

Laboratory: TA IRV

EDD Filename: 440-155247-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-155249-1

Laboratory: TA IRV

EDD Filename: 440-155249-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID: UFMW-02D-20160810
 Collected: 8/10/2016 9:20:00 AM
 Analysis Type: RES
 Dilution: 5000 / 0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 2900000 | | 25000 | MDL | 50000 | MRL | ug/L | J- | m |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-155249-1

Laboratory: TA IRV

EDD Filename: 440-155249-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|------------------------------|
| m | Matrix Spike Lower Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-155363-1

Laboratory: TA IRV

EDD Filename: 440-155363-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-155628-1

Laboratory: TA IRV

EDD Filename: 440-155628-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-155688-1

Laboratory: TA IRV

EDD Filename: 440-155688-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

| Sample ID: UFIW-05D-20160815-FB | Collected: PM | 8/15/2016 3:33:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|--|----------------------|-------------------|---------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 3.5 | | 0.50 | MDL | 1.0 | MRL | ug/L | J+ | be |

| Sample ID: UIFW-06D-20160815 | Collected: PM | 8/15/2016 3:15:00 | Analysis Type: RES | Dilution: 5000 0 | | | | | |
|-------------------------------------|----------------------|-------------------|---------------------------|----------------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 2600000 | | 25000 | MDL | 50000 | MRL | ug/L | J- | m |

| Sample ID: UIFW-06D-20160815-EB | Collected: PM | 8/15/2016 3:37:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|--|----------------------|-------------------|---------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 5.5 | | 0.50 | MDL | 1.0 | MRL | ug/L | J+ | bf |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-155688-1

Laboratory: TA IRV

EDD Filename: 440-155688-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| be | Equipment Blank Contamination |
| bf | Field Blank Contamination |
| bk | Field Blank Contamination |
| m | Matrix Spike Lower Rejection |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-155759-1

Laboratory: TA IRV

EDD Filename: 440-155759-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID: UFIW-06I-20160816
 Collected: 8/16/2016 8:50:00 AM
 Analysis Type: RES
 Dilution: 1000/0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| PERCHLORATE | 290000 | | 5000 | MDL | 10000 | MRL | ug/L | J- | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-155759-1

Laboratory: TA IRV

EDD Filename: 440-155759-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Lower Estimation |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-155761-1

Laboratory: TA IRV

EDD Filename: 440-155761-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-155766-1

Laboratory: TA IRV

EDD Filename: 440-155766-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID: UFIW-06I-20160816-FB
 Collected: 8/16/2016 3:20:00 PM
 Analysis Type: RES
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| PERCHLORATE | 2.0 | | 0.50 | MDL | 1.0 | MRL | ug/L | J+ | be |

Sample ID: UFIW-07D-20160816-EB
 Collected: 8/16/2016 3:25:00 PM
 Analysis Type: RES
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| PERCHLORATE | 2.4 | | 0.50 | MDL | 1.0 | MRL | ug/L | J+ | bf |

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 440-155766-1

Laboratory: TA IRV

EDD Filename: 440-155766-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| be | Equipment Blank Contamination |
| bf | Field Blank Contamination |
| bk | Field Blank Contamination |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-155923-1

Laboratory: TA IRV

EDD Filename: 440-155923-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-155966-1

Laboratory: TA IRV

EDD Filename: 440-155966-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID: UFIW-08I-20160817-EB
 Collected: 8/17/2016 2:50:00 PM
 Analysis Type: RES
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| PERCHLORATE | 0.83 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J+ | bf |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-155966-1

Laboratory: TA IRV

EDD Filename: 440-155966-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| bf | Field Blank Contamination |
| bk | Field Blank Contamination |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-156054-1

Laboratory: TA IRV

EDD Filename: 440-156054-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-156076-1

Laboratory: TA IRV

EDD Filename: 440-156076-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-156173-1

Laboratory: TA IRV

EDD Filename: 440-156173-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID: UFMW-06S-20160819
 Collected: 8/19/2016 2:10:00 PM
 Analysis Type: RES
 Dilution: 1000 / 0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| PERCHLORATE | 730000 | F1 | 5000 | MDL | 10000 | MRL | ug/L | J | m, m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-156173-1

Laboratory: TA IRV

EDD Filename: 440-156173-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Upper Estimation |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-156174-1

Laboratory: TA IRV

EDD Filename: 440-156174-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

8/19/2016 3:00:00
Sample ID: UFIW-05S-20160819-FB **Collected:** PM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| PERCHLORATE | 0.89 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J+ | be |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

8/19/2016 1:30:00
Sample ID: UFIW-05S-20160819 **Collected:** PM **Analysis Type:** RES/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 0.0032 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

8/19/2016 2:40:00
Sample ID: UFMW-05S-20160819 **Collected:** PM **Analysis Type:** RES/TOT **Dilution:** 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|-------|---------|-------|------------------|-------------|
| CHROMIUM | 0.16 | F1 | 0.0050 | MDL | 0.010 | MRL | mg/L | J+ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

8/19/2016 1:30:00
Sample ID: UFIW-05S-20160819 **Collected:** PM **Analysis Type:** RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.65 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-156174-1

Laboratory: TA IRV

EDD Filename: 440-156174-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| be | Equipment Blank Contamination |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-156251-1

Laboratory: TA IRV

EDD Filename: 440-156251-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-156258-1

Laboratory: TA IRV

EDD Filename: 440-156258-1

eQAPP Name: TetraTechInc_NERT_10172017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-156318-1

Laboratory: TA IRV

EDD Filename: 440-156318-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID: E2-1-20160823
8/23/2016 10:30:00
Collected: AM
Analysis Type: RES
Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 440000 | | 5000 | MDL | 10000 | MRL | ug/L | J+ | m |

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 440-156318-1

Laboratory: TA IRV

EDD Filename: 440-156318-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Upper Estimation |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159110-1

Laboratory: TA IRV

EDD Filename: 440-159110-1

eQAPP Name: TetraTechInc_NERT_06262017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-159117-1

Laboratory: TA IRV

EDD Filename: 440-159117-1

eQAPP Name: TetraTechInc_NERT_06262017

| | |
|--------------------------------|-------------------|
| Method Category: METALS | |
| Method: 6010B | Matrix: AQ |

Sample ID: UFMW-01S-20160920 Collected: 9/20/2016 11:17:00 AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| IRON | 0.033 | J | 0.010 | MDL | 0.040 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

8/7/2017 6:27:55 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159117-1

Laboratory: TA IRV

EDD Filename: 440-159117-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| bl | Method Blank Contamination |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159260-1

Laboratory: TA IRV

EDD Filename: 440-159260-1

eQAPP Name: TetraTechInc_NERT_06262017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-159262-1

Laboratory: TA IRV

EDD Filename: 440-159262-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFMW-02S-20160921
9/21/2016 9:03:00
Collected: AM
Analysis Type: RES/DIS
Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| Chromium, hexavalent | 1.5 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159262-1

Laboratory: TA IRV

EDD Filename: 440-159262-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159323-1

Laboratory: TA IRV

EDD Filename: 440-159323-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

| Sample ID: UFMW-01D-20160921 | Collected: PM | 9/21/2016 2:15:00 | Analysis Type: RES | Dilution: 250 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|----------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 14000 | | 2500 | MDL | 5000 | MRL | ug/L | J- | m |

| Sample ID: UFMW-01I-20160921 | Collected: PM | 9/21/2016 1:55:00 | Analysis Type: RES | Dilution: 500 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|----------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 12000 | | 5000 | MDL | 10000 | MRL | ug/L | J | fd |

| Sample ID: UFMW-01I-20160921-FD | Collected: PM | 9/21/2016 1:55:00 | Analysis Type: RES | Dilution: 500 | | | | | |
|--|----------------------|--------------------------|---------------------------|----------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 18000 | | 5000 | MDL | 10000 | MRL | ug/L | J | fd |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

| Sample ID: UFMW-01S-20160921 | Collected: PM | 9/21/2016 3:15:00 | Analysis Type: RES | Dilution: 1000 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|-----------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 750000 | F1 | 5000 | MDL | 10000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: UFMW-01D-20160921 | Collected: PM | 9/21/2016 2:15:00 | Analysis Type: RES/TOT | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CALCIUM | 380 | B | 0.050 | MDL | 0.10 | MRL | mg/L | J | m, m |

| Sample ID: UFMW-02I-20160921 | Collected: PM | 9/21/2016 2:45:00 | Analysis Type: RES/DIS | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 0.028 | J | 0.010 | MDL | 0.040 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-159323-1

Laboratory: TA IRV

EDD Filename: 440-159323-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

| Sample ID: UFMW-01D-20160921 | Collected: 9/21/2016 2:15:00 PM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 22 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

| Sample ID: UFMW-01I-20160921 | Collected: 9/21/2016 1:55:00 PM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 24 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

| Sample ID: UFMW-01I-20160921-FD | Collected: 9/21/2016 1:55:00 PM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|--|--|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 23 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

| Sample ID: UFMW-01S-20160921 | Collected: 9/21/2016 3:15:00 PM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 1.1 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

| Sample ID: UFMW-02D-20160921 | Collected: 9/21/2016 2:58:00 PM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 25 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

| Sample ID: UFMW-02I-20160921 | Collected: 9/21/2016 2:45:00 PM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 25 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

| Sample ID: UFMW-03D-20160921 | Collected: 9/21/2016 2:21:00 PM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 38 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

| Sample ID: UFMW-03I-20160921 | Collected: 9/21/2016 2:10:00 PM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 19 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-159323-1

Laboratory: TA IRV

EDD Filename: 440-159323-1

eQAPP Name: TetraTechInc_NERT_06262017

Method Category: METALS

Method: 7199

Matrix: AQ

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159323-1

Laboratory: TA IRV

EDD Filename: 440-159323-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| bl | Method Blank Contamination |
| e | Sampling to Analysis Estimation |
| fd | Field Duplicate Precision |
| h | Sampling to Analysis Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159324-1

Laboratory: TA IRV

EDD Filename: 440-159324-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: UFMW-02S-20160921
 Collected: 9/21/2016 3:00:00 PM
 Analysis Type: RES/DIS
 Dilution: 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| IRON | 0.030 | J | 0.020 | MDL | 0.080 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFMW-02S-20160921
 Collected: 9/21/2016 3:00:00 PM
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 1.9 | J H | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp, h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159324-1

Laboratory: TA IRV

EDD Filename: 440-159324-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| bl | Method Blank Contamination |
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159419-1

Laboratory: TA IRV

EDD Filename: 440-159419-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

Sample ID: UFMW-02D-20160922 Collected: 9/22/2016 9:45:00 AM Analysis Type: RES Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-------|---------|-------|------------------|-------------|
| Chlorate | 17000 | | 5000 | MDL | 10000 | MRL | ug/L | J+ | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID: UFMW-02D-20160922 Collected: 9/22/2016 9:45:00 AM Analysis Type: RES Dilution: 5000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 2200000 | | 25000 | MDL | 50000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: UFMW-02I-20160922 Collected: 9/22/2016 8:40:00 AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| IRON | 0.021 | J | 0.010 | MDL | 0.040 | MRL | mg/L | J | sp, fd |

Sample ID: UFMW-02I-20160922-FD Collected: 9/22/2016 8:40:00 AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| IRON | 0.010 | U | 0.010 | MDL | 0.040 | MRL | mg/L | UJ | fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-159419-1

Laboratory: TA IRV

EDD Filename: 440-159419-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| fd | Field Duplicate Precision |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159420-1

Laboratory: TA IRV

EDD Filename: 440-159420-1

eQAPP Name: TetraTechInc_NERT_06262017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-159514-1

Laboratory: TA IRV

EDD Filename: 440-159514-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | | | | | | | | | |
|-------------------------|--------|--|--|-------------------|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6010B | | | Matrix: AQ | | | | | | |

| Sample ID: UFMW-01D-20160922 | | Collected: PM | | | 9/22/2016 2:03:00 | | | Analysis Type: RES/DIS | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-------|---------|--------------------------|---------|-------|-------------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| IRON | 0.013 | J | 0.010 | MDL | 0.040 | MRL | mg/L | J | sp | | |

| Sample ID: UFMW-02S-20160922 | | Collected: PM | | | 9/22/2016 3:35:00 | | | Analysis Type: RES/DIS | | Dilution: 2 | |
|-------------------------------------|------------|----------------------|-------|---------|--------------------------|---------|-------|-------------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| IRON | 0.072 | J | 0.020 | MDL | 0.080 | MRL | mg/L | J | sp | | |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159514-1

Laboratory: TA IRV

EDD Filename: 440-159514-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159520-1

Laboratory: TA IRV

EDD Filename: 440-159520-1

eQAPP Name: TetraTechInc_NERT_06262017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-159565-1

Laboratory: TA IRV

EDD Filename: 440-159565-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

Sample ID: UFMW-01D-20160923 Collected: 9/23/2016 9:00:00 AM Analysis Type: RES Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-------|---------|-------|------------------|-------------|
| Chlorate | 15000 | | 5000 | MDL | 10000 | MRL | ug/L | J | m, m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID: UFMW-01D-20160923 Collected: 9/23/2016 9:00:00 AM Analysis Type: RES Dilution: 5000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 1200000 | | 25000 | MDL | 50000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: UFMW-01D-20160923 Collected: 9/23/2016 9:00:00 AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| IRON | 0.010 | U F1 | 0.010 | MDL | 0.040 | MRL | mg/L | UJ | m |

Sample ID: UFMW-01D-20160923 Collected: 9/23/2016 9:00:00 AM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-------|---------|------|---------|-------|------------------|-------------|
| CALCIUM | 360 | | 0.050 | MDL | 0.10 | MRL | mg/L | J- | m, m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFMW-01D-20160923 Collected: 9/23/2016 9:00:00 AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 28 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

Sample ID: UFMW-03I-20160923-FD Collected: 9/23/2016 8:45:00 AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 19 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-159565-1

Laboratory: TA IRV

EDD Filename: 440-159565-1

eQAPP Name: TetraTechInc_NERT_06262017

Method Category: METALS

Method: 7199

Matrix: AQ

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159565-1

Laboratory: TA IRV

EDD Filename: 440-159565-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|--------------------------------|
| bl | Method Blank Contamination |
| h | Sampling to Analysis Rejection |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159573-1

Laboratory: TA IRV

EDD Filename: 440-159573-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFMW-011-20160923
 Collected: 9/23/2016 8:00:00 AM
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| Chromium, hexavalent | 25 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159573-1

Laboratory: TA IRV

EDD Filename: 440-159573-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|--------------------------------|
| bl | Method Blank Contamination |
| h | Sampling to Analysis Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159613-1

Laboratory: TA IRV

EDD Filename: 440-159613-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

| Sample ID: UFIW-04I-20160923 | Collected: 9/23/2016 4:06:00 PM | Analysis Type: RES | Dilution: 1 | | | | | | |
|-------------------------------------|--|---------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 33 | | 0.50 | MDL | 1.0 | MRL | ug/L | J | fd |

| Sample ID: UFIW-04I-20160923-FD | Collected: 9/23/2016 4:06:00 PM | Analysis Type: RES | Dilution: 10 | | | | | | |
|--|--|---------------------------|---------------------|---------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 350 | | 5.0 | MDL | 10 | MRL | ug/L | J | fd |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: UFIW-04D-20160923 | Collected: 9/23/2016 3:58:00 PM | Analysis Type: RES/TOT | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CALCIUM | 220 | | 0.050 | MDL | 0.10 | MRL | mg/L | J+ | m |
| CHROMIUM | 0.0043 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

| Sample ID: UFIW-04I-20160923 | Collected: 9/23/2016 4:06:00 PM | Analysis Type: RES/TOT | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 0.0025 | U | 0.0025 | MDL | 0.0050 | MRL | mg/L | UJ | fd |

| Sample ID: UFIW-04I-20160923-FD | Collected: 9/23/2016 4:06:00 PM | Analysis Type: RES/TOT | Dilution: 1 | | | | | | |
|--|--|-------------------------------|--------------------|---------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 0.0071 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | fd |

| Sample ID: UFIW-04S-20160923 | Collected: 9/23/2016 4:15:00 PM | Analysis Type: RES/TOT | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CALCIUM | 370 | | 0.050 | MDL | 0.10 | MRL | mg/L | J | fd |
| CHROMIUM | 0.028 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

8/7/2017 6:15:08 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159613-1

Laboratory: TA IRV

EDD Filename: 440-159613-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: UFIW-04S-20160923-FD | Collected: PM | 9/23/2016 4:15:00 | Analysis Type: RE2/TOT | Dilution: 2 | | | | | |
|--|----------------------|-------------------|-------------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CALCIUM | 780 | | 0.10 | MDL | 0.20 | MRL | mg/L | J | fd |

| Sample ID: UFIW-04S-20160923-FD | Collected: PM | 9/23/2016 4:15:00 | Analysis Type: RES/TOT | Dilution: 1 | | | | | |
|--|----------------------|-------------------|-------------------------------|--------------------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 0.096 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | fd |

| Sample ID: UFMW-01S-20160923 | Collected: PM | 9/23/2016 3:05:00 | Analysis Type: RES/TOT | Dilution: 2 | | | | | |
|-------------------------------------|----------------------|-------------------|-------------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 0.0086 | J | 0.0050 | MDL | 0.010 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

| Sample ID: UFIW-03I-20160923 | Collected: PM | 9/23/2016 3:40:00 | Analysis Type: RES/DIS | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|-------------------|-------------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 0.33 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159613-1

Laboratory: TA IRV

EDD Filename: 440-159613-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| fd | Field Duplicate Precision |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-159616-1

Laboratory: TA IRV

EDD Filename: 440-159616-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

9/23/2016 2:50:00

Sample ID: UFIW-03D-20160923 Collected: PM Analysis Type: RES Dilution: 200

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| Nitrate as N | 66 | F2 | 11 | MDL | 22 | MRL | mg/L | J | Id |

9/23/2016 2:50:00

Sample ID: UFIW-03D-20160923 Collected: PM Analysis Type: RES2 Dilution: 200

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|----|---------|-----|---------|-------|------------------|-------------|
| SULFATE | 1100 | F1 | 50 | MDL | 100 | MRL | mg/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

9/23/2016 2:50:00

Sample ID: UFIW-03D-20160923 Collected: PM Analysis Type: RES/TOT Dilution: 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|-------|---------|-------|------------------|-------------|
| CHROMIUM | 0.0071 | J | 0.0050 | MDL | 0.010 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-159616-1

Laboratory: TA IRV

EDD Filename: 440-159616-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| f | Matrix Spike Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-164756-1

Laboratory: TA IRV

EDD Filename: 440-164756-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

11/4/2016 2:45:00

Sample ID: UFIW-071-20161104 Collected: PM Analysis Type: RES2 Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| SULFATE | 210 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

11/4/2016 2:30:00

Sample ID: E1-3-20161104 Collected: PM Analysis Type: RES Dilution: 5000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 2400000 | | 25000 | MDL | 50000 | MRL | ug/L | J- | m |

11/4/2016 3:00:00

Sample ID: UFIW-081-20161104 Collected: PM Analysis Type: RES Dilution: 100

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|----|---------|-----|---------|-------|------------------|-------------|
| PERCHLORATE | 2700 | | 50 | MDL | 100 | MRL | ug/L | J | fd |

11/4/2016 3:00:00

Sample ID: UFIW-081-20161104-FD Collected: PM Analysis Type: RES Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| PERCHLORATE | 460 | | 2.5 | MDL | 5.0 | MRL | ug/L | J | fd |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

11/4/2016 2:55:00

Sample ID: UFIW-08D-20161104 Collected: PM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.034 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |

11/4/2016 3:00:00

Sample ID: UFIW-081-20161104 Collected: PM Analysis Type: RES Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Total Sulfide | 10 | | 0.40 | MDL | 1.0 | MRL | mg/L | J | fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

11/7/2017 9:48:41 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-164756-1

Laboratory: TA IRV

EDD Filename: 440-164756-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

| Sample ID: UFIW-08I-20161104 | Collected: 11/4/2016 3:00:00 PM | Analysis Type: RES/DIS | Dilution: 20 | | | | | | |
|-------------------------------------|--|-------------------------------|---------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Sulfide, Dissolved | 4.6 | HF | 0.40 | MDL | 1.0 | MRL | mg/L | J | fd |

| Sample ID: UFIW-08I-20161104-FD | Collected: 11/4/2016 3:00:00 PM | Analysis Type: RES | Dilution: 20 | | | | | | |
|--|--|---------------------------|---------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 19 | | 0.40 | MDL | 1.0 | MRL | mg/L | J | fd |

| Sample ID: UFIW-08I-20161104-FD | Collected: 11/4/2016 3:00:00 PM | Analysis Type: RES/DIS | Dilution: 20 | | | | | | |
|--|--|-------------------------------|---------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Sulfide, Dissolved | 13 | HF | 0.40 | MDL | 1.0 | MRL | mg/L | J | fd |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: UFIW-05I-20161104 | Collected: 11/4/2016 2:15:00 PM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 0.024 | J | 0.010 | MDL | 0.040 | MRL | mg/L | J | sp |

| Sample ID: UFIW-06I-20161104 | Collected: 11/4/2016 2:35:00 PM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 0.015 | J B | 0.010 | MDL | 0.040 | MRL | mg/L | J+ | bl |

| Sample ID: UFIW-07S-20161104 | Collected: 11/4/2016 2:45:00 PM | Analysis Type: RES/DIS | Dilution: 5 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 0.052 | J B | 0.050 | MDL | 0.20 | MRL | mg/L | J | sp |

| Sample ID: UFIW-07S-20161104 | Collected: 11/4/2016 2:45:00 PM | Analysis Type: RES/TOT | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 0.0041 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-164756-1

Laboratory: TA IRV

EDD Filename: 440-164756-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: UFIW-08D-20161104 | | Collected: PM | | | Analysis Type: RES/TOT | | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|--------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 11/4/2016 2:55:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 0.0043 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

| Sample ID: UFIW-08I-20161104 | | Collected: PM | | | Analysis Type: RES/TOT | | | Dilution: 2 | |
|-------------------------------------|------------|----------------------|--------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 11/4/2016 3:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CALCIUM | 210 | | 0.10 | MDL | 0.20 | MRL | mg/L | J | fd |
| CHROMIUM | 0.0050 | U | 0.0050 | MDL | 0.010 | MRL | mg/L | UJ | fd |

| Sample ID: UFIW-08I-20161104-FD | | Collected: PM | | | Analysis Type: RES/TOT | | | Dilution: 2 | |
|--|------------|----------------------|--------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 11/4/2016 3:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CALCIUM | 380 | | 0.10 | MDL | 0.20 | MRL | mg/L | J | fd |
| CHROMIUM | 0.0093 | J | 0.0050 | MDL | 0.010 | MRL | mg/L | J | sp, fd |

| Sample ID: UFMW-06S-20161104 | | Collected: PM | | | Analysis Type: RES/TOT | | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 11/4/2016 1:35:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CALCIUM | 310 | | 0.050 | MDL | 0.10 | MRL | mg/L | J+ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

| Sample ID: E1-1-20161104 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 1 | |
|---------------------------------|------------|----------------------|------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 11/4/2016 2:10:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 24 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

| Sample ID: E1-3-20161104 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 1 | |
|---------------------------------|------------|----------------------|------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 11/4/2016 2:30:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 73 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-164756-1

Laboratory: TA IRV

EDD Filename: 440-164756-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

| Sample ID: UFIW-05S-20161104 | | Collected: 11/4/2016 2:30:00 PM | | Analysis Type: RES/DIS | | | | Dilution: 10 | |
|-------------------------------------|------------|--|------|-------------------------------|------|---------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 2.5 | U H | 2.5 | MDL | 20 | MRL | ug/L | UJ | h |
| Sample ID: UFIW-06D-20161104 | | Collected: 11/4/2016 2:40:00 PM | | Analysis Type: RES/DIS | | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 3.2 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |
| Sample ID: UFIW-06I-20161104 | | Collected: 11/4/2016 2:35:00 PM | | Analysis Type: RES/DIS | | | | Dilution: 5 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 1.3 | U H | 1.3 | MDL | 10 | MRL | ug/L | UJ | h |
| Sample ID: UFIW-06S-20161104 | | Collected: 11/4/2016 2:30:00 PM | | Analysis Type: RES/DIS | | | | Dilution: 1000 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 250 | U H | 250 | MDL | 2000 | MRL | ug/L | UJ | h |
| Sample ID: UFIW-07D-20161104 | | Collected: 11/4/2016 2:45:00 PM | | Analysis Type: RES/DIS | | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 16 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |
| Sample ID: UFIW-07I-20161104 | | Collected: 11/4/2016 2:45:00 PM | | Analysis Type: RES/DIS | | | | Dilution: 5 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 1.3 | U H | 1.3 | MDL | 10 | MRL | ug/L | UJ | h |
| Sample ID: UFIW-07S-20161104 | | Collected: 11/4/2016 2:45:00 PM | | Analysis Type: RES/DIS | | | | Dilution: 5 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 1.3 | U H | 1.3 | MDL | 10 | MRL | ug/L | UJ | h |
| Sample ID: UFIW-08D-20161104 | | Collected: 11/4/2016 2:55:00 PM | | Analysis Type: RES/DIS | | | | Dilution: 5 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 1.3 | U H | 1.3 | MDL | 10 | MRL | ug/L | UJ | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-164756-1

Laboratory: TA IRV

EDD Filename: 440-164756-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 7199 | Matrix: | | AQ | | | | | | |

| Sample ID: UFIW-08I-20161104 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 1000 | | | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|-----------------------|-------------|--|--|
| | | 11/4/2016 3:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Chromium, hexavalent | 250 | U H | 250 | MDL | 2000 | MRL | ug/L | UJ | h | | |

| Sample ID: UFIW-08I-20161104-FD | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 100 | | | |
|--|------------|----------------------|----|---------|-------------------------------|---------|-------|----------------------|-------------|--|--|
| | | 11/4/2016 3:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Chromium, hexavalent | 25 | U H | 25 | MDL | 200 | MRL | ug/L | UJ | h | | |

| Sample ID: UFMW-04I-20161104 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 1 | | | |
|-------------------------------------|------------|----------------------|------|---------|-------------------------------|---------|-------|--------------------|-------------|--|--|
| | | 11/4/2016 2:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Chromium, hexavalent | 36 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h | | |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-164756-1

Laboratory: TA IRV

EDD Filename: 440-164756-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| bl | Method Blank Contamination |
| e | Sampling to Analysis Estimation |
| fd | Field Duplicate Precision |
| h | Sampling to Analysis Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

11/7/2017 9:48:41 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-164756-2

Laboratory: TA IRV

EDD Filename: 440-164756-2

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFIW-08-20161104 **Collected:** PM **11/4/2016 2:55:00** **Analysis Type:** RES/DIS **Dilution:** 100

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| Chromium, hexavalent | 25 | U H | 25 | MDL | 200 | MRL | ug/L | UJ | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

11/7/2017 9:49:53 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-164756-2

Laboratory: TA IRV

EDD Filename: 440-164756-2

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| bl | Method Blank Contamination |
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

11/7/2017 9:49:53 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-167308-1

Laboratory: TA IRV

EDD Filename: 440-167308-1

eQAPP Name: TetraTechInc_NERT_06262017

| | |
|--------------------------------|-------------------|
| Method Category: METALS | |
| Method: 7199 | Matrix: SO |

Sample ID: CTIW-01D-0.5-20161128 Collected: AM 11/28/2016 9:45:00 Analysis Type: RES Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.19 | J | 0.17 | MDL | 0.34 | MRL | mg/ g | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

10/6/2017 12:14:14 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-167308-1

Laboratory: TA IRV

EDD Filename: 440-167308-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-167511-1

Laboratory: TA IRV

EDD Filename: 440-167511-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: CTIW-01DGW36.020161129 Collected: PM 11/29/2016 12:25:00 Analysis Type: RES/TOT Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| CHROMIUM | 12 | | 0.013 | MDL | 0.025 | MRL | mg/L | J+ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: CTIW-01D-35.0-20161129-EB Collected: PM 11/29/2016 1:00:00 Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.27 | J H | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp, h |

Sample ID: CTIW-01DGW36.020161129 Collected: PM 11/29/2016 12:25:00 Analysis Type: RES/DIS Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|-----|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 13000 | H | 250 | MDL | 2000 | MRL | ug/L | J- | h |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-167511-1

Laboratory: TA IRV

EDD Filename: 440-167511-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-167620-1

Laboratory: TA IRV

EDD Filename: 440-167620-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: SO |

Sample ID: CTMW-03-0.5-20161130
 Collected: AM
 11/30/2016 8:20:00
 Analysis Type: RES/DIS
 Dilution: 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 0.70 | F1 | 0.020 | MDL | 0.084 | MRL | mg/ g | J+ | m |

Sample ID: CTMW-03-5.0-20161130
 Collected: AM
 11/30/2016 11:00:00
 Analysis Type: RES/DIS
 Dilution: 2000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 1800 | | 21 | MDL | 89 | MRL | mg/ g | J+ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: CTMW-03-GW36.020161130
 Collected: PM
 11/30/2016 3:35:00
 Analysis Type: RES/TOT
 Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| CHROMIUM | 17 | | 0.013 | MDL | 0.025 | MRL | mg/L | J+ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-167620-1

Laboratory: TA IRV

EDD Filename: 440-167620-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Upper Estimation |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-167620-2

Laboratory: TA IRV

EDD Filename: 440-167620-2

eQAPP Name: TetraTechInc_NERT_06262017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-167766-1

Laboratory: TA IRV

EDD Filename: 440-167766-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: SO |

12/1/2016 8:40:00

Sample ID: CTMW-03-55.0-20161201 Collected: AM Analysis Type: RES/DIS Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 430 | | 6.3 | MDL | 26 | MRL | mg/ g | J+ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

12/1/2016 9:25:00

Sample ID: CTMW-03-60.0-20161201-EB Collected: AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.25 | U H | 0.25 | MDL | 2.0 | MRL | ug/L | UJ | h |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

12/1/2016 8:40:00

Sample ID: CTMW-03-55.0-20161201 Collected: AM Analysis Type: RES Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 9.2 | F2 | 0.20 | MDL | 0.39 | MRL | mg/ g | J | ld |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-167766-1

Laboratory: TA IRV

EDD Filename: 440-167766-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| e | Sampling to Analysis Estimation |
| f | Matrix Spike Precision |
| h | Sampling to Analysis Estimation |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Upper Estimation |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-167766-2

Laboratory: TA IRV

EDD Filename: 440-167766-2

eQAPP Name: TetraTechInc_NERT_06262017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-167766-3

Laboratory: TA IRV

EDD Filename: 440-167766-3

eQAPP Name: TetraTechInc_NERT_11102017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

12/1/2016 12:00:00
Sample ID:IDW-CT-20161201-Comp **Collected:**PM **Analysis Type:**RES/DIS **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 700000 | | 56000 | MDL | 230000 | MRL | ug/ g | J- | s |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

12/1/2016 12:00:00
Sample ID:IDW-CT-20161201-Comp **Collected:**PM **Analysis Type:**RES **Dilution:** 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 1.4 | | 0.17 | MDL | 0.34 | MRL | mg/ g | J- | h |

| | | |
|-------------------------|-----------|-------------------|
| Method Category: | SVOA | |
| Method: | 8015B DRO | Matrix: SO |

12/1/2016 12:00:00
Sample ID:IDW-CT-20161201-Comp **Collected:**PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| DRO (C13-C22) | 3.5 | J | 2.8 | MDL | 5.6 | MRL | mg/ g | J | sp |

| | | |
|-------------------------|-------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B | Matrix: SO |

12/1/2016 12:00:00
Sample ID:IDW-CT-20161201-Comp **Collected:**PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| ACETONE | 12 | J | 9.0 | MDL | 22 | MRL | ug/ g | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-167766-3

Laboratory: TA IRV

EDD Filename: 440-167766-3

eQAPP Name: TetraTechInc_NERT_11102017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| s | Surrogate/Tracer Recovery Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-168362-1

Laboratory: TA IRV

EDD Filename: 440-168362-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: CTIW-01D-GW-20161206
Collected: 12/6/2016 12:00:00 PM
Analysis Type: RES/TOT
Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| CHROMIUM | 20 | | 0.013 | MDL | 0.025 | MRL | mg/L | J- | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-168362-1

Laboratory: TA IRV

EDD Filename: 440-168362-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|------------------------------|
| m | Matrix Spike Lower Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-168532-1

Laboratory: TA IRV

EDD Filename: 440-168532-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | | | | | | | | |
|-------------------------|---------|----------------|--|----|--|--|--|--|--|
| Method Category: | GENCHEM | | | | | | | | |
| Method: | 300.1B | Matrix: | | AQ | | | | | |

Sample ID: CTMW-03D-GW-20161207 Collected: 12/7/2016 11:10:00 AM Analysis Type: RES Dilution: 1000/0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 3700000 | | 100000 | MDL | 200000 | MRL | ug/L | J+ | m |

| | | | | | | | | | |
|-------------------------|---------|----------------|--|----|--|--|--|--|--|
| Method Category: | GENCHEM | | | | | | | | |
| Method: | 314.0 | Matrix: | | AQ | | | | | |

Sample ID: CTMW-03D-GW-20161207 Collected: 12/7/2016 11:10:00 AM Analysis Type: RES Dilution: 5000/0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 790000 | | 25000 | MDL | 50000 | MRL | ug/L | J- | m, m |

| | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | |
| Method: | 6010B | Matrix: | | AQ | | | | | |

Sample ID: CTMW-03D-GW-20161207 Collected: 12/7/2016 11:10:00 AM Analysis Type: RES/TOT Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| CHROMIUM | 17 | | 0.013 | MDL | 0.025 | MRL | mg/L | J+ | m |

| | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | |
| Method: | 7199 | Matrix: | | AQ | | | | | |

Sample ID: CTMW-03D-GW-20161207 Collected: 12/7/2016 11:10:00 AM Analysis Type: RES/DIS Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|-----|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 16000 | | 250 | MDL | 2000 | MRL | ug/L | J- | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-168532-1

Laboratory: TA IRV

EDD Filename: 440-168532-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-174831-1

Laboratory: TA IRV

EDD Filename: 440-174831-1

eQAPP Name: TetraTechInc_NERT_11302016

| | | | | | | | | | | |
|-------------------------|---------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | GENCHEM | | | | | | | | | |
| Method: | 314.0 | Matrix: | | AQ | | | | | | |

| Sample ID: 20170126-FB | Collected: PM | | | 1/26/2017 2:50:00 | | | | Analysis Type: RES | | Dilution: 1 |
|-------------------------------|----------------------|----------|------|--------------------------|-----|---------|-------|---------------------------|-------------|--------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| PERCHLORATE | 0.58 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J+ | be | |

| Sample ID: E2-1-20170126 | Collected: PM | | | 1/26/2017 12:00:00 | | | | Analysis Type: RES | | Dilution: 1000 |
|---------------------------------|----------------------|----------|------|---------------------------|-------|---------|-------|---------------------------|-------------|-----------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| PERCHLORATE | 430000 | | 5000 | MDL | 10000 | MRL | ug/L | J+ | m | |

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 7199 | Matrix: | | AQ | | | | | | |

| Sample ID: UFMW-02S-20170126 | Collected: AM | | | 1/26/2017 11:53:00 | | | | Analysis Type: RES/DIS | | Dilution: 1 |
|-------------------------------------|----------------------|----------|------|---------------------------|-----|---------|-------|-------------------------------|-------------|--------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| Chromium, hexavalent | 0.43 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp | |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-174831-1

Laboratory: TA IRV

EDD Filename: 440-174831-1

eQAPP Name: TetraTechInc_NERT_11302016

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| be | Equipment Blank Contamination |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-174981-1

Laboratory: TA IRV

EDD Filename: 440-174981-1

eQAPP Name: TetraTechInc_NERT_11302016

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-174984-1

Laboratory: TA IRV

EDD Filename: 440-174984-1

eQAPP Name: TetraTechInc_NERT_11302016

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFMW-05S-20170127
 Collected: 1/27/2017 2:40:00 PM
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| Chromium, hexavalent | 1.0 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

2/7/2017 3:02:48 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-174984-1

Laboratory: TA IRV

EDD Filename: 440-174984-1

eQAPP Name: TetraTechInc_NERT_11302016

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180057-1

Laboratory: TA IRV

EDD Filename: 440-180057-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

3/20/2017 8:20:00
Sample ID: CTMW-01D-0.5-20170320 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|----|---------|-----|---------|-------|------------------|-------------|
| Chlorate | 200 | J | 56 | MDL | 220 | MRL | ug/ g | J | sp |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: SO |

3/20/2017 8:20:00
Sample ID: CTMW-01D-0.5-20170320 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| PERCHLORATE | 6.7 | | 0.11 | MDL | 0.45 | MRL | mg/ g | J- | m, m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

3/20/2017 1:50:00
Sample ID: CTIW-03D-0.5-20170320-EB **Collected:** PM **Analysis Type:** RES/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.25 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

3/20/2017 10:35:00
Sample ID: CTMW-02D-0.5-20170320 **Collected:** AM **Analysis Type:** RES **Dilution:** 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.24 | J F1 | 0.17 | MDL | 0.34 | MRL | mg/ g | J- | sp, m |

3/20/2017 1:55:00
Sample ID: CTMW-04D-0.5-20170320 **Collected:** PM **Analysis Type:** RES **Dilution:** 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.22 | J | 0.16 | MDL | 0.33 | MRL | mg/ g | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-180057-1

Laboratory: TA IRV

EDD Filename: 440-180057-1

eQAPP Name: TetraTechInc_NERT_04052017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/6/2017 1:53:43 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180166-1

Laboratory: TA IRV

EDD Filename: 440-180166-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

| Sample ID: CTMW-01D-20.0-20170321 | | Collected: AM | | 3/21/2017 8:50:00 | | | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|-------------|-----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Chlorate | 2300000 | | 66000 | MDL | 260000 | MRL | ug/ g | J- | s | | |

| Sample ID: CTMW-01D-25.0-20170321 | | Collected: AM | | 3/21/2017 9:10:00 | | | | Analysis Type: RES/DIS | | Dilution: 500 | |
|--|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|-------------|----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Chlorate | 1100000 | | 41000 | MDL | 170000 | MRL | ug/ g | J- | s | | |

| Sample ID: CTMW-01D-30.0-20170321 | | Collected: AM | | 3/21/2017 9:20:00 | | | | Analysis Type: RES/DIS | | Dilution: 500 | |
|--|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|-------------|----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Chlorate | 2200000 | | 39000 | MDL | 150000 | MRL | ug/ g | J- | s | | |

| Sample ID: CTMW-01D-35.0-20170321 | | Collected: AM | | 3/21/2017 9:35:00 | | | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|-------------|-----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Chlorate | 2200000 | | 79000 | MDL | 320000 | MRL | ug/ g | J- | s | | |

| Sample ID: CTMW-01D-40.0-20170321 | | Collected: AM | | 3/21/2017 9:55:00 | | | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|-------------|-----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Chlorate | 2600000 | | 69000 | MDL | 280000 | MRL | ug/ g | J- | s | | |

| Sample ID: CTMW-01D-45.0-20170321 | | Collected: AM | | 3/21/2017 10:15:00 | | | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|---------------------------|--------|---------|-------|-------------------------------|-------------|-----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Chlorate | 2700000 | | 76000 | MDL | 310000 | MRL | ug/ g | J- | s | | |

| Sample ID: CTMW-01D-50.0-20170321 | | Collected: AM | | 3/21/2017 10:25:00 | | | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|---------------------------|--------|---------|-------|-------------------------------|-------------|-----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Chlorate | 3100000 | | 74000 | MDL | 300000 | MRL | ug/ g | J- | s | | |

| Sample ID: CTMW-01D-55.0-20170321 | | Collected: AM | | 3/21/2017 10:50:00 | | | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|---------------------------|--------|---------|-------|-------------------------------|-------------|-----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Chlorate | 3000000 | | 79000 | MDL | 320000 | MRL | ug/ g | J- | s | | |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-180166-1

Laboratory: TA IRV

EDD Filename: 440-180166-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

| Sample ID: CTMW-01D-55.0-20170321-FD | Collected: AM | 3/21/2017 10:51:00 | Analysis Type: RES/DIS | Dilution: 1000 | | | | | |
|---|----------------------|--------------------|-------------------------------|-----------------------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 2800000 | | 71000 | MDL | 290000 | MRL | ug/ g | J- | s |

| Sample ID: CTMW-01D-60.0-20170321 | Collected: AM | 3/21/2017 11:10:00 | Analysis Type: RES/DIS | Dilution: 1000 | | | | | |
|--|----------------------|--------------------|-------------------------------|-----------------------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 3200000 | | 87000 | MDL | 350000 | MRL | ug/ g | J | m, s |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-180166-1

Laboratory: TA IRV

EDD Filename: 440-180166-1

eQAPP Name: TetraTechInc_NERT_04052017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| m | Matrix Spike Upper Estimation |
| s | Surrogate/Tracer Recovery Lower Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/10/2017 4:44:38 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180292-1

Laboratory: TA IRV

EDD Filename: 440-180292-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

Sample ID: CTMW-04D-55.0-20170322
 Collected: 3/22/2017 10:00:00 AM
 Analysis Type: RES/DIS
 Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| Chlorate | 2900000 | | 77000 | MDL | 310000 | MRL | ug/ g | J- | s |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/7/2017 10:46:46 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180292-1

Laboratory: TA IRV

EDD Filename: 440-180292-1

eQAPP Name: TetraTechInc_NERT_04052017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| s | Surrogate/Tracer Recovery Lower Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/7/2017 10:46:46 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180320-1

Laboratory: TA IRV

EDD Filename: 440-180320-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

| Sample ID: CTMW-04D-25.0-20170322 | | Collected: AM | | 3/22/2017 8:40:00 | | | | Analysis Type: RES/DIS | Dilution: 500 |
|--|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|----------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 1600000 | | 47000 | MDL | 190000 | MRL | ug/ g | J- | s |

| Sample ID: CTMW-04D-25.0-20170322-FD | | Collected: AM | | 3/22/2017 8:41:00 | | | | Analysis Type: RES/DIS | Dilution: 500 |
|---|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|----------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 1600000 | | 47000 | MDL | 190000 | MRL | ug/ g | J- | s |

| Sample ID: CTMW-04D-30.0-20170322 | | Collected: AM | | 3/22/2017 8:50:00 | | | | Analysis Type: RES/DIS | Dilution: 1000 |
|--|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|-----------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 2000000 | | 84000 | MDL | 340000 | MRL | ug/ g | J- | s |

| Sample ID: CTMW-04D-35.0-20170322 | | Collected: AM | | 3/22/2017 9:00:00 | | | | Analysis Type: RES/DIS | Dilution: 1000 |
|--|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|-----------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 2100000 | | 83000 | MDL | 330000 | MRL | ug/ g | J- | s |

| Sample ID: CTMW-04D-40.0-20170322 | | Collected: AM | | 3/22/2017 9:15:00 | | | | Analysis Type: RES/DIS | Dilution: 1000 |
|--|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|-----------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 2400000 | | 78000 | MDL | 310000 | MRL | ug/ g | J- | s |

| Sample ID: CTMW-04D-45.0-20170322 | | Collected: AM | | 3/22/2017 9:30:00 | | | | Analysis Type: RES/DIS | Dilution: 1000 |
|--|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|-----------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 3600000 | | 83000 | MDL | 330000 | MRL | ug/ g | J- | s |

| Sample ID: CTMW-04D-5.0-20170322 | | Collected: AM | | 3/22/2017 7:50:00 | | | | Analysis Type: RES/DIS | Dilution: 10 |
|---|------------|----------------------|-----|--------------------------|------|---------|-------|-------------------------------|---------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 3200 | F1 | 540 | MDL | 2200 | MRL | ug/ g | J- | m |

| Sample ID: CTMW-04D-50.0-20170322 | | Collected: AM | | 3/22/2017 9:40:00 | | | | Analysis Type: RES/DIS | Dilution: 1000 |
|--|------------|----------------------|-------|--------------------------|--------|---------|-------|-------------------------------|-----------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 2300000 | | 71000 | MDL | 280000 | MRL | ug/ g | J- | s |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-180320-1

Laboratory: TA IRV

EDD Filename: 440-180320-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: SO |

3/22/2017 7:50:00

Sample ID:CTMW-04D-5.0-20170322 Collected:AM Analysis Type:RES/DIS Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 350 | | 5.2 | MDL | 22 | MRL | mg/ g | J | m, m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

3/22/2017 8:00:00

Sample ID:CTMW-04D-10.0-20170322 Collected:AM Analysis Type:RES Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.26 | J | 0.16 | MDL | 0.32 | MRL | mg/ g | J | sp |

3/22/2017 8:15:00

Sample ID:CTMW-04D-15.0-20170322 Collected:AM Analysis Type:RES Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.20 | J | 0.16 | MDL | 0.31 | MRL | mg/ g | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/7/2017 10:49:39 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180320-1

Laboratory: TA IRV

EDD Filename: 440-180320-1

eQAPP Name: TetraTechInc_NERT_04052017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| s | Surrogate/Tracer Recovery Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/7/2017 10:49:39 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180320-2

Laboratory: TA IRV

EDD Filename: 440-180320-2

eQAPP Name: TetraTechInc_NERT_04142017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

Sample ID: CTMW-04D-40.0-20170322
 Collected: AM
 3/22/2017 9:15:00
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| Nitrate as NO3 | 31 | F2 F1 | 2.5 | MDL | 5.0 | MRL | mg/L | J- | m, ld, h |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: SO |

Sample ID: CTMW-04D-40.0-20170322
 Collected: AM
 3/22/2017 9:15:00
 Analysis Type: RES/TOT
 Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| MOL BDENUM | 0.61 | J | 0.49 | MDL | 0.99 | MRL | mg/ g | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/18/2017 8:27:41 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180320-2

Laboratory: TA IRV

EDD Filename: 440-180320-2

eQAPP Name: TetraTechInc_NERT_04142017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|--------------------------------|
| bl | Method Blank Contamination |
| f | Matrix Spike Precision |
| h | Sampling to Analysis Rejection |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/18/2017 8:27:41 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180327-1

Laboratory: TA IRV

EDD Filename: 440-180327-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

3/22/2017 10:20:00
Sample ID: CTMW-04D-60.0-20170322 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2800000 | | 68000 | MDL | 270000 | MRL | ug/ g | J- | m, s |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: SO |

3/22/2017 10:20:00
Sample ID: CTMW-04D-60.0-20170322 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 770 | | 13 | MDL | 54 | MRL | mg/ g | J- | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/7/2017 10:52:07 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180327-1

Laboratory: TA IRV

EDD Filename: 440-180327-1

eQAPP Name: TetraTechInc_NERT_04052017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| m | Matrix Spike Lower Rejection |
| s | Surrogate/Tracer Recovery Lower Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/7/2017 10:52:07 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180434-1

Laboratory: TA IRV

EDD Filename: 440-180434-1

eQAPP Name: TetraTechInc_NERT_04052017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-180521-1

Laboratory: TA IRV

EDD Filename: 440-180521-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

Sample ID: CTMW-02D-25.0-20170323 **Collected:** 3/23/2017 9:30:00 AM **Analysis Type:** RES/DIS **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2200000 | | 98000 | MDL | 390000 | MRL | ug/ g | J- | s |

Sample ID: CTMW-02D-30.0-20170323 **Collected:** 3/23/2017 9:35:00 AM **Analysis Type:** RES/DIS **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 1600000 | | 80000 | MDL | 320000 | MRL | ug/ g | J- | s |

Sample ID: CTMW-02D-40.0-20170323 **Collected:** 3/23/2017 10:00:00 AM **Analysis Type:** RES/DIS **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2900000 | | 78000 | MDL | 310000 | MRL | ug/ g | J- | s |

Sample ID: CTMW-02D-45.0-20170323 **Collected:** 3/23/2017 10:55:00 AM **Analysis Type:** RES/DIS **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2400000 | | 85000 | MDL | 340000 | MRL | ug/ g | J- | s |

Sample ID: CTMW-02D-5.0-20170323 **Collected:** 3/23/2017 8:45:00 AM **Analysis Type:** RES/DIS **Dilution:** 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-------|---------|-------|------------------|-------------|
| Chlorate | 26000 | | 2700 | MDL | 11000 | MRL | ug/ g | J+ | m |

Sample ID: CTMW-02D-50.0-20170323 **Collected:** 3/23/2017 11:10:00 AM **Analysis Type:** RES/DIS **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2100000 | | 71000 | MDL | 290000 | MRL | ug/ g | J- | s |

Sample ID: CTMW-02D-55.0-20170323 **Collected:** 3/23/2017 11:25:00 AM **Analysis Type:** RES/DIS **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 3700000 | | 94000 | MDL | 370000 | MRL | ug/ g | J- | s |

Sample ID: CTMW-02D-60.0-20170323 **Collected:** 3/23/2017 11:45:00 AM **Analysis Type:** RES/DIS **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 4000000 | | 77000 | MDL | 310000 | MRL | ug/ g | J- | m, s |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-180521-1

Laboratory: TA IRV

EDD Filename: 440-180521-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: SO |

| Sample ID: CTMW-02D-10.0-20170323 | Collected: AM | 3/23/2017 8:55:00 | Analysis Type: RES/DIS | Dilution: 50 | | | | | |
|--|----------------------|-------------------|-------------------------------|---------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 49 | | 0.51 | MDL | 2.1 | MRL | mg/ g | J | fd |

| Sample ID: CTMW-02D-10.0-20170323-FD | Collected: AM | 3/23/2017 8:56:00 | Analysis Type: RES/DIS | Dilution: 100 | | | | | |
|---|----------------------|-------------------|-------------------------------|----------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 68 | | 1.0 | MDL | 4.3 | MRL | mg/ g | J | fd |

| Sample ID: CTMW-02D-5.0-20170323 | Collected: AM | 3/23/2017 8:45:00 | Analysis Type: RES/DIS | Dilution: 1000 | | | | | |
|---|----------------------|-------------------|-------------------------------|-----------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 420 | | 10 | MDL | 43 | MRL | mg/ g | J | m, m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

| Sample ID: CTMW-02D-60.0-20170323 | Collected: AM | 3/23/2017 11:45:00 | Analysis Type: RES | Dilution: 3 | | | | | |
|--|----------------------|--------------------|---------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 14 | F1 | 0.24 | MDL | 0.47 | MRL | mg/ g | J- | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-180521-1

Laboratory: TA IRV

EDD Filename: 440-180521-1

eQAPP Name: TetraTechInc_NERT_04052017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| fd | Field Duplicate Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| s | Surrogate/Tracer Recovery Lower Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/14/2017 8:33:31 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180521-2

Laboratory: TA IRV

EDD Filename: 440-180521-2

eQAPP Name: TetraTechInc_NERT_04142017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

Sample ID: CTMW-02D-40.0-20170323 Collected: 3/23/2017 10:00:00 AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| Nitrate as NO3 | 37 | | 2.5 | MDL | 5.0 | MRL | mg/L | J- | h |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: CTMW-02D-40.0-20170323 Collected: 3/23/2017 10:00:00 AM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| POTASSIUM | 3.8 | J | 2.5 | MDL | 5.0 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: SO |

Sample ID: CTMW-02D-40.0-20170323 Collected: 3/23/2017 10:00:00 AM Analysis Type: RES/TOT Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| MOL BDENUM | 0.62 | J | 0.50 | MDL | 1.0 | MRL | mg/ g | J | sp |
| SILVER | 0.29 | J B | 0.10 | MDL | 0.50 | MRL | mg/ g | U | bl |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-180521-2

Laboratory: TA IRV

EDD Filename: 440-180521-2

eQAPP Name: TetraTechInc_NERT_04142017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|--------------------------------|
| bl | Method Blank Contamination |
| h | Sampling to Analysis Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/18/2017 8:38:13 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180522-1

Laboratory: TA IRV

EDD Filename: 440-180522-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

Sample ID: CTMW-02D-35.0-20170323
3/23/2017 9:50:00
Collected: AM
Analysis Type: RES/DIS
Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2300000 | | 75000 | MDL | 300000 | MRL | ug/ g | J- | s |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/11/2017 8:49:56 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180522-1

Laboratory: TA IRV

EDD Filename: 440-180522-1

eQAPP Name: TetraTechInc_NERT_04052017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| s | Surrogate/Tracer Recovery Lower Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/11/2017 8:49:56 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180564-1

Laboratory: TA IRV

EDD Filename: 440-180564-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

| Sample ID: CTIW-02D-10.0-20170324 | | Collected: AM | | 3/24/2017 8:10:00 | | Analysis Type: RES/DIS | | Dilution: 1 | |
|--|------------|----------------------|----|--------------------------|-----|-------------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 980 | F1 | 59 | MDL | 240 | MRL | ug/ g | J- | m |

| Sample ID: CTIW-02D-25.0-20170324 | | Collected: AM | | 3/24/2017 8:45:00 | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|--------------------------|--------|-------------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 1800000 | | 93000 | MDL | 370000 | MRL | ug/ g | J- | s |

| Sample ID: CTIW-02D-30.0-20170324 | | Collected: AM | | 3/24/2017 8:55:00 | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|--------------------------|--------|-------------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 2400000 | | 82000 | MDL | 330000 | MRL | ug/ g | J- | s |

| Sample ID: CTIW-02D-35.0-20170324 | | Collected: AM | | 3/24/2017 9:05:00 | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|--------------------------|--------|-------------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 1900000 | | 76000 | MDL | 300000 | MRL | ug/ g | J- | s |

| Sample ID: CTIW-02D-40.0-20170324 | | Collected: AM | | 3/24/2017 9:20:00 | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|--------------------------|--------|-------------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 3200000 | | 81000 | MDL | 320000 | MRL | ug/ g | J- | s |

| Sample ID: CTIW-02D-45.0-20170324 | | Collected: AM | | 3/24/2017 9:45:00 | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|--------------------------|--------|-------------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 3600000 | | 96000 | MDL | 390000 | MRL | ug/ g | J- | s |

| Sample ID: CTIW-02D-50.0-20170324 | | Collected: AM | | 3/24/2017 9:55:00 | | Analysis Type: RES/DIS | | Dilution: 1000 | |
|--|------------|----------------------|-------|--------------------------|--------|-------------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 1900000 | | 66000 | MDL | 270000 | MRL | ug/ g | J- | s |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-180564-1

Laboratory: TA IRV

EDD Filename: 440-180564-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: SO |

Sample ID: CTIW-02D-10.0-20170324
3/24/2017 8:10:00
Collected: AM
Analysis Type: RES/DIS
Dilution: 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| PERCHLORATE | 18 | | 0.57 | MDL | 2.4 | MRL | mg/ g | J+ | m |

Sample ID: CTIW-02D-15.0-20170324
3/24/2017 8:30:00
Collected: AM
Analysis Type: RES/DIS
Dilution: 200

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| PERCHLORATE | 120 | | 2.0 | MDL | 8.5 | MRL | mg/ g | J | fd |

Sample ID: CTIW-02D-15.0-20170324-FD
3/24/2017 8:31:00
Collected: AM
Analysis Type: RES/DIS
Dilution: 200

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| PERCHLORATE | 67 | | 2.2 | MDL | 9.3 | MRL | mg/ g | J | fd |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180564-1

Laboratory: TA IRV

EDD Filename: 440-180564-1

eQAPP Name: TetraTechInc_NERT_04052017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| fd | Field Duplicate Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Upper Estimation |
| s | Surrogate/Tracer Recovery Lower Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/10/2017 4:59:35 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180590-1

Laboratory: TA IRV

EDD Filename: 440-180590-1

eQAPP Name: TetraTechInc_NERT_04052017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

Sample ID: CTIW-02D-5.0-20170324
 Collected: 3/24/2017 8:00:00 AM
 Analysis Type: RES
 Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| Chromium, hexavalent | 0.20 | J | 0.16 | MDL | 0.33 | MRL | mg/ g | J | sp |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180590-1

Laboratory: TA IRV

EDD Filename: 440-180590-1

eQAPP Name: TetraTechInc_NERT_04052017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180694-1

Laboratory: TA IRV

EDD Filename: 440-180694-1

eQAPP Name: TetraTechInc_NERT_04142017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

Sample ID: CTIW-02S-22.0-20170327 Collected: AM 3/27/2017 8:35:00 Analysis Type: RES/DIS Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| Nitrate as NO3 | 360 | | 25 | MDL | 50 | MRL | mg/L | J- | h |

Sample ID: CTIW-03S-22.0-20170327 Collected: PM 3/27/2017 3:10:00 Analysis Type: RES/DIS Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| Nitrate as NO3 | 330 | | 25 | MDL | 50 | MRL | mg/L | J- | h |

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

Sample ID: CTIW-02S-22.0-20170327 Collected: AM 3/27/2017 8:35:00 Analysis Type: RES/DIS Dilution: 200

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Chlorate | 380000 | | 13000 | MDL | 52000 | MRL | ug/ g | J- | s |

Sample ID: CTIW-03D-25.0-20170327 Collected: AM 3/27/2017 10:55:00 Analysis Type: RES/DIS Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 1200000 | | 44000 | MDL | 170000 | MRL | ug/ g | J- | s |

Sample ID: CTIW-03D-25.0-20170327-FD Collected: AM 3/27/2017 10:56:00 Analysis Type: RES/DIS Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 1000000 | | 38000 | MDL | 150000 | MRL | ug/ g | J- | s |

Sample ID: CTIW-03D-30.0-20170327 Collected: AM 3/27/2017 11:05:00 Analysis Type: RES/DIS Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2300000 | | 83000 | MDL | 330000 | MRL | ug/ g | J- | s |

Sample ID: CTIW-03D-35.0-20170327 Collected: AM 3/27/2017 11:15:00 Analysis Type: RES/DIS Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2900000 | | 86000 | MDL | 340000 | MRL | ug/ g | J- | s |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180694-1

Laboratory: TA IRV

EDD Filename: 440-180694-1

eQAPP Name: TetraTechInc_NERT_04142017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

| 3/27/2017 11:30:00 | | | | | | | | | |
|--|----------------------|-------------------------------|-------|---------|--------|-----------------------|-------|------------------|-------------|
| Sample ID: CTIW-03D-40.0-20170327 | Collected: AM | Analysis Type: RES/DIS | | | | Dilution: 1000 | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 3300000 | | 79000 | MDL | 310000 | MRL | ug/ g | J- | s |

| 3/27/2017 11:35:00 | | | | | | | | | |
|--|----------------------|-------------------------------|-------|---------|--------|-----------------------|-------|------------------|-------------|
| Sample ID: CTIW-03D-41.5-20170327 | Collected: AM | Analysis Type: RES/DIS | | | | Dilution: 1000 | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 3100000 | | 72000 | MDL | 290000 | MRL | ug/ g | J- | s |

| 3/27/2017 11:55:00 | | | | | | | | | |
|--|----------------------|-------------------------------|-------|---------|--------|----------------------|-------|------------------|-------------|
| Sample ID: CTIW-03D-45.0-20170327 | Collected: AM | Analysis Type: RES/DIS | | | | Dilution: 500 | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 2400000 | | 41000 | MDL | 160000 | MRL | ug/ g | J- | s |

| 3/27/2017 12:05:00 | | | | | | | | | |
|--|----------------------|-------------------------------|-------|---------|--------|----------------------|-------|------------------|-------------|
| Sample ID: CTIW-03D-50.0-20170327 | Collected: PM | Analysis Type: RES/DIS | | | | Dilution: 500 | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 1500000 | | 40000 | MDL | 160000 | MRL | ug/ g | J- | s |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: SO |

| 3/27/2017 8:35:00 | | | | | | | | | |
|--|----------------------|-------------------------------|-----|---------|-----|----------------------|-------|------------------|-------------|
| Sample ID: CTIW-02S-22.0-20170327 | Collected: AM | Analysis Type: RES/DIS | | | | Dilution: 100 | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 75 | | 1.2 | MDL | 5.2 | MRL | mg/ g | J | m, m |

| 3/27/2017 10:15:00 | | | | | | | | | |
|--|----------------------|-------------------------------|-----|---------|-----|----------------------|-------|------------------|-------------|
| Sample ID: CTIW-03D-10.0-20170327 | Collected: AM | Analysis Type: RES/DIS | | | | Dilution: 200 | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 74 | | 2.1 | MDL | 8.7 | MRL | mg/ g | J | fd |

| 3/27/2017 10:16:00 | | | | | | | | | |
|---|----------------------|-------------------------------|------|---------|-----|---------------------|-------|------------------|-------------|
| Sample ID: CTIW-03D-10.0-20170327-FD | Collected: AM | Analysis Type: RES/DIS | | | | Dilution: 50 | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 41 | | 0.51 | MDL | 2.1 | MRL | mg/ g | J | fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180694-1

Laboratory: TA IRV

EDD Filename: 440-180694-1

eQAPP Name: TetraTechInc_NERT_04142017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: SO |

Sample ID: CTIW-03D-5.0-20170327 Collected: 3/27/2017 10:00:00 AM Analysis Type: RES/DIS Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 360 | | 5.1 | MDL | 22 | MRL | mg/ g | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: SO |

Sample ID: CTIW-03D-25.0-20170327 Collected: 3/27/2017 10:55:00 AM Analysis Type: RES/TOT Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| CHROMIUM | 42 | | 0.86 | MDL | 1.7 | MRL | mg/ g | J | fd |

Sample ID: CTIW-03D-25.0-20170327-FD Collected: 3/27/2017 10:56:00 AM Analysis Type: RES/TOT Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| CHROMIUM | 25 | | 1.5 | MDL | 3.0 | MRL | mg/ g | J | fd |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B_Leach | Matrix: AQ |

Sample ID: CTIW-02S-22.0-20170327 Collected: 3/27/2017 8:35:00 AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| POTASSIUM | 3.4 | J | 2.5 | MDL | 5.0 | MRL | mg/L | J | sp |
| SODIUM | 200 | | 2.5 | MDL | 5.0 | MRL | mg/L | J- | m |

Sample ID: CTIW-03S-22.0-20170327 Collected: 3/27/2017 3:10:00 PM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| POTASSIUM | 3.1 | J | 2.5 | MDL | 5.0 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability

Study 4/21/2017 3:05:24 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180694-1

Laboratory: TA IRV

EDD Filename: 440-180694-1

eQAPP Name: TetraTechInc_NERT_04142017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: SO |

3/27/2017 8:35:00

Sample ID: CTIW-02S-22.0-20170327 Collected: AM Analysis Type: RES/TOT Dilution: 100

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 1.7 | U F1 | 1.7 | MDL | 6.4 | MRL | mg/ g | UJ | m |
| BARIUM | 26 | F1 | 1.6 | MDL | 3.2 | MRL | mg/ g | J+ | m |
| COBALT | 3.1 | J | 1.3 | MDL | 3.2 | MRL | mg/ g | J | sp |

3/27/2017 11:35:00

Sample ID: CTIW-03D-41.5-20170327 Collected: AM Analysis Type: RES/TOT Dilution: 100

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| SILVER | 1.2 | J | 0.72 | MDL | 3.6 | MRL | mg/ g | J | sp |
| INC | 42 | J | 36 | MDL | 72 | MRL | mg/ g | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

3/27/2017 10:55:00

Sample ID: CTIW-03D-25.0-20170327 Collected: AM Analysis Type: RES Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 6.4 | | 0.26 | MDL | 0.52 | MRL | mg/ g | J | fd |

3/27/2017 10:56:00

Sample ID: CTIW-03D-25.0-20170327-FD Collected: AM Analysis Type: RES Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 4.7 | | 0.23 | MDL | 0.45 | MRL | mg/ g | J | fd |

3/27/2017 10:00:00

Sample ID: CTIW-03D-5.0-20170327 Collected: AM Analysis Type: RES Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.16 | J | 0.16 | MDL | 0.32 | MRL | mg/ g | J | sp |

3/27/2017 3:10:00

Sample ID: CTIW-03S-22.0-20170327 Collected: PM Analysis Type: RES Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.22 | J | 0.17 | MDL | 0.34 | MRL | mg/ g | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180694-1

Laboratory: TA IRV

EDD Filename: 440-180694-1

eQAPP Name: TetraTechInc_NERT_04142017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7471A | Matrix: SO |

Sample ID: CTIW-02S-22.0-20170327
3/27/2017 8:35:00
Collected: AM
Analysis Type: RES/TOT
Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| MERCUR | 0.015 | J | 0.015 | MDL | 0.025 | MRL | mg/ g | J | sp |

* denotes a non-reportable result

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Study 4/21/2017 3:05:24 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180694-1

Laboratory: TA IRV

EDD Filename: 440-180694-1

eQAPP Name: TetraTechInc_NERT_04142017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| bl | Method Blank Contamination |
| e | Sampling to Analysis Estimation |
| fd | Field Duplicate Precision |
| h | Sampling to Analysis Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| s | Surrogate/Tracer Recovery Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180695-1

Laboratory: TA IRV

EDD Filename: 440-180695-1

eQAPP Name: TetraTechInc_NERT_04052017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-180978-1

Laboratory: TA IRV

EDD Filename: 440-180978-1

eQAPP Name: TetraTechInc_NERT_11102017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | Matrix: | | SO | | | | | | |

3/29/2017 10:30:00

Sample ID: IDW-CT-20170329-Comp Collected: AM Analysis Type: RES/TOT Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| MOL BDENUM | 0.98 | J | 0.50 | MDL | 0.99 | MRL | mg/ g | J | sp |

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 7199 | Matrix: | | SO | | | | | | |

3/29/2017 10:30:00

Sample ID: IDW-CT-20170329-Comp Collected: AM Analysis Type: RES Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.48 | | 0.17 | MDL | 0.34 | MRL | mg/ g | J- | h |

| | | | | | | | | | | |
|-------------------------|-----------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | SVOA | | | | | | | | | |
| Method: | 8015B DRO | Matrix: | | SO | | | | | | |

3/29/2017 10:30:00

Sample ID: IDW-CT-20170329-Comp Collected: AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| ORO (c23-C40) | 5.6 | J | 2.8 | MDL | 5.7 | MRL | mg/ g | J | sp |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-180978-1

Laboratory: TA IRV

EDD Filename: 440-180978-1

eQAPP Name: TetraTechInc_NERT_11102017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181198-1

Laboratory: TA IRV

EDD Filename: 440-181198-1

eQAPP Name: TetraTechInc_NERT_04252017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID:CTIW-01D-20170403 **Collected:**4/3/2017 3:35:00 PM **Analysis Type:**RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.17 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.52 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

Sample ID:CTIW-02S-20170403 **Collected:**4/3/2017 3:10:00 PM **Analysis Type:**RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.049 | J F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | sp, m |
| Orthophosphorus as PO4 | 0.15 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

Sample ID:CTIW-01D-20170403 **Collected:**4/3/2017 3:35:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.044 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID:CTIW-02S-20170403 **Collected:**4/3/2017 3:10:00 PM **Analysis Type:**RES/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 11 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID:CTIW-02S-20170403 **Collected:**4/3/2017 3:10:00 PM **Analysis Type:**RE2/DIS **Dilution:** 40

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| IRON | 320 | U F1 F2 | 320 | MDL | 800 | MRL | ug/L | UJ | ld |
| VANADIUM | 40 | U F1 F2 | 40 | MDL | 80 | MRL | ug/L | UJ | ld |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181198-1

Laboratory: TA IRV

EDD Filename: 440-181198-1

eQAPP Name: TetraTechInc_NERT_04252017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | Matrix: | | AQ | | | | | | |

Sample ID: CTIW-02S-20170403 Collected: 4/3/2017 3:10:00 PM Analysis Type: RES/DIS Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| CHROMIUM | 11000 | | 5.0 | MDL | 20 | MRL | ug/L | J+ | m |

| | | | | | | | | | | |
|-------------------------|---------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | VOA | | | | | | | | | |
| Method: | RSK-175 | Matrix: | | AQ | | | | | | |

Sample ID: CTIW-02S-20170403 Collected: 4/3/2017 3:10:00 PM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|---------|---------|---------|---------|-------|------------------|-------------|
| Methane (FID) | 0.00034 | J | 0.00025 | MDL | 0.00099 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 440-181198-1

Laboratory: TA IRV

EDD Filename: 440-181198-1

eQAPP Name: TetraTechInc_NERT_04252017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| f | Matrix Spike Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181291-1

Laboratory: TA IRV

EDD Filename: 440-181291-1

eQAPP Name: TetraTechInc_NERT_04252017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTIW-02D-20170404 | | Collected: 4/4/2017 9:35:00 AM | | | | Analysis Type: RE2 | | Dilution: 1 | |
|-------------------------------------|------------|---------------------------------------|-------|---------|-------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.041 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| Sample ID: CTIW-02D-20170404 | | Collected: 4/4/2017 9:35:00 AM | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|---------------------------------------|-------|---------|-------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.073 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.22 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTIW-03D-20170404 | | Collected: 4/4/2017 3:30:00 PM | | | | Analysis Type: RE2 | | Dilution: 1 | |
|-------------------------------------|------------|---------------------------------------|-------|---------|-------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.035 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| Sample ID: CTIW-03D-20170404 | | Collected: 4/4/2017 3:30:00 PM | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|---------------------------------------|-------|---------|-------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.051 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.16 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTIW-03S-20170404 | | Collected: 4/4/2017 1:15:00 PM | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|---------------------------------------|-------|---------|-------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.041 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J- | sp, m |
| Orthophosphorus as PO4 | 0.13 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J- | sp, m |

| Sample ID: CTMW-01S-20170404 | | Collected: 4/4/2017 9:32:00 AM | | | | Analysis Type: RE2 | | Dilution: 1 | |
|-------------------------------------|------------|---------------------------------------|-------|---------|-------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.026 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| Sample ID: CTMW-01S-20170404 | | Collected: 4/4/2017 9:32:00 AM | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|---------------------------------------|-------|---------|-------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.067 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.21 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181291-1

Laboratory: TA IRV

EDD Filename: 440-181291-1

eQAPP Name: TetraTechInc_NERT_04252017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID:CTMW-02D-20170404 **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RE2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.045 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

Sample ID:CTMW-02D-20170404 **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.074 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.23 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

Sample ID:CTMW-02D-20170404-FD **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.081 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.25 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

Sample ID:CTIW-02D-20170404 **Collected:**4/4/2017 9:35:00 AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.028 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |

Sample ID:CTIW-03D-20170404 **Collected:**4/4/2017 3:30:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.028 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |

Sample ID:CTMW-01S-20170404 **Collected:**4/4/2017 9:32:00 AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.024 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181291-1

Laboratory: TA IRV

EDD Filename: 440-181291-1

eQAPP Name: TetraTechInc_NERT_04252017

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

Sample ID:CTMW-02D-20170404 **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.052 | | 0.020 | MDL | 0.050 | MRL | mg/L | J | fd |

Sample ID:CTMW-02D-20170404-FD **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.025 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp, fd |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

Sample ID:CTIW-03S-20170404 **Collected:**4/4/2017 1:15:00 PM **Analysis Type:**RES2 **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| Pyruvic acid | 7.4 | U F1 | 7.4 | MDL | 30 | MRL | mg/L | UJ | m |

Sample ID:CTMW-02D-20170404 **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Formic-acid | 0.26 | U F1 | 0.26 | MDL | 1.0 | MRL | mg/L | UJ | m |
| Lactic Acid | 0.31 | U F1 | 0.31 | MDL | 1.0 | MRL | mg/L | UJ | m |
| n-Butyric acid | 0.26 | U F1 | 0.26 | MDL | 1.0 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID:CTIW-02D-20170404 **Collected:**4/4/2017 9:35:00 AM **Analysis Type:**RES/TOT **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-------|---------|------|---------|-------|------------------|-------------|
| MANGANESE | 0.056 | J | 0.050 | MDL | 0.10 | MRL | mg/L | J | sp |

Sample ID:CTMW-01S-20170404 **Collected:**4/4/2017 9:32:00 AM **Analysis Type:**RES/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 11 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J+ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181291-1

Laboratory: TA IRV

EDD Filename: 440-181291-1

eQAPP Name: TetraTechInc_NERT_04252017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID:CTMW-02D-20170404 **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RES/TOT **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-------|---------|------|---------|-------|------------------|-------------|
| MANGANESE | 0.090 | J | 0.050 | MDL | 0.10 | MRL | mg/L | J | sp |

Sample ID:CTMW-02D-20170404-FD **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RES/TOT **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-------|---------|------|---------|-------|------------------|-------------|
| MANGANESE | 0.076 | J | 0.050 | MDL | 0.10 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID:CTIW-02D-20170404 **Collected:**4/4/2017 9:35:00 AM **Analysis Type:**RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| NIC EL | 5.3 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| INC | 74 | J | 25 | MDL | 200 | MRL | ug/L | J | sp |

Sample ID:CTIW-03D-20170404 **Collected:**4/4/2017 3:30:00 PM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| COBALT | 0.64 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 1.6 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 4.7 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

Sample ID:CTMW-01S-20170404 **Collected:**4/4/2017 9:32:00 AM **Analysis Type:**RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| NIC EL | 5.5 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

Sample ID:CTMW-02D-20170404 **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RE2/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| CHROMIUM | 18000 | B | 5.0 | MDL | 20 | MRL | ug/L | J- | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181291-1

Laboratory: TA IRV

EDD Filename: 440-181291-1

eQAPP Name: TetraTechInc_NERT_04252017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID:CTMW-02D-20170404 **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RE3/DIS **Dilution:** 100

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| VANADIUM | 100 | U | 100 | MDL | 200 | MRL | ug/L | R | m |

Sample ID:CTMW-02D-20170404 **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ALUMINUM | 5.0 | U | 5.0 | MDL | 10 | MRL | ug/L | UJ | fd |
| COBALT | 0.80 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 1.9 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| SELENIUM | 4.2 | F1 | 0.50 | MDL | 2.0 | MRL | ug/L | J- | m |
| INC | 3.6 | J F2 | 2.5 | MDL | 20 | MRL | ug/L | J | sp, ld |

Sample ID:CTMW-02D-20170404-FD **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ALUMINUM | 6.4 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp, fd |
| COBALT | 0.76 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 1.8 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 4.7 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID:CTIW-03D-20170404 **Collected:**4/4/2017 3:30:00 PM **Analysis Type:**RES **Dilution:** 25

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| 1,4-DICHLOROBEN ENE | 7.0 | J | 6.3 | MDL | 13 | MRL | ug/L | J | sp |

Sample ID:CTMW-02D-20170404 **Collected:**4/4/2017 2:05:00 PM **Analysis Type:**RES **Dilution:** 25

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| 1,2-DICHLOROBEN ENE | 9.4 | J | 6.3 | MDL | 13 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181291-1

Laboratory: TA IRV

EDD Filename: 440-181291-1

eQAPP Name: TetraTechInc_NERT_04252017

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID: CTMW-02D-20170404-FD

Collected: 4/4/2017 2:05:00 PM Analysis Type: RES

Dilution: 25

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| 1,2-DICHLOROBEN ENE | 9.4 | J | 6.3 | MDL | 13 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/26/2017 12:06:13 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181291-1

Laboratory: TA IRV

EDD Filename: 440-181291-1

eQAPP Name: TetraTechInc_NERT_04252017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| f | Matrix Spike Precision |
| fd | Field Duplicate Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/26/2017 12:06:13 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181417-1

Laboratory: TA IRV

EDD Filename: 440-181417-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

Sample ID: CTIW-01S-20170405 **Collected:** 4/5/2017 3:10:00 PM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.12 | J | 0.10 | MDL | 0.20 | MRL | mg/L | J | sp |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID: CTMW-03S-20170405 **Collected:** 4/5/2017 12:10:00 PM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.036 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |
| Orthophosphorus as PO4 | 0.11 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J | sp |

Sample ID: CTMW-04D-20170405 **Collected:** 4/5/2017 12:15:00 PM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.029 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |
| Orthophosphorus as PO4 | 0.089 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J | sp |

Sample ID: CTMW-04S-20170405 **Collected:** 4/5/2017 9:35:00 AM **Analysis Type:** RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.037 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

Sample ID: CTMW-04D-20170405 **Collected:** 4/5/2017 12:15:00 PM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.020 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181417-1

Laboratory: TA IRV

EDD Filename: 440-181417-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

Sample ID: CTMW-03S-20170405 Collected: 4/5/2017 12:10:00 PM Analysis Type: RES Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| Formic-acid | 1.3 | U F1 | 1.3 | MDL | 5.0 | MRL | mg/L | UJ | m |
| Lactic Acid | 1.6 | U F1 | 1.6 | MDL | 5.0 | MRL | mg/L | UJ | m |
| Pyruvic acid | 1.9 | U F1 | 1.9 | MDL | 7.5 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: CTIW-01S-20170405 Collected: 4/5/2017 3:10:00 PM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| MANGANESE | 0.011 | J | 0.010 | MDL | 0.020 | MRL | mg/L | J | sp |

Sample ID: CTMW-04D-20170405 Collected: 4/5/2017 12:15:00 PM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| MANGANESE | 0.013 | J | 0.010 | MDL | 0.020 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: CTMW-02S-20170405 Collected: 4/5/2017 9:58:00 AM Analysis Type: RE2/DIS Dilution: 100

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|------|---------|-------|------------------|-------------|
| IRON | 800 | U F1 | 800 | MDL | 2000 | MRL | ug/L | R | m |
| VANADIUM | 100 | U | 100 | MDL | 200 | MRL | ug/L | R | m |

Sample ID: CTMW-02S-20170405 Collected: 4/5/2017 9:58:00 AM Analysis Type: RES/DIS Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| CHROMIUM | 11000 | | 5.0 | MDL | 20 | MRL | ug/L | J+ | m |
| NIC EL | 11 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| INC | 86 | J F1 | 25 | MDL | 200 | MRL | ug/L | J- | sp, m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181417-1

Laboratory: TA IRV

EDD Filename: 440-181417-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | Matrix: | | AQ | | | | | | |

Sample ID: CTMW-03S-20170405 Collected: 4/5/2017 12:10:00 PM Analysis Type: RES/DIS Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| MANGANESE | 9.1 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |

Sample ID: CTMW-04S-20170405 Collected: 4/5/2017 9:35:00 AM Analysis Type: RES/DIS Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| NIC EL | 7.2 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

| | | | | | | | | | | |
|-------------------------|----------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | VOA | | | | | | | | | |
| Method: | 8260B LL | Matrix: | | AQ | | | | | | |

Sample ID: CTMW-03S-20170405 Collected: 4/5/2017 12:10:00 PM Analysis Type: RES Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| DICHLORODIFLUOROMETHANE | 8.0 | U | 8.0 | MDL | 20 | MRL | ug/L | UJ | I |
| METHYLENE CHLORIDE | 21 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

Sample ID: CTMW-04S-20170405 Collected: 4/5/2017 9:35:00 AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| BROMOFORM | 0.82 | J | 0.40 | MDL | 1.0 | MRL | ug/L | J | sp |
| CARBON TETRACHLORIDE | 0.41 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |
| TETRACHLOROETHENE | 0.26 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181417-1

Laboratory: TA IRV

EDD Filename: 440-181417-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| bl | Method Blank Contamination |
| l | Laboratory Control Spike Lower Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

10/19/2017 11:32:32 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181550-1

Laboratory: TA IRV

EDD Filename: 440-181550-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID: CTIW-01D-20170406 **Collected:** 4/6/2017 9:10:00 AM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.050 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.15 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

Sample ID: CTMW-03D-20170406 **Collected:** 4/6/2017 9:06:00 AM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.038 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J- | sp, m |
| Orthophosphorus as PO4 | 0.12 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J- | sp, m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: CTIW-01D-20170406 **Collected:** 4/6/2017 9:10:00 AM **Analysis Type:** RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| NIC EL | 5.0 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| INC | 74 | J | 25 | MDL | 200 | MRL | ug/L | J | sp |

Sample ID: CTMW-03D-20170406 **Collected:** 4/6/2017 9:06:00 AM **Analysis Type:** RE2/DIS **Dilution:** 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|----|---------|-----|---------|-------|------------------|-------------|
| VANADIUM | 50 | U F1 | 50 | MDL | 100 | MRL | ug/L | R | m |

Sample ID: CTMW-03D-20170406 **Collected:** 4/6/2017 9:06:00 AM **Analysis Type:** RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| ALUMINUM | 110 | B F1 | 50 | MDL | 100 | MRL | ug/L | J- | m |
| CHROMIUM | 16000 | B | 5.0 | MDL | 20 | MRL | ug/L | J- | m, m |
| INC | 36 | J F1 | 25 | MDL | 200 | MRL | ug/L | J- | sp, m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181550-1

Laboratory: TA IRV

EDD Filename: 440-181550-1

eQAPP Name: TetraTechInc_NERT_04282017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

5/1/2017 6:30:29 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181552-1

Laboratory: TA IRV

EDD Filename: 440-181552-1

eQAPP Name: TetraTechInc_NERT_04252017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: UFMW-04I-20170406 **Collected:** 4/6/2017 3:40:00 PM **Analysis Type:** RE2/DIS **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| ALUMINUM | 350 | | 25 | MDL | 50 | MRL | ug/L | J+ | m |

Sample ID: UFMW-04I-20170406 **Collected:** 4/6/2017 3:40:00 PM **Analysis Type:** RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| COPPER | 1.8 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| NIC EL | 1.3 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 5.9 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFMW-04I-20170406 **Collected:** 4/6/2017 3:40:00 PM **Analysis Type:** RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 42 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181552-1

Laboratory: TA IRV

EDD Filename: 440-181552-1

eQAPP Name: TetraTechInc_NERT_04252017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/26/2017 12:33:48 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181652-1

Laboratory: TA IRV

EDD Filename: 440-181652-1

eQAPP Name: TetraTechInc_NERT_04252017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

4/7/2017 11:35:00

Sample ID: UFMW-05S-20170407 Collected: AM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 0.0046 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

4/7/2017 9:40:00 AM

Sample ID: UFMW-04S-20170407 Collected: 4/7/2017 9:40:00 AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 0.68 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| COBALT | 0.51 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 1.3 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 4.7 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

4/7/2017 1:10:00 PM

Sample ID: UFMW-05I-20170407 Collected: 4/7/2017 1:10:00 PM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| COPPER | 1.9 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| NIC EL | 1.2 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 4.6 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

4/7/2017 11:35:00

Sample ID: UFMW-05S-20170407 Collected: AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| COBALT | 0.87 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| INC | 7.1 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181652-1

Laboratory: TA IRV

EDD Filename: 440-181652-1

eQAPP Name: TetraTechInc_NERT_04252017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

4/26/2017 12:35:47 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181739-1

Laboratory: TA IRV

EDD Filename: 440-181739-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

4/10/2017 2:50:00
Sample ID: UFIW-06S-20170410 **Collected:** PM **Analysis Type:** RES2 **Dilution:** 100

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chlorate | 1400 | J | 1000 | MDL | 2000 | MRL | ug/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

4/10/2017 2:35:00
Sample ID: UFIW-05I-20170410 **Collected:** PM **Analysis Type:** RES/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 0.0029 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

4/10/2017 1:50:00
Sample ID: UFIW-05S-20170410 **Collected:** PM **Analysis Type:** RES/TOT **Dilution:** 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|-------|---------|-------|------------------|-------------|
| CHROMIUM | 0.0054 | J | 0.0050 | MDL | 0.010 | MRL | mg/L | J | sp |

4/10/2017 2:50:00
Sample ID: UFIW-06S-20170410 **Collected:** PM **Analysis Type:** RES/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 0.0042 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

4/10/2017 2:35:00
Sample ID: UFIW-05I-20170410 **Collected:** PM **Analysis Type:** RES/DIS **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| NIC EL | 4.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

4/10/2017 1:50:00
Sample ID: UFIW-05S-20170410 **Collected:** PM **Analysis Type:** RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ALUMINIUM | 8.5 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |
| CHROMIUM | 0.99 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| COBALT | 0.60 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| URANIUM | 0.75 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181739-1

Laboratory: TA IRV

EDD Filename: 440-181739-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | | | | | | | | | |
|-------------------------|--------|--|--|-------------------|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | | | Matrix: AQ | | | | | | |

| Sample ID: UFIW-05S-20170410 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/10/2017 1:50:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| INC | 5.7 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| Sample ID: UFIW-06S-20170410 | | Collected: PM | | | Analysis Type: RE2/DIS | | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/10/2017 2:50:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| MANGANESE | 450 | | 0.50 | MDL | 1.0 | MRL | ug/L | J- | m |

| Sample ID: UFIW-06S-20170410 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/10/2017 2:50:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ANTIMON | 1.3 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| COBALT | 0.59 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 5.5 | F1 | 0.50 | MDL | 2.0 | MRL | ug/L | J- | m |
| SELENIUM | 1.6 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 11 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| Sample ID: UFIW-07S-20170410 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/10/2017 2:25:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ANTIMON | 0.71 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| COBALT | 0.71 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| INC | 5.2 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| Sample ID: UFMW-06I-20170410 | | Collected: AM | | | Analysis Type: RES/DIS | | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/10/2017 11:15:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 6.0 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp, fd |
| INC | 3.8 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp, fd |

| Sample ID: UFMW-06I-20170410-FD | | Collected: AM | | | Analysis Type: RES/DIS | | | Dilution: 1 | |
|--|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/10/2017 11:15:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 5.0 | U | 5.0 | MDL | 10 | MRL | ug/L | UJ | fd |
| INC | 7.5 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp, fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181739-1

Laboratory: TA IRV

EDD Filename: 440-181739-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: UFMW-06S-20170410
 Collected: 4/10/2017 9:40:00 AM
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| COBALT | 0.54 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| INC | 6.3 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181739-1

Laboratory: TA IRV

EDD Filename: 440-181739-1

eQAPP Name: TetraTechInc_NERT_04282017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| fd | Field Duplicate Precision |
| m | Matrix Spike Lower Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

5/10/2017 10:47:10 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181742-1

Laboratory: TA IRV

EDD Filename: 440-181742-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: UFIW-08S-20170410
 Collected: 4/10/2017 1:45:00 PM
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ALUMINUM | 7.1 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |
| ANTIMON | 0.56 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| COBALT | 0.61 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| SELENIUM | 1.2 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| CHROMIUM | 1.1 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181742-1

Laboratory: TA IRV

EDD Filename: 440-181742-1

eQAPP Name: TetraTechInc_NERT_04282017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| bl | Method Blank Contamination |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

5/10/2017 10:49:10 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181867-1

Laboratory: TA IRV

EDD Filename: 440-181867-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | |
|-------------------------|-----------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0_ppm | Matrix: AQ |

| Sample ID: UFIW-01S-20170411 | | Collected: PM | | 4/11/2017 3:00:00 | | Analysis Type: RES | | Dilution: 1000 | |
|-------------------------------------|------------|----------------------|------|--------------------------|-----|---------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 37 | | 0.50 | MDL | 1.0 | MRL | mg/L | J- | m, m |

| Sample ID: UFIW-06I-20170411 | | Collected: PM | | 4/11/2017 1:35:00 | | Analysis Type: RES | | Dilution: 1000 | |
|-------------------------------------|------------|----------------------|------|--------------------------|-----|---------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 69 | | 0.50 | MDL | 1.0 | MRL | mg/L | J- | m, m |

| Sample ID: UFIW-07I-20170411 | | Collected: PM | | 4/11/2017 2:10:00 | | Analysis Type: RES | | Dilution: 1000 | |
|-------------------------------------|------------|----------------------|-----|--------------------------|----|---------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 130 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m, m |

| Sample ID: UFIW-08I-20170411 | | Collected: PM | | 4/11/2017 2:35:00 | | Analysis Type: RES | | Dilution: 1000 | |
|-------------------------------------|------------|----------------------|-----|--------------------------|----|---------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 170 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m, m |

| Sample ID: UFMW-01I-20170411 | | Collected: AM | | 4/11/2017 9:45:00 | | Analysis Type: RES | | Dilution: 1000 | |
|-------------------------------------|------------|----------------------|-----|--------------------------|----|---------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 450 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m, m |

| Sample ID: UFMW-02I-20170411 | | Collected: AM | | 4/11/2017 11:05:00 | | Analysis Type: RES | | Dilution: 1000 | |
|-------------------------------------|------------|----------------------|-----|---------------------------|----|---------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 500 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m, m |

| Sample ID: UFMW-03I-20170411 | | Collected: PM | | 4/11/2017 2:00:00 | | Analysis Type: RES | | Dilution: 2000 | |
|-------------------------------------|------------|----------------------|-----|--------------------------|-----|---------------------------|-------|-----------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 140 | | 1.0 | MDL | 2.0 | MRL | mg/L | J- | m, m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181867-1

Laboratory: TA IRV

EDD Filename: 440-181867-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6010B | Matrix: | | AQ | | | | | | |

| Sample ID: UFIW-01S-20170411 | | Collected: PM | | | Analysis Type: RES/TOT | | | Dilution: 2 | |
|-------------------------------------|------------|----------------------|--------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/11/2017 3:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 0.0099 | J | 0.0050 | MDL | 0.010 | MRL | mg/L | J | sp |

| Sample ID: UFMW-03I-20170411 | | Collected: PM | | | Analysis Type: RES/TOT | | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|--------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/11/2017 2:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 0.0025 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | Matrix: | | AQ | | | | | | |

| Sample ID: UFIW-01S-20170411 | | Collected: PM | | | Analysis Type: RE2/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/11/2017 3:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 87 | J | 40 | MDL | 100 | MRL | ug/L | J | sp |

| Sample ID: UFIW-01S-20170411 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/11/2017 3:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ANTIMON | 2.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| COPPER | 9.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| NIC EL | 7.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 14 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

| Sample ID: UFIW-06I-20170411 | | Collected: PM | | | Analysis Type: RE2/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/11/2017 1:35:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 68 | J | 40 | MDL | 100 | MRL | ug/L | J | sp |

| Sample ID: UFIW-06I-20170411 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/11/2017 1:35:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 7.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| NIC EL | 4.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 14 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181867-1

Laboratory: TA IRV

EDD Filename: 440-181867-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | | | | | | | | | |
|-------------------------|--------|--|--|-------------------|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | | | Matrix: AQ | | | | | | |

| Sample ID: UFIW-071-20170411 | | Collected: 4/11/2017 2:10:00 PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|--|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 6.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| NIC EL | 4.4 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 15 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

| Sample ID: UFIW-081-20170411 | | Collected: 4/11/2017 2:35:00 PM | | | Analysis Type: RE2/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|--|----|---------|-------------------------------|---------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 63 | J | 40 | MDL | 100 | MRL | ug/L | J | sp |

| Sample ID: UFIW-081-20170411 | | Collected: 4/11/2017 2:35:00 PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|--|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 7.1 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| NIC EL | 4.5 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

| Sample ID: UFMW-011-20170411 | | Collected: 4/11/2017 9:45:00 AM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|--|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 5.7 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| NIC EL | 6.0 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 2.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

| Sample ID: UFMW-021-20170411 | | Collected: 4/11/2017 11:05:00 AM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|---|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 3.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| COPPER | 5.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| MANGANESE | 4.4 | J | 2.5 | MDL | 5.0 | MRL | ug/L | J | sp |
| NIC EL | 3.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 15 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

| Sample ID: UFMW-031-20170411 | | Collected: 4/11/2017 2:00:00 PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|--|----|---------|-------------------------------|---------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 31 | J B F 1 | 25 | MDL | 50 | MRL | ug/L | J- | sp, m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181867-1

Laboratory: TA IRV

EDD Filename: 440-181867-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: UFMW-03I-20170411
 Collected: 4/11/2017 2:00:00 PM
 Analysis Type: RES/DIS
 Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| CHROMIUM | 2.6 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| COPPER | 6.2 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| NIC EL | 3.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 4.4 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 18 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFMW-01I-20170411
 Collected: 4/11/2017 9:45:00 AM
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 1.3 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

Sample ID: UFMW-03I-20170411
 Collected: 4/11/2017 2:00:00 PM
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 1.8 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181867-1

Laboratory: TA IRV

EDD Filename: 440-181867-1

eQAPP Name: TetraTechInc_NERT_04282017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

5/10/2017 10:58:12 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181998-1

Laboratory: TA IRV

EDD Filename: 440-181998-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

| Sample ID: UFIW-02S-20170412 | Collected: 4/12/2017 10:20:00 AM | Analysis Type: RES | Dilution: 5 | | | | | | |
|-------------------------------------|---|---------------------------|--------------------|---------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Nitrate as N | 0.28 | U | 0.28 | MDL | 0.55 | MRL | mg/L | UJ | fd |

| Sample ID: UFIW-02S-20170412-FD | Collected: 4/12/2017 10:30:00 AM | Analysis Type: RES | Dilution: 5 | | | | | | |
|--|---|---------------------------|--------------------|---------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Nitrate as N | 0.48 | J | 0.28 | MDL | 0.55 | MRL | mg/L | J | sp, fd |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

| Sample ID: UFIW-02S-20170412 | Collected: 4/12/2017 10:20:00 AM | Analysis Type: RES2 | Dilution: 10 | | | | | | |
|-------------------------------------|---|----------------------------|---------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 170 | J | 100 | MDL | 200 | MRL | ug/L | J | sp |

| Sample ID: UFIW-02S-20170412-FD | Collected: 4/12/2017 10:30:00 AM | Analysis Type: RES2 | Dilution: 10 | | | | | | |
|--|---|----------------------------|---------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 170 | J | 100 | MDL | 200 | MRL | ug/L | J | sp |

| Sample ID: UFIW-03I-20170412 | Collected: 4/12/2017 12:10:00 PM | Analysis Type: RES2 | Dilution: 10 | | | | | | |
|-------------------------------------|---|----------------------------|---------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 160 | J | 100 | MDL | 200 | MRL | ug/L | J | sp |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

| Sample ID: UFIW-02S-20170412 | Collected: 4/12/2017 10:20:00 AM | Analysis Type: RES | Dilution: 10 | | | | | | |
|-------------------------------------|---|---------------------------|---------------------|---------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 1.4 | | 0.20 | MDL | 0.50 | MRL | mg/L | J | fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181998-1

Laboratory: TA IRV

EDD Filename: 440-181998-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

4/12/2017 10:30:00

Sample ID: UFIW-02S-20170412-FD Collected: AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.58 | | 0.020 | MDL | 0.050 | MRL | mg/L | J | fd |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

4/12/2017 11:20:00

Sample ID: UFIW-02I-20170412 Collected: AM Analysis Type: RES/TOT Dilution: 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|-------|---------|-------|------------------|-------------|
| CHROMIUM | 0.0099 | J | 0.0050 | MDL | 0.010 | MRL | mg/L | J | sp |

4/12/2017 10:20:00

Sample ID: UFIW-02S-20170412 Collected: AM Analysis Type: RES/TOT Dilution: 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|-------|---------|-------|------------------|-------------|
| CHROMIUM | 0.018 | | 0.0050 | MDL | 0.010 | MRL | mg/L | J | fd |

4/12/2017 10:30:00

Sample ID: UFIW-02S-20170412-FD Collected: AM Analysis Type: RES/TOT Dilution: 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|-------|---------|-------|------------------|-------------|
| CHROMIUM | 0.025 | | 0.0050 | MDL | 0.010 | MRL | mg/L | J | fd |

4/12/2017 11:25:00

Sample ID: UFIW-04S-20170412 Collected: AM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 0.0034 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

4/12/2017 10:40:00

Sample ID: UFIW-01I-20170412 Collected: AM Analysis Type: RES/DIS Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| IRON | 78 | J | 40 | MDL | 100 | MRL | ug/L | J | sp |
| NIC EL | 5.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181998-1

Laboratory: TA IRV

EDD Filename: 440-181998-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: UFIW-02I-20170412 | | Collected: AM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/12/2017 11:20:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| INC | 13 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

| Sample ID: UFIW-02S-20170412 | | Collected: AM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/12/2017 10:20:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ANTIMON | 2.5 | U | 2.5 | MDL | 10 | MRL | ug/L | UJ | fd |
| ARSENIC | 13 | | 2.5 | MDL | 5.0 | MRL | ug/L | J | fd |
| NIC EL | 5.5 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| URANIUM | 41 | | 2.5 | MDL | 5.0 | MRL | ug/L | J | fd |

| Sample ID: UFIW-02S-20170412-FD | | Collected: AM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|--|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/12/2017 10:30:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ANTIMON | 3.1 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp, fd |
| ARSENIC | 18 | | 2.5 | MDL | 5.0 | MRL | ug/L | J | fd |
| NIC EL | 5.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| URANIUM | 68 | | 2.5 | MDL | 5.0 | MRL | ug/L | J | fd |

| Sample ID: UFIW-03I-20170412 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/12/2017 12:10:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ANTIMON | 3.0 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| IRON | 60 | J | 40 | MDL | 100 | MRL | ug/L | J | sp |
| INC | 13 | U F1 F2 | 13 | MDL | 100 | MRL | ug/L | UJ | ld |

| Sample ID: UFIW-03S-20170412 | | Collected: AM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/12/2017 10:55:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 43 | J | 40 | MDL | 100 | MRL | ug/L | J | sp |
| NIC EL | 3.2 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

| Sample ID: UFIW-04S-20170412 | | Collected: AM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 4/12/2017 11:25:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| NIC EL | 4.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181998-1

Laboratory: TA IRV

EDD Filename: 440-181998-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: UFMW-02S-20170412
 Collected: 4/12/2017 12:10:00 PM
 Analysis Type: RES/DIS
 Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| NIC EL | 2.6 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 3.4 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 84 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181998-1

Laboratory: TA IRV

EDD Filename: 440-181998-1

eQAPP Name: TetraTechInc_NERT_04282017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| f | Matrix Spike Precision |
| fd | Field Duplicate Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

5/15/2017 9:28:04 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-181999-1

Laboratory: TA IRV

EDD Filename: 440-181999-1

eQAPP Name: TetraTechInc_NERT_04282017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: UFIW-04I-20170412
 Collected: 4/12/2017 12:40:00 PM
 Analysis Type: RES/DIS
 Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 2.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| NIC EL | 3.1 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 2.5 | U F1 | 2.5 | MDL | 10 | MRL | ug/L | UJ | m |
| MANGANESE | 320 | F1 | 2.5 | MDL | 5.0 | MRL | ug/L | J- | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-181999-1

Laboratory: TA IRV

EDD Filename: 440-181999-1

eQAPP Name: TetraTechInc_NERT_04282017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Lower Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

5/15/2017 9:29:31 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-183557-1

Laboratory: TA IRV

EDD Filename: 440-183557-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID:CTMW-02D-20170503 **Collected:**5/3/2017 2:00:00 PM **Analysis Type:**RES **Dilution:** 5000
0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 1100000 | | 25000 | MDL | 50000 | MRL | ug/L | J | fd |

Sample ID:CTMW-02D-20170503-FD **Collected:**5/3/2017 2:00:00 PM **Analysis Type:**RES **Dilution:** 5000
0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 1800000 | | 25000 | MDL | 50000 | MRL | ug/L | J | fd |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID:CTMW-02D-20170503 **Collected:**5/3/2017 2:00:00 PM **Analysis Type:**RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.025 | U | 0.025 | MDL | 0.050 | MRL | mg/L | UJ | fd |

Sample ID:CTMW-02D-20170503-FD **Collected:**5/3/2017 2:00:00 PM **Analysis Type:**RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.025 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp, fd |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

Sample ID:CTMW-01D-20170503 **Collected:**5/3/2017 10:55:00 AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.030 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

Sample ID:CTMW-02D-20170503-FD **Collected:**5/3/2017 2:00:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Acetic acid | 0.29 | U F1 | 0.29 | MDL | 1.0 | MRL | mg/L | UJ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-183557-1

Laboratory: TA IRV

EDD Filename: 440-183557-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

Sample ID:CTMW-02D-20170503-FD **Collected:**5/3/2017 2:00:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Lactic Acid | 0.31 | U F1 | 0.31 | MDL | 1.0 | MRL | mg/L | UJ | m |
| n-Butyric acid | 0.26 | U F2 F1 | 0.26 | MDL | 1.0 | MRL | mg/L | UJ | m, ld |
| Propionic acid | 0.35 | U F1 | 0.35 | MDL | 1.0 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID:CTMW-01D-20170503 **Collected:**5/3/2017 10:55:00 AM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 0.96 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| COBALT | 0.77 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| INC | 6.7 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

Sample ID:CTMW-01S-20170503 **Collected:**5/3/2017 8:55:00 AM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| INC | 9.3 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

Sample ID:CTMW-02D-20170503 **Collected:**5/3/2017 2:00:00 PM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 1.0 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| COBALT | 0.81 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 1.8 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 9.3 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

Sample ID:CTMW-02D-20170503-FD **Collected:**5/3/2017 2:00:00 PM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 0.91 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| COBALT | 0.84 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 1.9 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 9.8 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-183557-1

Laboratory: TA IRV

EDD Filename: 440-183557-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID:CTMW-02D-20170503 **Collected:**5/3/2017 2:00:00 PM **Analysis Type:**RES **Dilution:** 25

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| 1,4-DICHLOROBEN ENE | 6.5 | J | 6.3 | MDL | 13 | MRL | ug/L | J | sp, fd |

Sample ID:CTMW-02D-20170503-FD **Collected:**5/3/2017 2:00:00 PM **Analysis Type:**RES **Dilution:** 25

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| 1,4-DICHLOROBEN ENE | 6.3 | U | 6.3 | MDL | 13 | MRL | ug/L | UJ | fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

5/30/2017 8:26:28 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-183557-1

Laboratory: TA IRV

EDD Filename: 440-183557-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| f | Matrix Spike Precision |
| fd | Field Duplicate Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

5/30/2017 8:26:28 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-183688-1

Laboratory: TA IRV

EDD Filename: 440-183688-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| | | | | | | | | | |
|-------------------------------------|-------------------|----------------------|-----------|----------------|---------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-04D-20170504 | | Collected: PM | | | Analysis Type: RES | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.037 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |
| Orthophosphorus as PO4 | 0.11 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J | sp |

| | | | | | | | | | |
|-------------------------------------|-------------------|----------------------|-----------|----------------|----------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-04D-20170504 | | Collected: PM | | | Analysis Type: RES2 | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.041 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| | | | | | | | | | |
|-------------------------------------|-------------------|----------------------|-----------|----------------|-------------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-04D-20170504 | | Collected: PM | | | Analysis Type: RE2/DIS | | | Dilution: 10 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 22000 | | 5.0 | MDL | 20 | MRL | ug/L | J+ | m |

| | | | | | | | | | |
|-------------------------------------|-------------------|----------------------|-----------|----------------|-------------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-04D-20170504 | | Collected: PM | | | Analysis Type: RE3/DIS | | | Dilution: 150 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| VANADIUM | 150 | U | 150 | MDL | 300 | MRL | ug/L | R | m |

| | | | | | | | | | |
|-------------------------------------|-------------------|----------------------|-----------|----------------|-------------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-04D-20170504 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COBALT | 0.50 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 1.5 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| SELENIUM | 3.3 | F1 | 0.50 | MDL | 2.0 | MRL | ug/L | J- | m |
| INC | 17 | J F1 | 2.5 | MDL | 20 | MRL | ug/L | J- | sp, m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-183688-1

Laboratory: TA IRV

EDD Filename: 440-183688-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID: CTMW-04D-20170504
 Collected: 5/4/2017 12:30:00 PM
 Analysis Type: RES
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| 1,3-DICHLOROBEN ENE | 0.34 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |
| BROMOFORM | 0.81 | J | 0.40 | MDL | 1.0 | MRL | ug/L | J | sp |
| CARBON TETRACHLORIDE | 0.46 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |
| TETRACHLOROETHENE | 0.36 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

5/30/2017 8:33:33 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-183688-1

Laboratory: TA IRV

EDD Filename: 440-183688-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

5/30/2017 8:33:33 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-183689-1

Laboratory: TA IRV

EDD Filename: 440-183689-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID:CTMW-02S-20170504 **Collected:**5/4/2017 1:00:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.15 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.46 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

5/4/2017 10:15:00

Sample ID:CTMW-04S-20170504 **Collected:**AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.049 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J- | sp, m |
| Orthophosphorus as PO4 | 0.15 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID:CTMW-02S-20170504 **Collected:**5/4/2017 1:00:00 PM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 1.6 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| SELENIUM | 1.6 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 18 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

5/4/2017 10:15:00

Sample ID:CTMW-04S-20170504 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 0.89 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| COPPER | 1.5 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 5.5 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID:CTMW-02S-20170504 **Collected:**5/4/2017 1:00:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| 1,2,3-TRICHLOROBEN ENE | 0.57 | J | 0.40 | MDL | 1.0 | MRL | ug/L | J | sp |
| BEN ENE | 0.37 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |
| TETRACHLOROETHENE | 0.28 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-183689-1

Laboratory: TA IRV

EDD Filename: 440-183689-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | | |
|-------------------------|----------|----------------|----|
| Method Category: | VOA | | |
| Method: | 8260B LL | Matrix: | AQ |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-183689-1

Laboratory: TA IRV

EDD Filename: 440-183689-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Lower Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-183810-1

Laboratory: TA IRV

EDD Filename: 440-183810-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID:CTMW-03D-20170505 **Collected:**5/5/2017 9:40:00 AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.044 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J- | sp, m |
| Orthophosphorus as PO4 | 0.14 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J- | sp, m |

Sample ID:CTMW-03S-20170505 **Collected:**5/5/2017 8:30:00 AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.081 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.25 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID:CTMW-03S-20170505 **Collected:**5/5/2017 8:30:00 AM **Analysis Type:**RES/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 15 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID:CTMW-03D-20170505 **Collected:**5/5/2017 9:40:00 AM **Analysis Type:**RE2/DIS **Dilution:** 100

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| VANADIUM | 100 | U | 100 | MDL | 200 | MRL | ug/L | R | m |

Sample ID:CTMW-03D-20170505 **Collected:**5/5/2017 9:40:00 AM **Analysis Type:**RE3/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| IRON | 9.1 | J | 8.0 | MDL | 20 | MRL | ug/L | J | sp |

Sample ID:CTMW-03D-20170505 **Collected:**5/5/2017 9:40:00 AM **Analysis Type:**RES/DIS **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| CHROMIUM | 14000 | | 2.5 | MDL | 10 | MRL | ug/L | J+ | m |
| COPPER | 4.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-183810-1

Laboratory: TA IRV

EDD Filename: 440-183810-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID:CTMW-03D-20170505 **Collected:**5/5/2017 9:40:00 AM **Analysis Type:**RES/DIS **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| SELENIUM | 5.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

Sample ID:CTMW-03S-20170505 **Collected:**5/5/2017 8:30:00 AM **Analysis Type:**RES/DIS **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| ALUMINUM | 26 | J B | 25 | MDL | 50 | MRL | ug/L | J | sp |
| NIC EL | 3.1 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 4.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID:CTMW-03D-20170505 **Collected:**5/5/2017 9:40:00 AM **Analysis Type:**RES **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| METH LENE CHLORIDE | 19 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

Sample ID:CTMW-03S-20170505 **Collected:**5/5/2017 8:30:00 AM **Analysis Type:**RES **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| METH LENE CHLORIDE | 18 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

5/30/2017 8:38:27 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-183810-1

Laboratory: TA IRV

EDD Filename: 440-183810-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-184556-1

Laboratory: TA IRV

EDD Filename: 440-184556-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 5220D | Matrix: AQ |

5/16/2017 2:10:00
Sample ID:CTMW-02S-20170516 **Collected:**PM **Analysis Type:**RES **Dilution:** 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| Chemical Oxygen Demand | 37 | J | 20 | MDL | 40 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

5/16/2017 11:45:00
Sample ID:CTMW-01D-20170516 **Collected:**AM **Analysis Type:**RES/TOT **Dilution:** 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| MANGANESE | 0.037 | J | 0.020 | MDL | 0.040 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

5/16/2017 11:45:00
Sample ID:CTMW-01D-20170516 **Collected:**AM **Analysis Type:**RE3/DIS **Dilution:** 250

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| VANADIUM | 250 | U | 250 | MDL | 500 | MRL | ug/L | R | m |

5/16/2017 11:45:00
Sample ID:CTMW-01D-20170516 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| CADMIUM | 0.25 | U F1 | 0.25 | MDL | 1.0 | MRL | ug/L | UJ | m |
| COBALT | 0.83 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 2.3 | F1 | 0.50 | MDL | 2.0 | MRL | ug/L | J- | m |
| MANGANESE | 58 | F1 | 0.50 | MDL | 1.0 | MRL | ug/L | J- | m |
| NIC EL | 6.6 | F1 | 0.50 | MDL | 2.0 | MRL | ug/L | J- | m |
| SELENIUM | 2.4 | F1 | 0.50 | MDL | 2.0 | MRL | ug/L | J- | m |
| INC | 9.5 | J F1 | 2.5 | MDL | 20 | MRL | ug/L | J- | sp, m |

5/16/2017 9:30:00
Sample ID:CTMW-01S-20170516 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 0.53 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| LEAD | 0.62 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| INC | 10 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-184556-1

Laboratory: TA IRV

EDD Filename: 440-184556-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: CTMW-02S-20170516
 Collected: 5/16/2017 2:10:00 PM
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| ALUMINUM | 6.3 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 13 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

6/12/2017 2:51:12 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-184556-1

Laboratory: TA IRV

EDD Filename: 440-184556-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

6/12/2017 2:51:12 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-184659-1

Laboratory: TA IRV

EDD Filename: 440-184659-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

Sample ID:CTMW-03D-20170517 Collected:PM 5/17/2017 12:20:00 Analysis Type:RES Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Chlorite | 10000 | U | 10000 | MDL | 20000 | MRL | ug/L | R | m |

Sample ID:CTMW-03D-20170517 Collected:PM 5/17/2017 12:20:00 Analysis Type:RES2 Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 3400000 | | 100000 | MDL | 200000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID:CTMW-03D-20170517 Collected:PM 5/17/2017 12:20:00 Analysis Type:RES Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 520000 | | 5000 | MDL | 10000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

Sample ID:CTMW-02D-20170517 Collected:AM 5/17/2017 9:30:00 Analysis Type:RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

Sample ID:CTMW-03D-20170517 Collected:PM 5/17/2017 12:20:00 Analysis Type:RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U F1 | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

Sample ID:CTMW-03S-20170517 Collected:AM 5/17/2017 9:50:00 Analysis Type:RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-184659-1

Laboratory: TA IRV

EDD Filename: 440-184659-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

| Sample ID: CTMW-04D-20170517 | | Collected: PM | | 5/17/2017 2:30:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|------|--------------------------|------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m | | |

| Sample ID: CTMW-04D-20170517-FD | | Collected: PM | | 5/17/2017 2:30:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|--|------------|----------------------|------|--------------------------|------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m | | |

| Sample ID: CTMW-04S-20170517 | | Collected: PM | | 5/17/2017 12:30:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|------|---------------------------|------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m | | |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-02D-20170517 | | Collected: AM | | 5/17/2017 9:30:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-------|--------------------------|-------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Orthophosphate as P | 0.064 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m | | |
| Orthophosphorus as PO4 | 0.19 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m | | |

| Sample ID: CTMW-02D-20170517 | | Collected: AM | | 5/17/2017 9:30:00 | | | | Analysis Type: RES2 | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-------|--------------------------|-------|---------|-------|----------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Phosphorus, Total | 0.030 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J- | sp, m | | |

| Sample ID: CTMW-03D-20170517 | | Collected: PM | | 5/17/2017 12:20:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-------|---------------------------|-------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Orthophosphate as P | 0.033 | J F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | sp, m | | |
| Orthophosphorus as PO4 | 0.10 | J F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | sp, m | | |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-184659-1

Laboratory: TA IRV

EDD Filename: 440-184659-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| | | | | | | | | | |
|-------------------------------------|-------------------|----------------------|-----------|----------------|----------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-03D-20170517 | | Collected: PM | | | Analysis Type: RES2 | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.025 | U F1 | 0.025 | MDL | 0.050 | MRL | mg/L | R | m |

| | | | | | | | | | |
|-------------------------------------|-------------------|----------------------|-----------|----------------|---------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-03S-20170517 | | Collected: AM | | | Analysis Type: RES | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.053 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.16 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| | | | | | | | | | |
|-------------------------------------|-------------------|----------------------|-----------|----------------|----------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-03S-20170517 | | Collected: AM | | | Analysis Type: RES2 | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.025 | U | 0.025 | MDL | 0.050 | MRL | mg/L | R | m |

| | | | | | | | | | |
|-------------------------------------|-------------------|----------------------|-----------|----------------|---------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-04D-20170517 | | Collected: PM | | | Analysis Type: RES | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.044 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J- | sp, m |
| Orthophosphorus as PO4 | 0.14 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J- | sp, m |

| | | | | | | | | | |
|-------------------------------------|-------------------|----------------------|-----------|----------------|----------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-04D-20170517 | | Collected: PM | | | Analysis Type: RES2 | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.025 | U | 0.025 | MDL | 0.050 | MRL | mg/L | R | m |

| | | | | | | | | | |
|--|-------------------|----------------------|-----------|----------------|---------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-04D-20170517-FD | | Collected: PM | | | Analysis Type: RES | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.058 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.18 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| | | | | | | | | | |
|--|-------------------|----------------------|-----------|----------------|----------------------------|----------------|--------------|-------------------------|--------------------|
| Sample ID: CTMW-04D-20170517-FD | | Collected: PM | | | Analysis Type: RES2 | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.025 | U | 0.025 | MDL | 0.050 | MRL | mg/L | R | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-184659-1

Laboratory: TA IRV

EDD Filename: 440-184659-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-04S-20170517 | Collected: PM | 5/17/2017 12:30:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.54 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 1.6 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTMW-04S-20170517 | Collected: PM | 5/17/2017 12:30:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.32 | | 0.025 | MDL | 0.050 | MRL | mg/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 5220D | Matrix: AQ |

| Sample ID: CTMW-03D-20170517 | Collected: PM | 5/17/2017 12:20:00 | Analysis Type: RES | Dilution: 2 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chemical Oxygen Demand | 20 | U F1 | 20 | MDL | 40 | MRL | mg/L | R | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

| Sample ID: CTMW-03D-20170517 | Collected: PM | 5/17/2017 12:20:00 | Analysis Type: RES | Dilution: 50 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Lactic Acid | 16 | U F1 | 16 | MDL | 50 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: CTMW-03D-20170517 | Collected: PM | 5/17/2017 12:20:00 | Analysis Type: RES/TOT | Dilution: 2 | | | | | |
|-------------------------------------|----------------------|---------------------------|-------------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 15 | | 0.0050 | MDL | 0.010 | MRL | mg/L | J+ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-184659-1

Laboratory: TA IRV

EDD Filename: 440-184659-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | |
| Method: | 6020 | Matrix: | | AQ | | | | | |

| Sample ID: CTMW-02D-20170517 | | 5/17/2017 9:30:00 | | | Collected: AM | | | Analysis Type: RES/DIS | | Dilution: 5 |
|-------------------------------------|------------|--------------------------|-----|---------|----------------------|---------|-------|-------------------------------|-------------|--------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| IRON | 82 | J | 40 | MDL | 100 | MRL | ug/L | J | sp | |
| NIC EL | 5.6 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |
| SELENIUM | 4.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |
| INC | 14 | J | 13 | MDL | 100 | MRL | ug/L | J | sp | |

| Sample ID: CTMW-03D-20170517 | | 5/17/2017 12:20:00 | | | Collected: PM | | | Analysis Type: RE2/DIS | | Dilution: 200 |
|-------------------------------------|------------|---------------------------|-----|---------|----------------------|---------|-------|-------------------------------|-------------|----------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| VANADIUM | 200 | U | 200 | MDL | 400 | MRL | ug/L | R | m | |

| Sample ID: CTMW-03D-20170517 | | 5/17/2017 12:20:00 | | | Collected: PM | | | Analysis Type: RES/DIS | | Dilution: 5 |
|-------------------------------------|------------|---------------------------|-----|---------|----------------------|---------|-------|-------------------------------|-------------|--------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| CHROMIUM | 15000 | | 2.5 | MDL | 10 | MRL | ug/L | J+ | m | |
| COPPER | 3.1 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |
| IRON | 42 | J | 40 | MDL | 100 | MRL | ug/L | J | sp | |
| NIC EL | 3.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |
| SELENIUM | 5.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |
| INC | 44 | J F1 | 13 | MDL | 100 | MRL | ug/L | J- | sp, m | |

| Sample ID: CTMW-03S-20170517 | | 5/17/2017 9:50:00 | | | Collected: AM | | | Analysis Type: RES/DIS | | Dilution: 5 |
|-------------------------------------|------------|--------------------------|-----|---------|----------------------|---------|-------|-------------------------------|-------------|--------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| ALUMINUM | 30 | J | 25 | MDL | 50 | MRL | ug/L | J | sp | |
| NIC EL | 3.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |
| SELENIUM | 3.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |
| INC | 22 | J | 13 | MDL | 100 | MRL | ug/L | J | sp | |

| Sample ID: CTMW-04D-20170517 | | 5/17/2017 2:30:00 | | | Collected: PM | | | Analysis Type: RES/DIS | | Dilution: 5 |
|-------------------------------------|------------|--------------------------|-----|---------|----------------------|---------|-------|-------------------------------|-------------|--------------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| IRON | 71 | J | 40 | MDL | 100 | MRL | ug/L | J | sp | |
| NIC EL | 3.5 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |
| SELENIUM | 2.5 | U | 2.5 | MDL | 10 | MRL | ug/L | UJ | fd | |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-184659-1

Laboratory: TA IRV

EDD Filename: 440-184659-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: CTMW-04D-20170517-FD | Collected: PM | 5/17/2017 2:30:00 | Analysis Type: RES/DIS | Dilution: 5 | | | | | |
|--|----------------------|--------------------------|-------------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 65 | J | 40 | MDL | 100 | MRL | ug/L | J | sp |
| NIC EL | 3.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 4.0 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp, fd |

| Sample ID: CTMW-04S-20170517 | Collected: PM | 5/17/2017 12:30:00 | Analysis Type: RES/DIS | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|-------------------------------|--------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| INC | 7.1 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

| Sample ID: CTMW-03D-20170517 | Collected: PM | 5/17/2017 12:20:00 | Analysis Type: RES/DIS | Dilution: 1000 | | | | | |
|-------------------------------------|----------------------|---------------------------|-------------------------------|-----------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 16000 | | 250 | MDL | 2000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

| Sample ID: CTMW-02D-20170517 | Collected: AM | 5/17/2017 9:30:00 | Analysis Type: RES | Dilution: 20 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| 1,4-DICHLOROBEN ENE | 6.7 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |
| METH LENE CHLORIDE | 29 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

| Sample ID: CTMW-02D-20170517-TB | Collected: PM | 5/17/2017 3:00:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|--|----------------------|--------------------------|---------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 1.8 | J | 0.88 | MDL | 2.0 | MRL | ug/L | J | sp |

| Sample ID: CTMW-03D-20170517 | Collected: PM | 5/17/2017 12:20:00 | Analysis Type: RES | Dilution: 20 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 26 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-184659-1

Laboratory: TA IRV

EDD Filename: 440-184659-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID: CTMW-03S-20170517
 Collected: 5/17/2017 9:50:00 AM
 Analysis Type: RES
 Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| METH LENE CHLORIDE | 17 | J | 8.8 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

6/12/2017 3:15:06 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-184659-1

Laboratory: TA IRV

EDD Filename: 440-184659-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| d | Laboratory Control Spike Upper Estimation |
| fd | Field Duplicate Precision |
| l | Laboratory Control Spike Upper Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

6/12/2017 3:15:06 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185475-1

Laboratory: TA IRV

EDD Filename: 440-185475-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-01D-20170531 | Collected: PM | 5/31/2017 2:10:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.051 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.16 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTMW-01D-20170531 | Collected: PM | 5/31/2017 2:10:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.035 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J- | sp, m |

| Sample ID: CTMW-01S-20170531 | Collected: AM | 5/31/2017 11:40:00 | Analysis Type: RES | Dilution: 2 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 1.2 | | 0.040 | MDL | 0.10 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 3.7 | | 0.12 | MDL | 0.30 | MRL | mg/L | J- | m |

| Sample ID: CTMW-01S-20170531 | Collected: AM | 5/31/2017 11:40:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.49 | | 0.025 | MDL | 0.050 | MRL | mg/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: CTMW-01D-20170531 | Collected: PM | 5/31/2017 2:10:00 | Analysis Type: RES/TOT | Dilution: 2 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 0.15 | J | 0.10 | MDL | 0.20 | MRL | mg/L | J | sp |
| MANGANESE | 0.027 | J | 0.020 | MDL | 0.040 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: CTMW-01D-20170531 | Collected: PM | 5/31/2017 2:10:00 | Analysis Type: RES/DIS | Dilution: 10 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| NIC EL | 6.3 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185475-1

Laboratory: TA IRV

EDD Filename: 440-185475-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | Matrix: | | AQ | | | | | | |

Sample ID: CTMW-01S-20170531 Collected: 5/31/2017 11:40:00 AM Analysis Type: RES/DIS Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| NIC EL | 13 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

| | | | | | | | | | | |
|-------------------------|----------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | VOA | | | | | | | | | |
| Method: | 8260B LL | Matrix: | | AQ | | | | | | |

Sample ID: CTMW-01S-20170531 Collected: 5/31/2017 11:40:00 AM Analysis Type: RES Dilution: 25

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| METH LENE CHLORIDE | 45 | J B | 22 | MDL | 50 | MRL | ug/L | J+ | bl |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

6/22/2017 2:55:09 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185475-1

Laboratory: TA IRV

EDD Filename: 440-185475-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| m | Matrix Spike Lower Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

6/22/2017 2:55:09 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185562-1

Laboratory: TA IRV

EDD Filename: 440-185562-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

Sample ID:CTMW-03D-20170601 Collected:6/1/2017 2:30:00 PM Analysis Type:RES Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Chlorite | 10000 | U | 10000 | MDL | 20000 | MRL | ug/L | R | m |

Sample ID:CTMW-03D-20170601 Collected:6/1/2017 2:30:00 PM Analysis Type:RES2 Dilution: 2000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 3500000 | | 200000 | MDL | 400000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID:CTMW-03D-20170601 Collected:6/1/2017 2:30:00 PM Analysis Type:RES Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 570000 | | 5000 | MDL | 10000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

Sample ID:CTMW-02D-20170601 Collected:6/1/2017 9:10:00 AM Analysis Type:RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

Sample ID:CTMW-02D-20170601-FD Collected:6/1/2017 9:30:00 AM Analysis Type:RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

Sample ID:CTMW-02S-20170601 Collected:6/1/2017 3:35:00 PM Analysis Type:RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185562-1

Laboratory: TA IRV

EDD Filename: 440-185562-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

Sample ID:CTMW-03D-20170601 **Collected:**6/1/2017 2:30:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U F1 | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

6/1/2017 11:00:00

Sample ID:CTMW-03S-20170601 **Collected:**AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID:CTMW-02D-20170601 **Collected:**6/1/2017 9:10:00 AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.065 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.20 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

Sample ID:CTMW-02D-20170601 **Collected:**6/1/2017 9:10:00 AM **Analysis Type:**RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.029 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J- | sp, m |

Sample ID:CTMW-02D-20170601-FD **Collected:**6/1/2017 9:30:00 AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.065 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.20 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

Sample ID:CTMW-02D-20170601-FD **Collected:**6/1/2017 9:30:00 AM **Analysis Type:**RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.029 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J- | sp, m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185562-1

Laboratory: TA IRV

EDD Filename: 440-185562-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID:CTMW-02S-20170601 **Collected:**6/1/2017 3:35:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.27 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.81 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

Sample ID:CTMW-02S-20170601 **Collected:**6/1/2017 3:35:00 PM **Analysis Type:**RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.26 | | 0.025 | MDL | 0.050 | MRL | mg/L | J- | m |

Sample ID:CTMW-03D-20170601 **Collected:**6/1/2017 2:30:00 PM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.031 | J F 1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | sp, m |
| Orthophosphorus as PO4 | 0.094 | J F 1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | sp, m |

Sample ID:CTMW-03D-20170601 **Collected:**6/1/2017 2:30:00 PM **Analysis Type:**RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.025 | U F 1 | 0.025 | MDL | 0.050 | MRL | mg/L | UJ | m |

6/1/2017 11:00:00

Sample ID:CTMW-03S-20170601 **Collected:**AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.059 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.18 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

6/1/2017 11:00:00

Sample ID:CTMW-03S-20170601 **Collected:**AM **Analysis Type:**RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.028 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J- | sp, m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185562-1

Laboratory: TA IRV

EDD Filename: 440-185562-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 5220D | Matrix: AQ |

Sample ID:CTMW-03D-20170601 Collected:6/1/2017 2:30:00 PM Analysis Type:RES Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|----|---------|-----|---------|-------|------------------|-------------|
| Chemical Oxygen Demand | 50 | U F1 | 50 | MDL | 100 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID:CTMW-02D-20170601 Collected:6/1/2017 9:10:00 AM Analysis Type:RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-------|---------|------|---------|-------|------------------|-------------|
| IRON | 0.11 | | 0.050 | MDL | 0.10 | MRL | mg/L | J | fd |

Sample ID:CTMW-02D-20170601-FD Collected:6/1/2017 9:30:00 AM Analysis Type:RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-------|---------|------|---------|-------|------------------|-------------|
| IRON | 0.051 | J | 0.050 | MDL | 0.10 | MRL | mg/L | J | sp, fd |

Sample ID:CTMW-03D-20170601 Collected:6/1/2017 2:30:00 PM Analysis Type:RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 15 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J+ | m |
| MANGANESE | 0.019 | J | 0.010 | MDL | 0.020 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID:CTMW-02D-20170601 Collected:6/1/2017 9:10:00 AM Analysis Type:RES/DIS Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| NIC EL | 6.5 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

Sample ID:CTMW-02D-20170601-FD Collected:6/1/2017 9:30:00 AM Analysis Type:RES/DIS Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| NIC EL | 5.5 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185562-1

Laboratory: TA IRV

EDD Filename: 440-185562-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID:CTMW-02S-20170601 **Collected:**6/1/2017 3:35:00 PM **Analysis Type:**RE2/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| INC | 5.1 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

Sample ID:CTMW-02S-20170601 **Collected:**6/1/2017 3:35:00 PM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| ALUMINUM | 8.7 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |

Sample ID:CTMW-03D-20170601 **Collected:**6/1/2017 2:30:00 PM **Analysis Type:**RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| ARSENIC | 120 | F1 | 5.0 | MDL | 10 | MRL | ug/L | J+ | m |
| CHROMIUM | 16000 | | 5.0 | MDL | 20 | MRL | ug/L | J+ | m |
| NIC EL | 5.7 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| VANADIUM | 10 | U F 1 L | 10 | MDL | 20 | MRL | ug/L | R | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID:CTMW-03D-20170601 **Collected:**6/1/2017 2:30:00 PM **Analysis Type:**RES/DIS **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|-----|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 15000 | | 250 | MDL | 2000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID:CTMW-02D-20170601 **Collected:**6/1/2017 9:10:00 AM **Analysis Type:**RES **Dilution:** 40

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| 1,2-DICHLOROBEN ENE | 19 | J | 10 | MDL | 20 | MRL | ug/L | J | sp |
| 1,4-DICHLOROBEN ENE | 10 | U | 10 | MDL | 20 | MRL | ug/L | UJ | fd |
| METH LENE CHLORIDE | 38 | J | 35 | MDL | 80 | MRL | ug/L | J | sp, fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185562-1

Laboratory: TA IRV

EDD Filename: 440-185562-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID:CTMW-02D-20170601-FD **Collected:**6/1/2017 9:30:00 AM **Analysis Type:**RES **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| 1,4-DICHLOROBEN ENE | 7.2 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp, fd |
| METH LENE CHLORIDE | 22 | J | 18 | MDL | 40 | MRL | ug/L | J | sp, fd |

Sample ID:CTMW-02S-20170601 **Collected:**6/1/2017 3:35:00 PM **Analysis Type:**RES **Dilution:** 2.5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| ACETONE | 47 | J | 25 | MDL | 50 | MRL | ug/L | J | sp |
| METH LENE CHLORIDE | 4.3 | J B | 2.2 | MDL | 5.0 | MRL | ug/L | J+ | bl |

Sample ID:CTMW-03D-20170601 **Collected:**6/1/2017 2:30:00 PM **Analysis Type:**RES **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| CHLOROFORM | 1400 | | 2.5 | MDL | 5.0 | MRL | ug/L | J- | m |
| METH LENE CHLORIDE | 11 | J | 8.8 | MDL | 20 | MRL | ug/L | J | sp |
| TRICHLOROETHENE | 2.5 | J | 2.5 | MDL | 5.0 | MRL | ug/L | J | sp |

Sample ID:CTMW-03S-20170601 **Collected:**6/1/2017 11:00:00 AM **Analysis Type:**RES **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| METH LENE CHLORIDE | 18 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

Sample ID:Trip Blank **Collected:**6/1/2017 8:30:00 AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| CHLOROFORM | 0.29 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185562-1

Laboratory: TA IRV

EDD Filename: 440-185562-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| bl | Method Blank Contamination |
| d | Laboratory Control Spike Upper Estimation |
| fd | Field Duplicate Precision |
| l | Laboratory Control Spike Upper Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185643-1

Laboratory: TA IRV

EDD Filename: 440-185643-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | |
| Method: | 6010B | Matrix: | | AQ | | | | | |

Sample ID: CTMW-04D-20170602 Collected: 6/2/2017 10:10:00 AM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-------|---------|------|---------|-------|------------------|-------------|
| IRON | 0.084 | J | 0.050 | MDL | 0.10 | MRL | mg/L | J | sp |

| | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | |
| Method: | 6020 | Matrix: | | AQ | | | | | |

Sample ID: CTMW-04D-20170602 Collected: 6/2/2017 10:10:00 AM Analysis Type: RES/DIS Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| NIC EL | 5.8 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

| | | | | | | | | | |
|-------------------------|----------|----------------|--|----|--|--|--|--|--|
| Method Category: | VOA | | | | | | | | |
| Method: | 8260B LL | Matrix: | | AQ | | | | | |

Sample ID: CTMW-04D-20170602 Collected: 6/2/2017 10:10:00 AM Analysis Type: RES Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| METH LENE CHLORIDE | 24 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185643-1

Laboratory: TA IRV

EDD Filename: 440-185643-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185644-1

Laboratory: TA IRV

EDD Filename: 440-185644-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID:CTMW-04S-20170602 Collected:6/2/2017 8:15:00 AM Analysis Type:RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.067 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.21 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

Sample ID:CTMW-04S-20170602 Collected:6/2/2017 8:15:00 AM Analysis Type:RES2 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.41 | F1 | 0.025 | MDL | 0.050 | MRL | mg/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID:CTMW-04S-20170602 Collected:6/2/2017 8:15:00 AM Analysis Type:RE2/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| INC | 11 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID:CTMW-04S-20170602 Collected:6/2/2017 8:15:00 AM Analysis Type:RES Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| METH LENE CHLORIDE | 9.7 | J | 8.8 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185644-1

Laboratory: TA IRV

EDD Filename: 440-185644-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Lower Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185751-1

Laboratory: TA IRV

EDD Filename: 440-185751-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

Sample ID: CTMW-05D-45.0-20170605 Collected: 6/5/2017 11:27:00 AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Nitrate as NO3 | 4.0 | | 0.25 | MDL | 0.50 | MRL | mg/L | J- | h |

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

Sample ID: CTMW-05D-25.0-20170605 Collected: 6/5/2017 10:36:00 AM Analysis Type: RES/DIS Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 1400000 | | 40000 | MDL | 160000 | MRL | ug/ g | J- | s |

Sample ID: CTMW-05D-30.0-20170605 Collected: 6/5/2017 10:46:00 AM Analysis Type: RES/DIS Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 1800000 | | 43000 | MDL | 170000 | MRL | ug/ g | J- | s |

Sample ID: CTMW-05D-35.0-20170605 Collected: 6/5/2017 11:00:00 AM Analysis Type: RES/DIS Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2300000 | | 43000 | MDL | 170000 | MRL | ug/ g | J- | s |

Sample ID: CTMW-05D-40.0-20170605 Collected: 6/5/2017 11:16:00 AM Analysis Type: RES/DIS Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 1300000 | | 37000 | MDL | 150000 | MRL | ug/ g | J- | s |

Sample ID: CTMW-05D-45.0-20170605 Collected: 6/5/2017 11:27:00 AM Analysis Type: RES/DIS Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2600000 | | 86000 | MDL | 340000 | MRL | ug/ g | J- | s |

Sample ID: CTMW-05D-50.0-20170605 Collected: 6/5/2017 11:37:00 AM Analysis Type: RES/DIS Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2200000 | | 77000 | MDL | 310000 | MRL | ug/ g | J- | s |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185751-1

Laboratory: TA IRV

EDD Filename: 440-185751-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: SO |

Sample ID:CTMW-05D-0.5-20170605 Collected:6/5/2017 9:45:00 AM Analysis Type:RES/DIS Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|------|---------|-------|------------------|-------------|
| PERCHLORATE | 1.6 | F1 | 0.050 | MDL | 0.21 | MRL | mg/ g | J+ | m |

6/5/2017 10:20:00

Sample ID:CTMW-05D-15.0-20170605 Collected:AM Analysis Type:RES/DIS Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 940 | | 10 | MDL | 42 | MRL | mg/ g | J | fd |

6/5/2017 10:21:00

Sample ID:CTMW-05D-15.0-20170605-FD Collected:AM Analysis Type:RES/DIS Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 310 | | 11 | MDL | 46 | MRL | mg/ g | J | fd |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B_Leach | Matrix: AQ |

6/5/2017 11:27:00

Sample ID:CTMW-05D-45.0-20170605 Collected:AM Analysis Type:RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| SODIUM | 260 | | 2.5 | MDL | 5.0 | MRL | mg/L | J- | m, m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: SO |

6/5/2017 11:27:00

Sample ID:CTMW-05D-45.0-20170605 Collected:AM Analysis Type:RES/TOT Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 0.54 | J F1 | 0.46 | MDL | 1.7 | MRL | mg/ g | J- | sp, m |
| SELENIUM | 1.1 | J | 0.34 | MDL | 1.7 | MRL | mg/ g | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

6/27/2017 4:06:45 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185751-1

Laboratory: TA IRV

EDD Filename: 440-185751-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| Sample ID:CTMW-05D-0.5-20170605 Collected:6/5/2017 9:45:00 AM Analysis Type:RES Dilution: 3 | | | | | | | | | |
| Chromium, hexavalent | 0.92 | | 0.16 | MDL | 0.31 | MRL | mg/ g | J- | h |
| 6/5/2017 10:15:00 | | | | | | | | | |
| Sample ID:CTMW-05D-10.0-20170605 Collected:AM Analysis Type:RES Dilution: 3 | | | | | | | | | |
| Chromium, hexavalent | 0.18 | U | 0.18 | MDL | 0.35 | MRL | mg/ g | UJ | h |
| 6/5/2017 10:20:00 | | | | | | | | | |
| Sample ID:CTMW-05D-15.0-20170605 Collected:AM Analysis Type:RES Dilution: 3 | | | | | | | | | |
| Chromium, hexavalent | 0.16 | U | 0.16 | MDL | 0.32 | MRL | mg/ g | UJ | h |
| 6/5/2017 10:21:00 | | | | | | | | | |
| Sample ID:CTMW-05D-15.0-20170605-FD Collected:AM Analysis Type:RES Dilution: 3 | | | | | | | | | |
| Chromium, hexavalent | 0.17 | U | 0.17 | MDL | 0.34 | MRL | mg/ g | UJ | h |
| 6/5/2017 10:36:00 | | | | | | | | | |
| Sample ID:CTMW-05D-25.0-20170605 Collected:AM Analysis Type:RES Dilution: 3 | | | | | | | | | |
| Chromium, hexavalent | 2.3 | | 0.24 | MDL | 0.47 | MRL | mg/ g | J- | h |
| 6/5/2017 10:46:00 | | | | | | | | | |
| Sample ID:CTMW-05D-30.0-20170605 Collected:AM Analysis Type:RES Dilution: 3 | | | | | | | | | |
| Chromium, hexavalent | 4.5 | | 0.25 | MDL | 0.50 | MRL | mg/ g | J- | h |
| 6/5/2017 11:00:00 | | | | | | | | | |
| Sample ID:CTMW-05D-35.0-20170605 Collected:AM Analysis Type:RES Dilution: 3 | | | | | | | | | |
| Chromium, hexavalent | 2.7 | | 0.26 | MDL | 0.52 | MRL | mg/ g | J- | h |
| 6/5/2017 11:16:00 | | | | | | | | | |
| Sample ID:CTMW-05D-40.0-20170605 Collected:AM Analysis Type:RES Dilution: 3 | | | | | | | | | |
| Chromium, hexavalent | 4.8 | | 0.22 | MDL | 0.44 | MRL | mg/ g | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185751-1

Laboratory: TA IRV

EDD Filename: 440-185751-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

| Sample ID: CTMW-05D-45.0-20170605 | | Collected: AM | | 6/5/2017 11:27:00 | | Analysis Type: RES | | Dilution: 3 | |
|--|------------|----------------------|------|--------------------------|------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 10 | | 0.25 | MDL | 0.51 | MRL | mg/ g | J- | h |

| Sample ID: CTMW-05D-5.0-20170605 | | Collected: 6/5/2017 9:55:00 AM | | 6/5/2017 11:27:00 | | Analysis Type: RES | | Dilution: 3 | |
|---|------------|---------------------------------------|------|--------------------------|------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 0.23 | J | 0.17 | MDL | 0.33 | MRL | mg/ g | J- | sp, h |

| Sample ID: CTMW-05D-50.0-20170605 | | Collected: AM | | 6/5/2017 11:37:00 | | Analysis Type: RES | | Dilution: 3 | |
|--|------------|----------------------|------|--------------------------|------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 7.6 | | 0.23 | MDL | 0.46 | MRL | mg/ g | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185751-1

Laboratory: TA IRV

EDD Filename: 440-185751-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| bl | Method Blank Contamination |
| e | Sampling to Analysis Estimation |
| fd | Field Duplicate Precision |
| h | Sampling to Analysis Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| s | Surrogate/Tracer Recovery Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185844-1

Laboratory: TA IRV

EDD Filename: 440-185844-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

Sample ID:CTMW-05D-55.0-20170605
Collected:AM
6/5/2017 11:54:00
Analysis Type:RES/DIS
Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 1300000 | | 34000 | MDL | 140000 | MRL | ug/ g | J+ | s |

Sample ID:CTMW-05D-60.0-20170605
Collected:PM
6/5/2017 12:05:00
Analysis Type:RES/DIS
Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2900000 | | 81000 | MDL | 320000 | MRL | ug/ g | J- | s |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

Sample ID:CTMW-05D-55.0-20170605
Collected:AM
6/5/2017 11:54:00
Analysis Type:RES
Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 5.5 | | 0.20 | MDL | 0.41 | MRL | mg/ g | J- | h |

Sample ID:CTMW-05D-60.0-20170605
Collected:PM
6/5/2017 12:05:00
Analysis Type:RES
Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 1.6 | | 0.24 | MDL | 0.48 | MRL | mg/ g | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185844-1

Laboratory: TA IRV

EDD Filename: 440-185844-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|--|
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| s | Surrogate/Tracer Recovery Lower Rejection |
| s | Surrogate/Tracer Recovery Upper Estimation |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185847-1

Laboratory: TA IRV

EDD Filename: 440-185847-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

6/5/2017 10:27:00
Sample ID:CTMW-05D-20.0-20170605 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| Nitrate as NO3 | 44 | | 2.5 | MDL | 5.0 | MRL | mg/L | J- | h |

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

6/5/2017 10:27:00
Sample ID:CTMW-05D-20.0-20170605 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 100

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-------|---------|-------|------------------|-------------|
| Chlorate | 270000 | | 6600 | MDL | 27000 | MRL | ug/ g | J- | s |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: SO |

6/5/2017 10:27:00
Sample ID:CTMW-05D-20.0-20170605 **Collected:**AM **Analysis Type:**RES/TOT **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| SELENIUM | 1.0 | J | 0.26 | MDL | 1.3 | MRL | mg/ g | J | sp |
| SILVER | 0.19 | J | 0.13 | MDL | 0.66 | MRL | mg/ g | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

6/5/2017 10:27:00
Sample ID:CTMW-05D-20.0-20170605 **Collected:**AM **Analysis Type:**RES **Dilution:** 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 8.0 | | 0.20 | MDL | 0.40 | MRL | mg/ g | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185847-1

Laboratory: TA IRV

EDD Filename: 440-185847-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|--|
| bl | Method Blank Contamination |
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| s | Surrogate/Tracer Recovery Lower Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

6/28/2017 8:59:37 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185869-1

Laboratory: TA IRV

EDD Filename: 440-185869-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

| Sample ID: CTMW-06D-0.5-20170606 | | | Collected: 6/6/2017 7:46:00 AM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|---|------------|----------|---------------------------------------|---------|------|-------------------------------|-------|------------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| Chlorate | 2800 | F1 | 270 | MDL | 1100 | MRL | ug/ g | J- | m, m | |

| Sample ID: CTMW-06D-25.0-20170606 | | | Collected: 6/6/2017 8:30:00 AM | | | Analysis Type: RES/DIS | | | Dilution: 200 | |
|--|------------|----------|---------------------------------------|---------|-------|-------------------------------|-------|------------------|----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| Chlorate | 980000 | | 21000 | MDL | 86000 | MRL | ug/ g | J- | s | |

| Sample ID: CTMW-06D-30.0-20170606 | | | Collected: 6/6/2017 8:42:00 AM | | | Analysis Type: RES/DIS | | | Dilution: 500 | |
|--|------------|----------|---------------------------------------|---------|--------|-------------------------------|-------|------------------|----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| Chlorate | 1400000 | | 45000 | MDL | 180000 | MRL | ug/ g | J- | s | |

| Sample ID: CTMW-06D-35.0-20170606 | | | Collected: 6/6/2017 8:49:00 AM | | | Analysis Type: RES/DIS | | | Dilution: 500 | |
|--|------------|----------|---------------------------------------|---------|--------|-------------------------------|-------|------------------|----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| Chlorate | 1300000 | | 37000 | MDL | 150000 | MRL | ug/ g | J- | s | |

| Sample ID: CTMW-06D-40.0-20170606 | | | Collected: 6/6/2017 9:00:00 AM | | | Analysis Type: RES/DIS | | | Dilution: 200 | |
|--|------------|----------|---------------------------------------|---------|-------|-------------------------------|-------|------------------|----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| Chlorate | 760000 | | 16000 | MDL | 62000 | MRL | ug/ g | J | m, s | |

| Sample ID: CTMW-06D-43.5-20170606 | | | Collected: 6/6/2017 9:05:00 AM | | | Analysis Type: RES/DIS | | | Dilution: 500 | |
|--|------------|----------|---------------------------------------|---------|--------|-------------------------------|-------|------------------|----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| Chlorate | 2300000 | | 41000 | MDL | 160000 | MRL | ug/ g | J- | s | |

| Sample ID: CTMW-06D-45.0-20170606 | | | Collected: 6/6/2017 9:07:00 AM | | | Analysis Type: RES/DIS | | | Dilution: 500 | |
|--|------------|----------|---------------------------------------|---------|--------|-------------------------------|-------|------------------|----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| Chlorate | 2500000 | | 42000 | MDL | 170000 | MRL | ug/ g | J- | m, s | |

| Sample ID: CTMW-06D-50.0-20170606 | | | Collected: 6/6/2017 9:35:00 AM | | | Analysis Type: RES/DIS | | | Dilution: 500 | |
|--|------------|----------|---------------------------------------|---------|--------|-------------------------------|-------|------------------|----------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| Chlorate | 2000000 | | 37000 | MDL | 150000 | MRL | ug/ g | J- | s | |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185869-1

Laboratory: TA IRV

EDD Filename: 440-185869-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

Sample ID:CTMW-06D-55.0-20170606 Collected:6/6/2017 9:43:00 AM Analysis Type:RES/DIS Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 2900000 | | 39000 | MDL | 160000 | MRL | ug/ g | J- | s |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: SO |

Sample ID:CTMW-06D-45.0-20170606 Collected:6/6/2017 9:07:00 AM Analysis Type:RES/DIS Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 670 | | 8.0 | MDL | 34 | MRL | mg/ g | J+ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: SO |

Sample ID:CTMW-06D-20.0-20170606 Collected:6/6/2017 8:17:00 AM Analysis Type:RES/TOT Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| BER LLIUM | 0.21 | J | 0.18 | MDL | 0.35 | MRL | mg/ g | J | sp |
| SELENIUM | 0.50 | J | 0.24 | MDL | 1.2 | MRL | mg/ g | J | sp |
| INC | 9.0 | J | 5.9 | MDL | 12 | MRL | mg/ g | J | sp |

Sample ID:CTMW-06D-43.5-20170606 Collected:6/6/2017 9:05:00 AM Analysis Type:RES/TOT Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| MOL BDENUM | 1.3 | J | 0.81 | MDL | 1.6 | MRL | mg/ g | J | sp |
| SELENIUM | 1.4 | J | 0.32 | MDL | 1.6 | MRL | mg/ g | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

Sample ID:CTMW-06D-25.0-20170606 Collected:6/6/2017 8:30:00 AM Analysis Type:RES Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.32 | U F1 | 0.32 | MDL | 0.63 | MRL | mg/ g | UJ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185869-1

Laboratory: TA IRV

EDD Filename: 440-185869-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

Sample ID:CTMW-06D-30.0-20170606 **Collected:**6/6/2017 8:42:00 AM **Analysis Type:**RES **Dilution:** 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 1.7 | | 0.26 | MDL | 0.53 | MRL | mg/ g | J- | h |

Sample ID:CTMW-06D-35.0-20170606 **Collected:**6/6/2017 8:49:00 AM **Analysis Type:**RES **Dilution:** 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 2.9 | | 0.22 | MDL | 0.45 | MRL | mg/ g | J- | h |

Sample ID:CTMW-06D-40.0-20170606 **Collected:**6/6/2017 9:00:00 AM **Analysis Type:**RES **Dilution:** 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 5.4 | | 0.24 | MDL | 0.47 | MRL | mg/ g | J- | h |

Sample ID:CTMW-06D-43.5-20170606 **Collected:**6/6/2017 9:05:00 AM **Analysis Type:**RES **Dilution:** 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 2.8 | | 0.25 | MDL | 0.49 | MRL | mg/ g | J- | h |

Sample ID:CTMW-06D-45.0-20170606 **Collected:**6/6/2017 9:07:00 AM **Analysis Type:**RES **Dilution:** 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 9.8 | | 0.25 | MDL | 0.50 | MRL | mg/ g | J- | h |

Sample ID:CTMW-06D-50.0-20170606 **Collected:**6/6/2017 9:35:00 AM **Analysis Type:**RES **Dilution:** 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 9.0 | | 0.22 | MDL | 0.44 | MRL | mg/ g | J- | h |

Sample ID:CTMW-06D-55.0-20170606 **Collected:**6/6/2017 9:43:00 AM **Analysis Type:**RES **Dilution:** 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 3.7 | | 0.24 | MDL | 0.47 | MRL | mg/ g | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-185869-1

Laboratory: TA IRV

EDD Filename: 440-185869-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| bl | Method Blank Contamination |
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| s | Surrogate/Tracer Recovery Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

6/28/2017 9:03:12 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185875-1

Laboratory: TA IRV

EDD Filename: 440-185875-1

eQAPP Name: TetraTechInc_NERT_05232017

| | | |
|-------------------------|--------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B_Leach | Matrix: SO |

Sample ID: CTMW-06D-60.0-20170606
 Collected: AM
 6/6/2017 10:00:00
 Analysis Type: RES/DIS
 Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 3000000 | | 74000 | MDL | 300000 | MRL | ug/ g | J- | s |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: SO |

Sample ID: CTMW-06D-60.0-20170606
 Collected: AM
 6/6/2017 10:00:00
 Analysis Type: RES/TOT
 Dilution: 3

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 12 | | 0.22 | MDL | 0.44 | MRL | mg/ g | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

6/28/2017 9:04:37 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-185875-1

Laboratory: TA IRV

EDD Filename: 440-185875-1

eQAPP Name: TetraTechInc_NERT_05232017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| s | Surrogate/Tracer Recovery Lower Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

6/28/2017 9:04:37 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-186792-1

Laboratory: TA IRV

EDD Filename: 440-186792-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFMW-011-20170619
 Collected: 6/19/2017 10:00:00 AM
 Analysis Type: RES/TOT
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| Chromium, hexavalent | 0.53 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-186792-1

Laboratory: TA IRV

EDD Filename: 440-186792-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

7/3/2017 8:15:22 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-186795-1

Laboratory: TA IRV

EDD Filename: 440-186795-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: UFMW-02S-20170619
 Collected: 6/19/2017 12:45:00 PM
 Analysis Type: RES/TOT
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| CHROMIUM | 0.0043 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-186795-1

Laboratory: TA IRV

EDD Filename: 440-186795-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

7/10/2017 1:40:30 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-186829-1

Laboratory: TA IRV

EDD Filename: 440-186829-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

6/19/2017 8:55:00
Sample ID:CTMW-01D-20170619 **Collected:**AM **Analysis Type:**RES **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Chlorite | 10000 | U | 10000 | MDL | 20000 | MRL | ug/L | R | m |

6/19/2017 8:55:00
Sample ID:CTMW-01D-20170619 **Collected:**AM **Analysis Type:**RES2 **Dilution:** 2000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 4300000 | | 200000 | MDL | 400000 | MRL | ug/L | J | m, m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

6/19/2017 8:55:00
Sample ID:CTMW-01D-20170619 **Collected:**AM **Analysis Type:**RES **Dilution:** 5000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 1400000 | | 25000 | MDL | 50000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

6/19/2017 8:55:00
Sample ID:CTMW-01D-20170619 **Collected:**AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U F1 | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

6/19/2017 7:05:00
Sample ID:CTMW-01S-20170619 **Collected:**AM **Analysis Type:**RES **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 190 | | 2.0 | MDL | 4.0 | MRL | mg/L | J- | m |

6/19/2017 11:05:00
Sample ID:CTMW-02D-20170619 **Collected:**AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-186829-1

Laboratory: TA IRV

EDD Filename: 440-186829-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

| Sample ID: CTMW-02D-20170619-FD | Collected: AM | 6/19/2017 11:05:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|--|----------------------|--------------------|---------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-01D-20170619 | Collected: AM | 6/19/2017 8:55:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|-------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.085 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.26 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTMW-01D-20170619 | Collected: AM | 6/19/2017 8:55:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|-------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.028 | J F1 | 0.025 | MDL | 0.050 | MRL | mg/L | J- | sp, m |

| Sample ID: CTMW-01S-20170619 | Collected: AM | 6/19/2017 7:05:00 | Analysis Type: RES | Dilution: 50 | | | | | |
|-------------------------------------|----------------------|-------------------|---------------------------|---------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 18 | | 1.0 | MDL | 2.5 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 54 | | 3.0 | MDL | 7.5 | MRL | mg/L | J- | m |

| Sample ID: CTMW-01S-20170619 | Collected: AM | 6/19/2017 7:05:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|-------------------|----------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 24 | | 1.3 | MDL | 2.5 | MRL | mg/L | J- | m |

| Sample ID: CTMW-02D-20170619 | Collected: AM | 6/19/2017 11:05:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.033 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J- | sp, m |
| Orthophosphorus as PO4 | 0.10 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J- | sp, m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-186829-1

Laboratory: TA IRV

EDD Filename: 440-186829-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-02D-20170619 | Collected: AM | 6/19/2017 11:05:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.025 | U | 0.025 | MDL | 0.050 | MRL | mg/L | R | m |

| Sample ID: CTMW-02D-20170619-FD | Collected: AM | 6/19/2017 11:05:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|--|----------------------|---------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.035 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J- | sp, m |
| Orthophosphorus as PO4 | 0.11 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J- | sp, m |

| Sample ID: CTMW-02D-20170619-FD | Collected: AM | 6/19/2017 11:05:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|--|----------------------|---------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.025 | U | 0.025 | MDL | 0.050 | MRL | mg/L | R | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 5220D | Matrix: AQ |

| Sample ID: CTMW-01D-20170619 | Collected: AM | 6/19/2017 8:55:00 | Analysis Type: RES | Dilution: 5 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chemical Oxygen Demand | 50 | U F1 | 50 | MDL | 100 | MRL | mg/L | R | m |

| Sample ID: CTMW-02D-20170619 | Collected: AM | 6/19/2017 11:05:00 | Analysis Type: RES | Dilution: 5 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chemical Oxygen Demand | 50 | U | 50 | MDL | 100 | MRL | mg/L | R | m |

| Sample ID: CTMW-02D-20170619-FD | Collected: AM | 6/19/2017 11:05:00 | Analysis Type: RES | Dilution: 5 | | | | | |
|--|----------------------|---------------------------|---------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chemical Oxygen Demand | 50 | U | 50 | MDL | 100 | MRL | mg/L | R | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-186829-1

Laboratory: TA IRV

EDD Filename: 440-186829-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

| Sample ID: CTMW-01D-20170619 | | Collected: AM | | 6/19/2017 8:55:00 | | | | Analysis Type: RES | | Dilution: 10 | |
|-------------------------------------|------------|----------------------|------|--------------------------|------|---------|-------|---------------------------|-------------|---------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total Sulfide | 0.27 | U F1 | 0.27 | MDL | 0.50 | MRL | mg/L | R | m | | |

| Sample ID: CTMW-01S-20170619 | | Collected: AM | | 6/19/2017 7:05:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-------|--------------------------|-------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total Sulfide | 0.36 | | 0.027 | MDL | 0.050 | MRL | mg/L | J- | m | | |

| Sample ID: CTMW-02D-20170619 | | Collected: AM | | 6/19/2017 11:05:00 | | | | Analysis Type: RES | | Dilution: 10 | |
|-------------------------------------|------------|----------------------|------|---------------------------|------|---------|-------|---------------------------|-------------|---------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total Sulfide | 0.27 | U | 0.27 | MDL | 0.50 | MRL | mg/L | R | m | | |

| Sample ID: CTMW-02D-20170619-FD | | Collected: AM | | 6/19/2017 11:05:00 | | | | Analysis Type: RES | | Dilution: 10 | |
|--|------------|----------------------|------|---------------------------|------|---------|-------|---------------------------|-------------|---------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total Sulfide | 0.27 | U | 0.27 | MDL | 0.50 | MRL | mg/L | R | m | | |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

| Sample ID: CTMW-02D-20170619 | | Collected: AM | | 6/19/2017 11:05:00 | | | | Analysis Type: RES | | Dilution: 50 | |
|-------------------------------------|------------|----------------------|----|---------------------------|----|---------|-------|---------------------------|-------------|---------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Acetic acid | 49 | J | 15 | MDL | 50 | MRL | mg/L | J | sp | | |
| n-Butyric acid | 40 | J | 13 | MDL | 50 | MRL | mg/L | J | sp | | |
| Propionic acid | 27 | J | 18 | MDL | 50 | MRL | mg/L | J | sp | | |

| Sample ID: CTMW-02D-20170619-FD | | Collected: AM | | 6/19/2017 11:05:00 | | | | Analysis Type: RES | | Dilution: 50 | |
|--|------------|----------------------|----|---------------------------|----|---------|-------|---------------------------|-------------|---------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| n-Butyric acid | 42 | J | 13 | MDL | 50 | MRL | mg/L | J | sp | | |
| Propionic acid | 31 | J | 18 | MDL | 50 | MRL | mg/L | J | sp | | |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-186829-1

Laboratory: TA IRV

EDD Filename: 440-186829-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: CTMW-01D-20170619 | Collected: AM | 6/19/2017 8:55:00 | Analysis Type: RES/TOT | Dilution: 5 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 22 | | 0.013 | MDL | 0.025 | MRL | mg/L | J+ | m |

| Sample ID: CTMW-01S-20170619 | Collected: AM | 6/19/2017 7:05:00 | Analysis Type: RES/TOT | Dilution: 2 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 17 | | 0.10 | MDL | 0.20 | MRL | mg/L | J+ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: CTMW-01D-20170619 | Collected: AM | 6/19/2017 8:55:00 | Analysis Type: RES/DIS | Dilution: 10 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 18000 | | 5.0 | MDL | 20 | MRL | ug/L | J+ | m |
| VANADIUM | 10 | U F 1 L | 10 | MDL | 20 | MRL | ug/L | R | m |

| Sample ID: CTMW-01S-20170619 | Collected: AM | 6/19/2017 7:05:00 | Analysis Type: RES/DIS | Dilution: 10 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COBALT | 5.2 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |
| COPPER | 13 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

| Sample ID: CTMW-02D-20170619-FD | Collected: AM | 6/19/2017 11:05:00 | Analysis Type: RES/DIS | Dilution: 10 | | | | | |
|--|----------------------|---------------------------|-------------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 6.6 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| NIC EL | 5.4 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| SELENIUM | 5.4 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-186829-1

Laboratory: TA IRV

EDD Filename: 440-186829-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

| Sample ID: CTMW-01D-20170619 | Collected: AM | 6/19/2017 8:55:00 | Analysis Type: RES/DIS | Dilution: 1000 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|-----------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 20000 | H | 250 | MDL | 2000 | MRL | ug/L | J- | m, h |

| Sample ID: CTMW-01S-20170619 | Collected: AM | 6/19/2017 7:05:00 | Analysis Type: RES/DIS | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 0.25 | U H | 0.25 | MDL | 2.0 | MRL | ug/L | UJ | h |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

| Sample ID: CTMW-01S-20170619 | Collected: AM | 6/19/2017 7:05:00 | Analysis Type: RES | Dilution: 25 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|---------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ACETONE | 300 | J | 250 | MDL | 500 | MRL | ug/L | J | sp |
| METHYLENE CHLORIDE | 27 | J | 22 | MDL | 50 | MRL | ug/L | J | sp |

| Sample ID: CTMW-02D-20170619 | Collected: AM | 6/19/2017 11:05:00 | Analysis Type: RES | Dilution: 40 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| 1,2-DICHLOROBENENE | 16 | J | 10 | MDL | 20 | MRL | ug/L | J | sp |

| Sample ID: CTMW-02D-20170619-FD | Collected: AM | 6/19/2017 11:05:00 | Analysis Type: RES | Dilution: 20 | | | | | |
|--|----------------------|---------------------------|---------------------------|---------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| 1,4-DICHLOROBENENE | 7.9 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |
| 2-BUTANONE (ME) | 82 | J | 50 | MDL | 100 | MRL | ug/L | J | sp |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | VOA | |
| Method: | RSK-175 | Matrix: AQ |

| Sample ID: CTMW-02D-20170619 | Collected: AM | 6/19/2017 11:05:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|---------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Methane (FID) | 0.00041 | J | 0.00025 | MDL | 0.00099 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-186829-1

Laboratory: TA IRV

EDD Filename: 440-186829-1

eQAPP Name: TetraTechInc_NERT_06262017

| | |
|-----------------------------|-------------------|
| Method Category: VOA | |
| Method: RSK-175 | Matrix: AQ |

Sample ID: CTMW-02D-20170619-FD Collected: 6/19/2017 11:05:00 AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|---------|---------|---------|---------|-------|------------------|-------------|
| Methane (FID) | 0.00054 | J | 0.00025 | MDL | 0.00099 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-186829-1

Laboratory: TA IRV

EDD Filename: 440-186829-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| bl | Method Blank Contamination |
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-186829-2

Laboratory: TA IRV

EDD Filename: 440-186829-2

eQAPP Name: TetraTechInc_NERT_06262017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-186901-1

Laboratory: TA IRV

EDD Filename: 440-186901-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

6/20/2017 10:05:00
Sample ID: CTMW-04S-20170620 **Collected:** AM **Analysis Type:** RES **Dilution:** 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| n-Butyric acid | 30 | J | 13 | MDL | 50 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

6/20/2017 10:05:00
Sample ID: CTMW-04S-20170620 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| COBALT | 5.1 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |
| IRON | 140 | J B | 80 | MDL | 200 | MRL | ug/L | J | sp |
| VANADIUM | 16 | J | 10 | MDL | 20 | MRL | ug/L | J | sp |
| INC | 26 | J B | 25 | MDL | 200 | MRL | ug/L | J | sp |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

6/20/2017 10:05:00
Sample ID: CTMW-04S-20170620 **Collected:** AM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| 2-HEXANONE | 3.3 | J | 2.5 | MDL | 5.0 | MRL | ug/L | J | sp |
| BEN ENE | 0.46 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |
| HEXACHLOROBUTADIENE | 0.36 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-186901-1

Laboratory: TA IRV

EDD Filename: 440-186901-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| bl | Method Blank Contamination |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-186906-1

Laboratory: TA IRV

EDD Filename: 440-186906-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-03D-20170620 | Collected: AM | 6/20/2017 8:00:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.022 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |
| Orthophosphorus as PO4 | 0.068 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: CTMW-02S-20170620 | Collected: AM | 6/20/2017 5:00:00 | Analysis Type: RES/DIS | Dilution: 10 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| NIC EL | 19 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| VANADIUM | 11 | J | 10 | MDL | 20 | MRL | ug/L | J | sp |

| Sample ID: CTMW-03S-20170620 | Collected: AM | 6/20/2017 6:30:00 | Analysis Type: RES/DIS | Dilution: 10 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|---------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 63 | J | 50 | MDL | 100 | MRL | ug/L | J | sp |
| NIC EL | 10 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

| Sample ID: CTMW-02S-20170620 | Collected: AM | 6/20/2017 5:00:00 | Analysis Type: RES | Dilution: 2.5 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|----------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| BEN ENE | 1.0 | J | 0.63 | MDL | 1.3 | MRL | ug/L | J | sp |

| Sample ID: CTMW-03D-20170620 | Collected: AM | 6/20/2017 8:00:00 | Analysis Type: RES | Dilution: 20 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 29 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

| Sample ID: CTMW-03S-20170620 | Collected: AM | 6/20/2017 6:30:00 | Analysis Type: RES | Dilution: 10 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 16 | J | 8.8 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-186906-1

Laboratory: TA IRV

EDD Filename: 440-186906-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | | |
|-------------------------|----------|----------------|----|
| <i>Method Category:</i> | VOA | | |
| <i>Method:</i> | 8260B LL | <i>Matrix:</i> | AQ |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-186906-1

Laboratory: TA IRV

EDD Filename: 440-186906-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| bl | Method Blank Contamination |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-186917-1

Laboratory: TA IRV

EDD Filename: 440-186917-1

eQAPP Name: TetraTechInc_NERT_06262017

| | |
|--------------------------------|-------------------|
| Method Category: METALS | |
| Method: 7199 | Matrix: AQ |

Sample ID: UFMW-02D-20170620 Collected: 6/20/2017 8:15:00 AM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 15 | | 0.25 | MDL | 2.0 | MRL | ug/L | J- | m |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-186917-1

Laboratory: TA IRV

EDD Filename: 440-186917-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Lower Estimation |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-187017-1

Laboratory: TA IRV

EDD Filename: 440-187017-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-04D-20170621 | Collected: AM | 6/21/2017 5:45:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.044 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |
| Orthophosphorus as PO4 | 0.14 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J | sp |

| Sample ID: CTMW-05S-20170621 | Collected: AM | 6/21/2017 6:55:00 | Analysis Type: RE2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.033 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: CTMW-05D-20170621 | Collected: AM | 6/21/2017 8:50:00 | Analysis Type: RES/TOT | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| MANGANESE | 0.015 | U | 0.015 | MDL | 0.020 | MRL | mg/L | UJ | fd |

| Sample ID: CTMW-05D-20170621-FD | Collected: AM | 6/21/2017 8:50:00 | Analysis Type: RES/TOT | Dilution: 1 | | | | | |
|--|----------------------|--------------------------|-------------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| MANGANESE | 0.015 | J | 0.015 | MDL | 0.020 | MRL | mg/L | J | sp, fd |

| Sample ID: CTMW-05S-20170621 | Collected: AM | 6/21/2017 6:55:00 | Analysis Type: RES/TOT | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 0.088 | J | 0.050 | MDL | 0.10 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: CTMW-05D-20170621 | Collected: AM | 6/21/2017 8:50:00 | Analysis Type: RES/DIS | Dilution: 10 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| SELENIUM | 5.0 | U | 5.0 | MDL | 20 | MRL | ug/L | UJ | fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-187017-1

Laboratory: TA IRV

EDD Filename: 440-187017-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: CTMW-05D-20170621-FD | Collected: AM | 6/21/2017 8:50:00 | Analysis Type: RES/DIS | Dilution: 10 | | | | | |
|--|----------------------|--------------------------|-------------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| SELENIUM | 18 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp, fd |

| Sample ID: CTMW-06S-20170621 | Collected: AM | 6/21/2017 10:35:00 | Analysis Type: RES/DIS | Dilution: 10 | | | | | |
|-------------------------------------|----------------------|---------------------------|-------------------------------|---------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 56 | J B | 50 | MDL | 100 | MRL | ug/L | J | sp |
| IRON | 110 | J | 80 | MDL | 200 | MRL | ug/L | J | sp |
| NIC EL | 15 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| SELENIUM | 8.3 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

| Sample ID: CTMW-04D-20170621 | Collected: AM | 6/21/2017 5:45:00 | Analysis Type: RES | Dilution: 25 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 34 | J | 22 | MDL | 50 | MRL | ug/L | J | sp |

| Sample ID: CTMW-05D-20170621 | Collected: AM | 6/21/2017 8:50:00 | Analysis Type: RES | Dilution: 20 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 30 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

| Sample ID: CTMW-05D-20170621-FD | Collected: AM | 6/21/2017 8:50:00 | Analysis Type: RES | Dilution: 20 | | | | | |
|--|----------------------|--------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 35 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

| Sample ID: CTMW-05S-20170621 | Collected: AM | 6/21/2017 6:55:00 | Analysis Type: RES | Dilution: 10 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 14 | J | 8.8 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-187017-1

Laboratory: TA IRV

EDD Filename: 440-187017-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID: CTMW-06S-20170621
 Collected: 6/21/2017 10:35:00 AM
 Analysis Type: RES
 Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| METH LENE CHLORIDE | 18 | J | 8.8 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-187017-1

Laboratory: TA IRV

EDD Filename: 440-187017-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| bl | Method Blank Contamination |
| fd | Field Duplicate Precision |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-187020-1

Laboratory: TA IRV

EDD Filename: 440-187020-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

6/21/2017 10:05:00
Sample ID: UFMW-05D-20170621 **Collected:** AM **Analysis Type:** RES **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Nitrate as N | 33 | | 0.55 | MDL | 1.1 | MRL | mg/L | J- | m, ld |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

6/21/2017 10:05:00
Sample ID: UFMW-05D-20170621 **Collected:** AM **Analysis Type:** RES2 **Dilution:** 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|------|---------|-------|------------------|-------------|
| Chlorate | 13000 | | 500 | MDL | 1000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|-----------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0_ppm | Matrix: AQ |

6/21/2017 5:45:00
Sample ID: UFMW-04D-20170621 **Collected:** AM **Analysis Type:** RES **Dilution:** 1000
0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 840 | | 5.0 | MDL | 10 | MRL | mg/L | J+ | m |

6/21/2017 10:05:00
Sample ID: UFMW-05D-20170621 **Collected:** AM **Analysis Type:** RES **Dilution:** 5000
0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 1900 | | 25 | MDL | 50 | MRL | mg/L | J+ | m |

6/21/2017 8:35:00
Sample ID: UFMW-05I-20170621 **Collected:** AM **Analysis Type:** RES **Dilution:** 1000
0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 470 | | 5.0 | MDL | 10 | MRL | mg/L | J+ | m |

6/21/2017 7:10:00
Sample ID: UFMW-05S-20170621 **Collected:** AM **Analysis Type:** RES **Dilution:** 1000
0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 460 | | 5.0 | MDL | 10 | MRL | mg/L | J+ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-187020-1

Laboratory: TA IRV

EDD Filename: 440-187020-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|-----------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0_ppm | Matrix: AQ |

6/21/2017 11:50:00 1000
Sample ID: UFMW-06S-20170621 **Collected:** AM **Analysis Type:** RES **Dilution:** 0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 740 | | 5.0 | MDL | 10 | MRL | mg/L | J+ | m |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

6/21/2017 5:45:00 1
Sample ID: UFMW-04D-20170621 **Collected:** AM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

6/21/2017 10:05:00 1
Sample ID: UFMW-05D-20170621 **Collected:** AM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.027 | U F1 | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

6/21/2017 8:35:00 1
Sample ID: UFMW-05I-20170621 **Collected:** AM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

6/21/2017 7:10:00 1
Sample ID: UFMW-05S-20170621 **Collected:** AM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

6/21/2017 11:50:00 1
Sample ID: UFMW-06S-20170621 **Collected:** AM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-187020-1

Laboratory: TA IRV

EDD Filename: 440-187020-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: UFMW-04D-20170621 | Collected: AM | 6/21/2017 5:45:00 | Analysis Type: RES/TOT | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|-------------------|-------------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| MANGANESE | 0.015 | J | 0.015 | MDL | 0.020 | MRL | mg/L | J | sp |

| Sample ID: UFMW-05S-20170621 | Collected: AM | 6/21/2017 7:10:00 | Analysis Type: RES/TOT | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|-------------------|-------------------------------|--------------------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 0.0049 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-187020-1

Laboratory: TA IRV

EDD Filename: 440-187020-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| f | Matrix Spike Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

7/10/2017 1:45:44 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-187098-1

Laboratory: TA IRV

EDD Filename: 440-187098-1

eQAPP Name: TetraTechInc_NERT_06262017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-187099-1

Laboratory: TA IRV

EDD Filename: 440-187099-1

eQAPP Name: TetraTechInc_NERT_06262017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-187101-1

Laboratory: TA IRV

EDD Filename: 440-187101-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: CTMW-06D-20170622 Collected: 6/22/2017 5:50:00 AM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 17 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J- | m, m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: CTMW-06D-20170622 Collected: 6/22/2017 5:50:00 AM Analysis Type: RE2/DIS Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|----|---------|-----|---------|-------|------------------|-------------|
| IRON | 96 | J B | 80 | MDL | 200 | MRL | ug/L | J | sp |

Sample ID: CTMW-06D-20170622 Collected: 6/22/2017 5:50:00 AM Analysis Type: RES/DIS Dilution: 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| COPPER | 1.9 | J | 1.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| NIC EL | 3.6 | J | 1.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| SELENIUM | 3.4 | J | 1.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| INC | 7.2 | J B | 5.0 | MDL | 40 | MRL | ug/L | J+ | bl |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-187101-1

Laboratory: TA IRV

EDD Filename: 440-187101-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| bl | Method Blank Contamination |
| d | Laboratory Control Spike Upper Estimation |
| l | Laboratory Control Spike Upper Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-188487-1

Laboratory: TA IRV

EDD Filename: 440-188487-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | | | | | | | | | |
|-------------------------|---------|--|--|--|----------------|----|--|--|--|--|
| Method Category: | GENCHEM | | | | | | | | | |
| Method: | 300.0 | | | | Matrix: | AQ | | | | |

Sample ID:CTMW-06S-20170717 Collected:AM 7/17/2017 9:55:00 Analysis Type:RES Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| Nitrate as N | 1.2 | J | 1.1 | MDL | 2.2 | MRL | mg/L | J | sp |

| | | | | | | | | | | |
|-------------------------|---------|--|--|--|----------------|----|--|--|--|--|
| Method Category: | GENCHEM | | | | | | | | | |
| Method: | 300.1B | | | | Matrix: | AQ | | | | |

Sample ID:CTMW-06D-20170717 Collected:AM 7/17/2017 11:40:00 Analysis Type:RES2 Dilution: 2000
0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 3900000 | | 200000 | MDL | 400000 | MRL | ug/L | J+ | m |

| | | | | | | | | | | |
|-------------------------|---------|--|--|--|----------------|----|--|--|--|--|
| Method Category: | GENCHEM | | | | | | | | | |
| Method: | 314.0 | | | | Matrix: | AQ | | | | |

Sample ID:CTMW-06S-20170717 Collected:AM 7/17/2017 9:55:00 Analysis Type:RES Dilution: 500

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| PERCHLORATE | 18000 | F1 | 250 | MDL | 500 | MRL | ug/L | J- | m |

| | | | | | | | | | | |
|-------------------------|---------|--|--|--|----------------|----|--|--|--|--|
| Method Category: | GENCHEM | | | | | | | | | |
| Method: | 365.3 | | | | Matrix: | AQ | | | | |

Sample ID:CTMW-05S-20170717 Collected:PM 7/17/2017 1:40:00 Analysis Type:RES2 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.027 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| | | | | | | | | | | |
|-------------------------|-------------|--|--|--|----------------|----|--|--|--|--|
| Method Category: | GENCHEM | | | | | | | | | |
| Method: | SM4500_S2_D | | | | Matrix: | AQ | | | | |

Sample ID:CTMW-05S-20170717 Collected:PM 7/17/2017 1:40:00 Analysis Type:RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.028 | J | 0.027 | MDL | 0.050 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-188487-1

Laboratory: TA IRV

EDD Filename: 440-188487-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

| Sample ID: CTMW-06D-20170717 | Collected: AM | 7/17/2017 11:40:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.030 | J | 0.027 | MDL | 0.050 | MRL | mg/L | J | sp |

| Sample ID: CTMW-06D-20170717-FD | Collected: AM | 7/17/2017 11:40:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|--|----------------------|---------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.029 | J | 0.027 | MDL | 0.050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: CTMW-06D-20170717 | Collected: AM | 7/17/2017 11:40:00 | Analysis Type: RES/TOT | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|-------------------------------|--------------------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 18 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | m, m |
| IRON | 0.050 | U | 0.050 | MDL | 0.10 | MRL | mg/L | UJ | fd |

| Sample ID: CTMW-06D-20170717-FD | Collected: AM | 7/17/2017 11:40:00 | Analysis Type: RES/TOT | Dilution: 1 | | | | | |
|--|----------------------|---------------------------|-------------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 0.067 | J | 0.050 | MDL | 0.10 | MRL | mg/L | J | sp, fd |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: CTMW-05S-20170717 | Collected: PM | 7/17/2017 1:40:00 | Analysis Type: RES/DIS | Dilution: 5 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| NIC EL | 5.5 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

| Sample ID: CTMW-06D-20170717 | Collected: AM | 7/17/2017 11:40:00 | Analysis Type: RES/DIS | Dilution: 5 | | | | | |
|-------------------------------------|----------------------|---------------------------|-------------------------------|--------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 2.5 | U | 2.5 | MDL | 10 | MRL | ug/L | UJ | fd |
| NIC EL | 4.7 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 2.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-188487-1

Laboratory: TA IRV

EDD Filename: 440-188487-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: CTMW-06D-20170717-FD | | 7/17/2017 11:40:00 | | | Analysis Type: RE2/DIS | | | Dilution: 5 | |
|--|------------|---------------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| | | Collected: AM | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 3.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp, fd |

| Sample ID: CTMW-06D-20170717-FD | | 7/17/2017 11:40:00 | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|--|------------|---------------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| | | Collected: AM | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| NIC EL | 5.4 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 3.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

| Sample ID: CTMW-06S-20170717 | | 7/17/2017 9:55:00 | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|--------------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| | | Collected: AM | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ANTIMON | 4.0 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| COBALT | 3.1 | J | 2.5 | MDL | 5.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-188487-1

Laboratory: TA IRV

EDD Filename: 440-188487-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| fd | Field Duplicate Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-188538-1

Laboratory: TA IRV

EDD Filename: 440-188538-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

7/18/2017 6:25:00
Sample ID:CTMW-05D-20170718 **Collected:**AM **Analysis Type:**RES **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| Nitrate as N | 64 | | 1.1 | MDL | 2.2 | MRL | mg/L | J+ | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

7/18/2017 6:25:00
Sample ID:CTMW-05D-20170718 **Collected:**AM **Analysis Type:**RES **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Chlorite | 10000 | U | 10000 | MDL | 20000 | MRL | ug/L | R | m |

7/18/2017 6:25:00
Sample ID:CTMW-05D-20170718 **Collected:**AM **Analysis Type:**RES2 **Dilution:** 2000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 3400000 | | 200000 | MDL | 400000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

7/18/2017 6:25:00
Sample ID:CTMW-05D-20170718 **Collected:**AM **Analysis Type:**RES **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 510000 | | 5000 | MDL | 10000 | MRL | ug/L | J+ | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

7/18/2017 11:40:00
Sample ID:CTMW-03S-20170718 **Collected:**AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

7/18/2017 8:50:00
Sample ID:CTMW-04D-20170718 **Collected:**AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-188538-1

Laboratory: TA IRV

EDD Filename: 440-188538-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

| Sample ID: CTMW-04S-20170718 | Collected: AM | 7/18/2017 10:10:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

| Sample ID: CTMW-05D-20170718 | Collected: AM | 7/18/2017 6:25:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total jeldahl Nitrogen | 0.10 | U F1 | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-03S-20170718 | Collected: AM | 7/18/2017 11:40:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.17 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.51 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTMW-03S-20170718 | Collected: AM | 7/18/2017 11:40:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.046 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J- | sp, m |

| Sample ID: CTMW-04D-20170718 | Collected: AM | 7/18/2017 8:50:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.052 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.16 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTMW-04D-20170718 | Collected: AM | 7/18/2017 8:50:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.025 | U | 0.025 | MDL | 0.050 | MRL | mg/L | R | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

8/14/2017 12:13:52 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-188538-1

Laboratory: TA IRV

EDD Filename: 440-188538-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-04S-20170718 | | 7/18/2017 10:10:00 | | Collected: AM | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|---------------------------|-------|----------------------|-------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.51 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 1.6 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTMW-04S-20170718 | | 7/18/2017 10:10:00 | | Collected: AM | | Analysis Type: RES2 | | Dilution: 1 | |
|-------------------------------------|------------|---------------------------|-------|----------------------|-------|----------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.38 | | 0.025 | MDL | 0.050 | MRL | mg/L | J- | m |

| Sample ID: CTMW-05D-20170718 | | 7/18/2017 6:25:00 | | Collected: AM | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|--------------------------|-------|----------------------|-------|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.053 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.16 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTMW-05D-20170718 | | 7/18/2017 6:25:00 | | Collected: AM | | Analysis Type: RES2 | | Dilution: 1 | |
|-------------------------------------|------------|--------------------------|-------|----------------------|-------|----------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.025 | U F1 | 0.025 | MDL | 0.050 | MRL | mg/L | R | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 5220D | Matrix: AQ |

| Sample ID: CTMW-03S-20170718 | | 7/18/2017 11:40:00 | | Collected: AM | | Analysis Type: RES | | Dilution: 5 | |
|-------------------------------------|------------|---------------------------|----|----------------------|-----|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chemical Oxygen Demand | 50 | U | 50 | MDL | 100 | MRL | mg/L | R | m |

| Sample ID: CTMW-05D-20170718 | | 7/18/2017 6:25:00 | | Collected: AM | | Analysis Type: RES | | Dilution: 5 | |
|-------------------------------------|------------|--------------------------|----|----------------------|-----|---------------------------|-------|--------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chemical Oxygen Demand | 50 | U F1 | 50 | MDL | 100 | MRL | mg/L | R | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-188538-1

Laboratory: TA IRV

EDD Filename: 440-188538-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

| Sample ID: CTMW-03S-20170718 | Collected: AM | 7/18/2017 11:40:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.077 | | 0.027 | MDL | 0.050 | MRL | mg/L | J- | m |

| Sample ID: CTMW-04D-20170718 | Collected: AM | 7/18/2017 8:50:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| Sample ID: CTMW-04S-20170718 | Collected: AM | 7/18/2017 10:10:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.073 | | 0.027 | MDL | 0.050 | MRL | mg/L | J- | m |

| Sample ID: CTMW-05D-20170718 | Collected: AM | 7/18/2017 6:25:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U F1 | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

| Sample ID: CTMW-05D-20170718 | Collected: AM | 7/18/2017 6:25:00 | Analysis Type: RES | Dilution: 5 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Acetic acid | 1.5 | U F1 F2 | 1.5 | MDL | 5.0 | MRL | mg/L | UJ | m, ld |
| Formic-acid | 1.3 | U F1 F2 | 1.3 | MDL | 5.0 | MRL | mg/L | UJ | m, ld |
| Lactic Acid | 1.6 | U F1 | 1.6 | MDL | 5.0 | MRL | mg/L | UJ | m |
| n-Butyric acid | 1.3 | U F2 | 1.3 | MDL | 5.0 | MRL | mg/L | UJ | ld |
| Propionic acid | 1.8 | U F1 F2 | 1.8 | MDL | 5.0 | MRL | mg/L | UJ | m, ld |

| Sample ID: CTMW-05D-20170718 | Collected: AM | 7/18/2017 6:25:00 | Analysis Type: RES2 | Dilution: 50 | | | | | |
|-------------------------------------|----------------------|--------------------------|----------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Pyruvic acid | 19 | U F1 | 19 | MDL | 75 | MRL | mg/L | UJ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-188538-1

Laboratory: TA IRV

EDD Filename: 440-188538-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: CTMW-03S-20170718 | Collected: AM | 7/18/2017 11:40:00 | Analysis Type: RES/TOT | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|-------------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 0.055 | J | 0.050 | MDL | 0.10 | MRL | mg/L | J | sp |

| Sample ID: CTMW-05D-20170718 | Collected: AM | 7/18/2017 6:25:00 | Analysis Type: RES/TOT | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 15 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J+ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: CTMW-03S-20170718 | Collected: AM | 7/18/2017 11:40:00 | Analysis Type: RES/DIS | Dilution: 5 | | | | | |
|-------------------------------------|----------------------|---------------------------|-------------------------------|--------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| NIC EL | 4.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

| Sample ID: CTMW-04D-20170718 | Collected: AM | 7/18/2017 8:50:00 | Analysis Type: RES/DIS | Dilution: 5 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| NIC EL | 4.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 3.4 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

| Sample ID: CTMW-04S-20170718 | Collected: AM | 7/18/2017 10:10:00 | Analysis Type: RES/DIS | Dilution: 5 | | | | | |
|-------------------------------------|----------------------|---------------------------|-------------------------------|--------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| VANADIUM | 6.4 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |

| Sample ID: CTMW-05D-20170718 | Collected: AM | 7/18/2017 6:25:00 | Analysis Type: RES/DIS | Dilution: 5 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| CHROMIUM | 19000 | | 2.5 | MDL | 10 | MRL | ug/L | J- | m |
| NIC EL | 3.5 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 6.1 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| URANIUM | 57 | F1 | 2.5 | MDL | 5.0 | MRL | ug/L | J+ | m |
| VANADIUM | 5.0 | U L F1 | 5.0 | MDL | 10 | MRL | ug/L | R | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-188538-1

Laboratory: TA IRV

EDD Filename: 440-188538-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 7199 | Matrix: | | AQ | | | | | | |

| Sample ID: CTMW-04S-20170718 | Collected: 7/18/2017 10:10:00 AM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|---|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 0.34 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

| Sample ID: CTMW-05D-20170718 | Collected: 7/18/2017 6:25:00 AM | Analysis Type: RES/DIS | Dilution: 1000 | | | | | | |
|-------------------------------------|--|-------------------------------|-----------------------|---------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 15000 | H | 250 | MDL | 2000 | MRL | ug/L | J- | m, h |

| | | | | | | | | | | |
|-------------------------|----------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | VOA | | | | | | | | | |
| Method: | 8260B LL | Matrix: | | AQ | | | | | | |

| Sample ID: CTMW-04S-20170718 | Collected: 7/18/2017 10:10:00 AM | Analysis Type: RES | Dilution: 10 | | | | | | |
|-------------------------------------|---|---------------------------|---------------------|---------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 15 | J | 8.8 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-188538-1

Laboratory: TA IRV

EDD Filename: 440-188538-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| e | Sampling to Analysis Estimation |
| f | Matrix Spike Precision |
| h | Sampling to Analysis Estimation |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-188655-1

Laboratory: TA IRV

EDD Filename: 440-188655-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

Sample ID: CTMW-02S-20170719 Collected: 7/19/2017 9:15:00 AM Analysis Type: RES Dilution: 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Nitrate as N | 0.63 | J | 0.55 | MDL | 1.1 | MRL | mg/L | J | sp |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID: CTMW-02D-20170719 Collected: 7/19/2017 11:20:00 AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.12 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.35 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

Sample ID: CTMW-02D-20170719 Collected: 7/19/2017 11:20:00 AM Analysis Type: RES2 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.027 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

Sample ID: CTMW-02S-20170719 Collected: 7/19/2017 9:15:00 AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.56 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 1.7 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

Sample ID: CTMW-03D-20170719 Collected: 7/19/2017 6:30:00 AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.064 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.20 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: CTMW-03D-20170719 Collected: 7/19/2017 6:30:00 AM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 14 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J+ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-188655-1

Laboratory: TA IRV

EDD Filename: 440-188655-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

7/19/2017 6:30:00
Sample ID: CTMW-03D-20170719 **Collected:** AM **Analysis Type:** RES/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| MANGANESE | 0.018 | J | 0.015 | MDL | 0.020 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

7/19/2017 11:20:00
Sample ID: CTMW-02D-20170719 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| CHROMIUM | 12000 | | 5.0 | MDL | 20 | MRL | ug/L | J | m, m |
| IRON | 80 | U F1 F2 | 80 | MDL | 200 | MRL | ug/L | UJ | m, ld |
| NIC EL | 5.4 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| VANADIUM | 10 | U F1 L | 10 | MDL | 20 | MRL | ug/L | R | m |

7/19/2017 9:15:00
Sample ID: CTMW-02S-20170719 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| ANTIMON | 5.0 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| NIC EL | 9.0 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

7/19/2017 6:30:00
Sample ID: CTMW-03D-20170719 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| SELENIUM | 5.7 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

7/19/2017 11:20:00
Sample ID: CTMW-02D-20170719 **Collected:** AM **Analysis Type:** RES **Dilution:** 25

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| 1,2-DICHLOROBEN ENE | 12 | J | 6.3 | MDL | 13 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-188655-1

Laboratory: TA IRV

EDD Filename: 440-188655-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID: CTMW-02S-20170719
 Collected: AM
 7/19/2017 9:15:00
 Analysis Type: RES
 Dilution: 25

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| METH LENE CHLORIDE | 41 | J | 22 | MDL | 50 | MRL | ug/L | J | sp |
| NAPHTHALENE | 12 | J | 10 | MDL | 25 | MRL | ug/L | J | sp |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | VOA | |
| Method: | RSK-175 | Matrix: AQ |

Sample ID: CTMW-02D-20170719
 Collected: AM
 7/19/2017 11:20:00
 Analysis Type: RES
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|---------|---------|---------|---------|-------|------------------|-------------|
| Methane (FID) | 0.00038 | J | 0.00025 | MDL | 0.00099 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-188655-1

Laboratory: TA IRV

EDD Filename: 440-188655-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| f | Matrix Spike Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-188722-1

Laboratory: TA IRV

EDD Filename: 440-188722-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

| Sample ID: CTMW-01D-20170720 | Collected: AM | 7/20/2017 6:15:00 | Analysis Type: RES | Dilution: 1000 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|-----------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorite | 10000 | U | 10000 | MDL | 20000 | MRL | ug/L | R | m |

| Sample ID: CTMW-01D-20170720 | Collected: AM | 7/20/2017 6:15:00 | Analysis Type: RES2 | Dilution: 2000 | | | | | |
|-------------------------------------|----------------------|--------------------------|----------------------------|-----------------------|--------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 4100000 | | 200000 | MDL | 400000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-01D-20170720 | Collected: AM | 7/20/2017 6:15:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.080 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.24 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTMW-01D-20170720 | Collected: AM | 7/20/2017 6:15:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.029 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| Sample ID: CTMW-01D-20170720-FD | Collected: AM | 7/20/2017 6:15:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|--|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.10 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.31 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTMW-01D-20170720-FD | Collected: AM | 7/20/2017 6:15:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|--|----------------------|--------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.030 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-188722-1

Laboratory: TA IRV

EDD Filename: 440-188722-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

7/20/2017 6:15:00
Sample ID:CTMW-01D-20170720 **Collected:**AM **Analysis Type:**RES **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| Pyruvic acid | 7.4 | U F1 | 7.4 | MDL | 30 | MRL | mg/L | UJ | m |

7/20/2017 6:15:00
Sample ID:CTMW-01D-20170720-FD **Collected:**AM **Analysis Type:**RES **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| Lactic Acid | 18 | J | 6.2 | MDL | 20 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

7/20/2017 6:15:00
Sample ID:CTMW-01D-20170720 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| CHROMIUM | 15000 | | 2.5 | MDL | 10 | MRL | ug/L | J | m, m |
| COPPER | 3.5 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| IRON | 40 | U | 40 | MDL | 100 | MRL | ug/L | UJ | fd |
| NIC EL | 8.0 | J B | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 7.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| VANADIUM | 5.0 | U L F1 | 5.0 | MDL | 10 | MRL | ug/L | R | m |
| INC | 32 | J B F1 | 13 | MDL | 100 | MRL | ug/L | J- | sp, m, fd |

7/20/2017 6:15:00
Sample ID:CTMW-01D-20170720-FD **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| COPPER | 3.2 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| IRON | 100 | | 40 | MDL | 100 | MRL | ug/L | J | fd |
| NIC EL | 7.6 | J B | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 6.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 13 | U | 13 | MDL | 100 | MRL | ug/L | UJ | fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-188722-1

Laboratory: TA IRV

EDD Filename: 440-188722-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | VOA | |
| Method: | RSK-175 | Matrix: AQ |

| Sample ID: CTMW-01D-20170720 | | 7/20/2017 6:15:00 | | | Analysis Type: RES | | | Dilution: 1 | |
|-------------------------------------|------------|--------------------------|---------|---------|---------------------------|---------|-------|--------------------|-------------|
| | | Collected: AM | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Methane (FID) | 0.00040 | J | 0.00025 | MDL | 0.00099 | MRL | mg/L | J | sp, fd |

| Sample ID: CTMW-01D-20170720-FD | | 7/20/2017 6:15:00 | | | Analysis Type: RES | | | Dilution: 1 | |
|--|------------|--------------------------|---------|---------|---------------------------|---------|-------|--------------------|-------------|
| | | Collected: AM | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Methane (FID) | 0.00025 | U | 0.00025 | MDL | 0.00099 | MRL | mg/L | UJ | fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

8/14/2017 12:17:50 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-188722-1

Laboratory: TA IRV

EDD Filename: 440-188722-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| fd | Field Duplicate Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

8/14/2017 12:17:50 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-188726-1

Laboratory: TA IRV

EDD Filename: 440-188726-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: CTMW-01S-20170720 Collected: 7/20/2017 8:15:00 AM Analysis Type: RES/TOT Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| IRON | 25 | | 0.25 | MDL | 0.50 | MRL | mg/L | J | m, m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: CTMW-01S-20170720 Collected: 7/20/2017 8:15:00 AM Analysis Type: RES/DIS Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| ALUMINUM | 48 | J B | 25 | MDL | 50 | MRL | ug/L | J | sp |
| COBALT | 3.7 | J | 2.5 | MDL | 5.0 | MRL | ug/L | J | sp |
| COPPER | 4.2 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 17 | J B | 13 | MDL | 100 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-188726-1

Laboratory: TA IRV

EDD Filename: 440-188726-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

8/28/2017 2:14:29 PM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-190307-1

Laboratory: TA IRV

EDD Filename: 440-190307-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

| Sample ID: UFMW-06D-20170815 | Collected: AM | 8/15/2017 8:15:00 | Analysis Type: RES | Dilution: 50 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|---------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Nitrate as N | 49 | H | 2.8 | MDL | 5.5 | MRL | mg/L | J- | h |

| Sample ID: UFMW-06I-20170815 | Collected: AM | 8/15/2017 9:45:00 | Analysis Type: RES | Dilution: 50 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|---------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Nitrate as N | 79 | H | 2.8 | MDL | 5.5 | MRL | mg/L | J- | h |

| Sample ID: UFMW-06I-20170815-FD | Collected: AM | 8/15/2017 9:45:00 | Analysis Type: RES | Dilution: 100 | | | | | |
|--|----------------------|--------------------------|---------------------------|----------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Nitrate as N | 77 | H | 5.5 | MDL | 11 | MRL | mg/L | J- | h |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

| Sample ID: UFMW-06D-20170815 | Collected: AM | 8/15/2017 8:15:00 | Analysis Type: RES2 | Dilution: 50 | | | | | |
|-------------------------------------|----------------------|--------------------------|----------------------------|---------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chlorate | 11000 | | 500 | MDL | 1000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|-----------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0_ppm | Matrix: AQ |

| Sample ID: UFMW-05D-20170815 | Collected: PM | 8/15/2017 1:25:00 | Analysis Type: RES | Dilution: 5000 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|-----------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 1400 | | 25 | MDL | 50 | MRL | mg/L | J- | m |

| Sample ID: UFMW-06D-20170815 | Collected: AM | 8/15/2017 8:15:00 | Analysis Type: RES | Dilution: 5000 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|-----------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 1300 | F1 | 25 | MDL | 50 | MRL | mg/L | J- | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190307-1

Laboratory: TA IRV

EDD Filename: 440-190307-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|-----------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0_ppm | Matrix: AQ |

| | | | | | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|-----------------------|-----------|----------------|--------------|-------------------------|--------------------|
| Sample ID: UFMW-06I-20170815 | Collected: AM | 8/15/2017 9:45:00 | Analysis Type: RES | Dilution: 1000 | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 610 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m |

| | | | | | | | | | |
|--|----------------------|--------------------------|---------------------------|-----------------------|-----------|----------------|--------------|-------------------------|--------------------|
| Sample ID: UFMW-06I-20170815-FD | Collected: AM | 8/15/2017 9:45:00 | Analysis Type: RES | Dilution: 1000 | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 640 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m |

| | | | | | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|-----------------------|-----------|----------------|--------------|-------------------------|--------------------|
| Sample ID: UFMW-06S-20170815 | Collected: PM | 8/15/2017 12:05:00 | Analysis Type: RES | Dilution: 1000 | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| PERCHLORATE | 490 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

| | | | | | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-----------|----------------|--------------|-------------------------|--------------------|
| Sample ID: UFMW-05D-20170815 | Collected: PM | 8/15/2017 1:25:00 | Analysis Type: RES | Dilution: 1 | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| | | | | | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-----------|----------------|--------------|-------------------------|--------------------|
| Sample ID: UFMW-06D-20170815 | Collected: AM | 8/15/2017 8:15:00 | Analysis Type: RES | Dilution: 1 | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U F1 | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| | | | | | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-----------|----------------|--------------|-------------------------|--------------------|
| Sample ID: UFMW-06I-20170815 | Collected: AM | 8/15/2017 9:45:00 | Analysis Type: RES | Dilution: 1 | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| | | | | | | | | | |
|--|----------------------|--------------------------|---------------------------|--------------------|-----------|----------------|--------------|-------------------------|--------------------|
| Sample ID: UFMW-06I-20170815-FD | Collected: AM | 8/15/2017 9:45:00 | Analysis Type: RES | Dilution: 1 | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190307-1

Laboratory: TA IRV

EDD Filename: 440-190307-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

Sample ID: UFMW-06S-20170815
Collected: 8/15/2017 12:05:00 PM
Analysis Type: RES
Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFMW-06D-20170815
Collected: 8/15/2017 8:15:00 AM
Analysis Type: RES/DIS
Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 26 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

Sample ID: UFMW-06I-20170815-FD
Collected: 8/15/2017 9:45:00 AM
Analysis Type: RES/DIS
Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 16 | H | 0.25 | MDL | 2.0 | MRL | ug/L | J- | h |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190307-1

Laboratory: TA IRV

EDD Filename: 440-190307-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---------------------------------|
| e | Sampling to Analysis Estimation |
| h | Sampling to Analysis Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

8/31/2017 8:22:33 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-190400-1

Laboratory: TA IRV

EDD Filename: 440-190400-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFMW-011-20170816
 Collected: 8/16/2017 11:30:00 AM
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| Chromium, hexavalent | 0.78 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190400-1

Laboratory: TA IRV

EDD Filename: 440-190400-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

8/31/2017 8:23:52 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-190402-1

Laboratory: TA IRV

EDD Filename: 440-190402-1

eQAPP Name: TetraTechInc_NERT_07272017

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 440-190453-1

Laboratory: TA IRV

EDD Filename: 440-190453-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

| Sample ID: UFMW-01S-20170817 | | Collected: AM | | 8/17/2017 5:00:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-------|--------------------------|-------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m | | |

| Sample ID: UFMW-02D-20170817 | | Collected: AM | | 8/17/2017 9:20:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-------|--------------------------|-------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m | | |

| Sample ID: UFMW-02I-20170817 | | Collected: AM | | 8/17/2017 10:45:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-------|---------------------------|-------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total Sulfide | 0.027 | U F1 | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m | | |

| Sample ID: UFMW-03D-20170817 | | Collected: AM | | 8/17/2017 6:35:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-------|--------------------------|-------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m | | |

| Sample ID: UFMW-03I-20170817 | | Collected: AM | | 8/17/2017 7:30:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|-------|--------------------------|-------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m | | |

| Sample ID: UFMW-03I-20170817-FD | | Collected: AM | | 8/17/2017 7:30:00 | | | | Analysis Type: RES | | Dilution: 1 | |
|--|------------|----------------------|-------|--------------------------|-------|---------|-------|---------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m | | |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

| Sample ID: UFMW-03I-20170817 | | Collected: AM | | 8/17/2017 7:30:00 | | | | Analysis Type: RES/TOT | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|--------|--------------------------|--------|---------|-------|-------------------------------|-------------|--------------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | | |
| CHROMIUM | 0.0033 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp | | |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190453-1

Laboratory: TA IRV

EDD Filename: 440-190453-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6010B | Matrix: | | AQ | | | | | | |

8/17/2017 7:30:00
Sample ID: UFMW-03I-20170817-FD **Collected:** AM **Analysis Type:** RES/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 0.0043 | J | 0.0025 | MDL | 0.0050 | MRL | mg/L | J | sp |

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 7199 | Matrix: | | AQ | | | | | | |

8/17/2017 5:00:00
Sample ID: UFMW-01S-20170817 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.75 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

8/17/2017 7:30:00
Sample ID: UFMW-03I-20170817 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 1.3 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

8/17/2017 7:30:00
Sample ID: UFMW-03I-20170817-FD **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 1.4 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190453-1

Laboratory: TA IRV

EDD Filename: 440-190453-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| m | Matrix Spike Lower Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

8/31/2017 8:27:00 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-190752-1

Laboratory: TA IRV

EDD Filename: 440-190752-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

Sample ID: CTMW-06D-20170822 Collected: 8/22/2017 9:20:00 AM Analysis Type: RES2 Dilution: 1000/0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 3700000 | | 100000 | MDL | 200000 | MRL | ug/L | J+ | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID: CTMW-05D-20170822 Collected: 8/22/2017 11:40:00 AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.024 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |
| Orthophosphorus as PO4 | 0.073 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J | sp |

Sample ID: CTMW-05S-20170822 Collected: 8/22/2017 2:10:00 PM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.039 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |
| Orthophosphorus as PO4 | 0.12 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J | sp |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

Sample ID: CTMW-05S-20170822 Collected: 8/22/2017 2:10:00 PM Analysis Type: RES Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| Acetic acid | 9.5 | J | 5.8 | MDL | 20 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: CTMW-05D-20170822 Collected: 8/22/2017 11:40:00 AM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-------|---------|------|---------|-------|------------------|-------------|
| IRON | 0.055 | J | 0.050 | MDL | 0.10 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190752-1

Laboratory: TA IRV

EDD Filename: 440-190752-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

8/22/2017 11:40:00
Sample ID:CTMW-05D-20170822 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| ALUMINUM | 92 | J | 50 | MDL | 100 | MRL | ug/L | J | sp |
| IRON | 130 | J | 80 | MDL | 200 | MRL | ug/L | J | sp |
| NIC EL | 5.2 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| SELENIUM | 6.6 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

8/22/2017 2:10:00
Sample ID:CTMW-05S-20170822 **Collected:**PM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| COPPER | 1.9 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 5.5 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

8/22/2017 9:20:00
Sample ID:CTMW-06D-20170822 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| CHROMIUM | 15000 | | 5.0 | MDL | 20 | MRL | ug/L | J+ | m |
| NIC EL | 8.0 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| SELENIUM | 7.4 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| VANADIUM | 10 | U L F 1 | 10 | MDL | 20 | MRL | ug/L | R | m |

8/22/2017 2:00:00
Sample ID:CTMW-06S-20170822 **Collected:**PM **Analysis Type:**RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 1.6 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| COPPER | 1.7 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| SELENIUM | 1.2 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 5.9 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

8/22/2017 2:00:00
Sample ID:CTMW-06S-20170822 **Collected:**PM **Analysis Type:**RES **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| METH LENE CHLORIDE | 30 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190752-1

Laboratory: TA IRV

EDD Filename: 440-190752-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | VOA | |
| Method: | RSK-175 | Matrix: AQ |

Sample ID: CTMW-06D-20170822
 Collected: 8/22/2017 9:20:00 AM
 Analysis Type: RES
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|-------------------|-----------------|-----------|----------------|-----------|----------------|--------------|-------------------------|--------------------|
| Methane (FID) | 0.00071 | J | 0.00025 | MDL | 0.00099 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

9/7/2017 4:22:46 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-190752-1

Laboratory: TA IRV

EDD Filename: 440-190752-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

9/7/2017 4:22:46 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-190843-1

Laboratory: TA IRV

EDD Filename: 440-190843-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

8/23/2017 11:45:00
Sample ID: CTMW-03D-20170823 **Collected:** AM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.042 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J | sp |
| Orthophosphorus as PO4 | 0.13 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J | sp |

8/23/2017 11:45:00
Sample ID: CTMW-03D-20170823 **Collected:** AM **Analysis Type:** RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.040 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

8/23/2017 11:45:00
Sample ID: CTMW-03D-20170823 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| IRON | 89 | J | 40 | MDL | 100 | MRL | ug/L | J | sp |
| NIC EL | 3.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 5.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190843-1

Laboratory: TA IRV

EDD Filename: 440-190843-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

9/7/2017 4:28:31 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-190847-1

Laboratory: TA IRV

EDD Filename: 440-190847-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

Sample ID: CTMW-04D-20170823-FD Collected: 8/23/2017 9:20:00 AM Analysis Type: RES2 Dilution: 2000/0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 4100000 | | 200000 | MDL | 400000 | MRL | ug/L | J+ | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID: CTMW-04D-20170823 Collected: 8/23/2017 9:20:00 AM Analysis Type: RES2 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.032 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp, fd |

Sample ID: CTMW-04D-20170823-FD Collected: 8/23/2017 9:20:00 AM Analysis Type: RES2 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.025 | U | 0.025 | MDL | 0.050 | MRL | mg/L | UJ | fd |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: CTMW-03S-20170823 Collected: 8/23/2017 1:55:00 PM Analysis Type: RES/DIS Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ALUMINUM | 9.2 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |
| ANTIMON | 0.51 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| CHROMIUM | 4600 | | 0.50 | MDL | 2.0 | MRL | ug/L | J- | m |
| MANGANESE | 520 | | 0.50 | MDL | 1.0 | MRL | ug/L | J- | m |
| SILVER | 0.56 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| VANADIUM | 1.0 | U L F 1 | 1.0 | MDL | 2.0 | MRL | ug/L | R | m, m, ld |
| INC | 8.1 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

Sample ID: CTMW-04D-20170823 Collected: 8/23/2017 9:20:00 AM Analysis Type: RES/DIS Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| MANGANESE | 14 | | 2.5 | MDL | 5.0 | MRL | ug/L | J | fd |
| NIC EL | 4.5 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 5.6 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190847-1

Laboratory: TA IRV

EDD Filename: 440-190847-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | Matrix: | | AQ | | | | | | |

| Sample ID: CTMW-04D-20170823-FD | | Collected: AM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|--|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 8/23/2017 9:20:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| MANGANESE | 21 | | 2.5 | MDL | 5.0 | MRL | ug/L | J | fd |
| NIC EL | 4.7 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 5.1 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

| Sample ID: CTMW-04S-20170823 | | Collected: AM | | | Analysis Type: RES/DIS | | | Dilution: 1 | |
|-------------------------------------|------------|----------------------|------|---------|-------------------------------|---------|-------|--------------------|-------------|
| 8/23/2017 10:30:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 1.6 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| SELENIUM | 1.4 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 16 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| | | | | | | | | | | |
|-------------------------|----------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | VOA | | | | | | | | | |
| Method: | 8260B LL | Matrix: | | AQ | | | | | | |

| Sample ID: CTMW-03S-20170823 | | Collected: PM | | | Analysis Type: RES | | | Dilution: 10 | |
|-------------------------------------|------------|----------------------|-----|---------|---------------------------|---------|-------|---------------------|-------------|
| 8/23/2017 1:55:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 19 | J | 8.8 | MDL | 20 | MRL | ug/L | J | sp |

| Sample ID: CTMW-04D-20170823 | | Collected: AM | | | Analysis Type: RES | | | Dilution: 20 | |
|-------------------------------------|------------|----------------------|----|---------|---------------------------|---------|-------|---------------------|-------------|
| 8/23/2017 9:20:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 24 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

| Sample ID: CTMW-04D-20170823-FD | | Collected: AM | | | Analysis Type: RES | | | Dilution: 20 | |
|--|------------|----------------------|----|---------|---------------------------|---------|-------|---------------------|-------------|
| 8/23/2017 9:20:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METH LENE CHLORIDE | 27 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190847-1

Laboratory: TA IRV

EDD Filename: 440-190847-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| f | Matrix Spike Precision |
| fd | Field Duplicate Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

9/12/2017 8:16:52 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-190950-1

Laboratory: TA IRV

EDD Filename: 440-190950-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

Sample ID: CTMW-01S-20170824 Collected: 8/24/2017 11:45:00 AM Analysis Type: RES Dilution: 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| Nitrate as N | 4.8 | J | 2.8 | MDL | 5.5 | MRL | mg/L | J | sp |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

Sample ID: CTMW-02D-20170824 Collected: 8/24/2017 8:35:00 AM Analysis Type: RE2 Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 3500000 | | 100000 | MDL | 200000 | MRL | ug/L | J | m, m |

Sample ID: CTMW-02D-20170824 Collected: 8/24/2017 8:35:00 AM Analysis Type: RES Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Chlorite | 10000 | U | 10000 | MDL | 20000 | MRL | ug/L | R | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

Sample ID: CTMW-02D-20170824 Collected: 8/24/2017 8:35:00 AM Analysis Type: RES Dilution: 5000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 1200000 | | 25000 | MDL | 50000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

Sample ID: CTMW-01D-20170824 Collected: 8/24/2017 10:05:00 AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

Sample ID: CTMW-01S-20170824 Collected: 8/24/2017 11:45:00 AM Analysis Type: RES Dilution: 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 9500 | | 250 | MDL | 500 | MRL | mg/L | J- | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190950-1

Laboratory: TA IRV

EDD Filename: 440-190950-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

| Sample ID: CTMW-02D-20170824 | Collected: AM | 8/24/2017 8:35:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total jeldahl Nitrogen | 0.10 | U F1 | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-01D-20170824 | Collected: AM | 8/24/2017 10:05:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.10 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.31 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| Sample ID: CTMW-01S-20170824 | Collected: AM | 8/24/2017 11:45:00 | Analysis Type: RES | Dilution: 10 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|---------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 5.6 | | 0.20 | MDL | 0.50 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 17 | | 0.60 | MDL | 1.5 | MRL | mg/L | J- | m |

| Sample ID: CTMW-02D-20170824 | Collected: AM | 8/24/2017 8:35:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Orthophosphate as P | 0.10 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.32 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 5220D | Matrix: AQ |

| Sample ID: CTMW-01D-20170824 | Collected: AM | 8/24/2017 10:05:00 | Analysis Type: RES | Dilution: 5 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chemical Oxygen Demand | 480 | | 50 | MDL | 100 | MRL | mg/L | J- | m |

| Sample ID: CTMW-01S-20170824 | Collected: AM | 8/24/2017 11:45:00 | Analysis Type: RES | Dilution: 100 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|----------------------|------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chemical Oxygen Demand | 17000 | | 1000 | MDL | 2000 | MRL | mg/L | J- | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190950-1

Laboratory: TA IRV

EDD Filename: 440-190950-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 5220D | Matrix: AQ |

8/24/2017 8:35:00

Sample ID: CTMW-02D-20170824 Collected: AM Analysis Type: RES Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|----|---------|-----|---------|-------|------------------|-------------|
| Chemical Oxygen Demand | 50 | U F1 | 50 | MDL | 100 | MRL | mg/L | R | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

8/24/2017 10:05:00

Sample ID: CTMW-01D-20170824 Collected: AM Analysis Type: RES Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| Propionic acid | 7.0 | J | 7.0 | MDL | 20 | MRL | mg/L | J | sp |

8/24/2017 8:35:00

Sample ID: CTMW-02D-20170824 Collected: AM Analysis Type: RES Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| Acetic acid | 7.0 | J | 5.8 | MDL | 20 | MRL | mg/L | J | sp |
| Pyruvic acid | 7.4 | U F1 | 7.4 | MDL | 30 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

8/24/2017 10:05:00

Sample ID: CTMW-01D-20170824 Collected: AM Analysis Type: RES/TOT Dilution: 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| IRON | 0.17 | J | 0.10 | MDL | 0.20 | MRL | mg/L | J | sp |

8/24/2017 8:35:00

Sample ID: CTMW-02D-20170824 Collected: AM Analysis Type: RES/TOT Dilution: 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|-------|---------|-------|------------------|-------------|
| CHROMIUM | 16 | | 0.0050 | MDL | 0.010 | MRL | mg/L | J+ | m |
| IRON | 0.17 | J | 0.10 | MDL | 0.20 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190950-1

Laboratory: TA IRV

EDD Filename: 440-190950-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

8/24/2017 10:05:00
Sample ID:CTMW-01D-20170824 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| NIC EL | 8.0 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| SELENIUM | 6.0 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |

8/24/2017 11:45:00
Sample ID:CTMW-01S-20170824 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| VANADIUM | 19 | J | 10 | MDL | 20 | MRL | ug/L | J | sp |

8/24/2017 8:35:00
Sample ID:CTMW-02D-20170824 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| CHROMIUM | 15000 | | 5.0 | MDL | 20 | MRL | ug/L | J- | m |
| MANGANESE | 400 | | 5.0 | MDL | 10 | MRL | ug/L | J- | m |
| NIC EL | 9.2 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| SELENIUM | 7.8 | J | 5.0 | MDL | 20 | MRL | ug/L | J | sp |
| VANADIUM | 10 | U L F1 | 10 | MDL | 20 | MRL | ug/L | R | m |
| INC | 33 | J | 25 | MDL | 200 | MRL | ug/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

8/24/2017 8:35:00
Sample ID:CTMW-02D-20170824 **Collected:**AM **Analysis Type:**RES/TOT **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|-----|---------|------|---------|-------|------------------|-------------|
| Chromium, hexavalent | 14000 | | 250 | MDL | 2000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

8/24/2017 10:05:00
Sample ID:CTMW-01D-20170824 **Collected:**AM **Analysis Type:**RES **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| ACETONE | 320 | J | 200 | MDL | 400 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190950-1

Laboratory: TA IRV

EDD Filename: 440-190950-1

eQAPP Name: TetraTechInc_NERT_07272017

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID: CTMW-01S-20170824
 Collected: AM
 8/24/2017 11:45:00
 Analysis Type: RES
 Dilution: 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|-----|---------|------|---------|-------|------------------|-------------|
| ACETONE | 630 | J | 500 | MDL | 1000 | MRL | ug/L | J | sp |
| METH LENE CHLORIDE | 78 | J | 44 | MDL | 100 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-190950-1

Laboratory: TA IRV

EDD Filename: 440-190950-1

eQAPP Name: TetraTechInc_NERT_07272017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|---|
| bl | Method Blank Contamination |
| d | Laboratory Control Spike Upper Estimation |
| l | Laboratory Control Spike Upper Estimation |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

9/12/2017 3:43:46 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-192518-1

Laboratory: TA IRV

EDD Filename: 440-192518-1

eQAPP Name: TetraTechInc_NERT_10062017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-05S-20170919 | Collected: PM | 9/19/2017 1:50:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.037 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| Sample ID: CTMW-06D-20170919 | Collected: AM | 9/19/2017 8:00:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.034 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| Sample ID: CTMW-06D-20170919-FD | Collected: AM | 9/19/2017 8:00:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|--|----------------------|--------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.040 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

| Sample ID: CTMW-05D-20170919 | Collected: AM | 9/19/2017 11:35:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|---------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| Sample ID: CTMW-05S-20170919 | Collected: PM | 9/19/2017 1:50:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| Sample ID: CTMW-06D-20170919 | Collected: AM | 9/19/2017 8:00:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U F1 | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| Sample ID: CTMW-06D-20170919-FD | Collected: AM | 9/19/2017 8:00:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|--|----------------------|--------------------------|---------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-192518-1

Laboratory: TA IRV

EDD Filename: 440-192518-1

eQAPP Name: TetraTechInc_NERT_10062017

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

Sample ID: CTMW-06S-20170919 Collected: 9/19/2017 9:50:00 AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

Sample ID: CTMW-05D-20170919 Collected: 9/19/2017 11:35:00 AM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| MANGANESE | 0.016 | J | 0.015 | MDL | 0.020 | MRL | mg/L | J | sp |

Sample ID: CTMW-06D-20170919 Collected: 9/19/2017 8:00:00 AM Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 13 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: CTMW-05D-20170919 Collected: 9/19/2017 11:35:00 AM Analysis Type: RES/DIS Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| NIC EL | 3.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 5.6 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

Sample ID: CTMW-05S-20170919 Collected: 9/19/2017 1:50:00 PM Analysis Type: RES/DIS Dilution: 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| COBALT | 1.3 | J | 1.0 | MDL | 2.0 | MRL | ug/L | J | sp |
| COPPER | 2.8 | J | 1.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| INC | 9.3 | J | 5.0 | MDL | 40 | MRL | ug/L | J | sp |

Sample ID: CTMW-06D-20170919 Collected: 9/19/2017 8:00:00 AM Analysis Type: RE3/DIS Dilution: 100

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| VANADIUM | 100 | U | 100 | MDL | 200 | MRL | ug/L | R | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-192518-1

Laboratory: TA IRV

EDD Filename: 440-192518-1

eQAPP Name: TetraTechInc_NERT_10062017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID:CTMW-06D-20170919 | | 9/19/2017 8:00:00 Collected:AM | | | Analysis Type:RES/DIS | | | Dilution: 5 | |
|-----------------------------|------------|-----------------------------------|-----|---------|-----------------------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 25 | U F2 F1 | 25 | MDL | 50 | MRL | ug/L | UJ | ld |
| CHROMIUM | 13000 | | 2.5 | MDL | 10 | MRL | ug/L | J- | m |
| NIC EL | 5.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 11 | | 2.5 | MDL | 10 | MRL | ug/L | J | fd |
| SILVER | 36 | F1 B | 2.5 | MDL | 5.0 | MRL | ug/L | J- | m, fd |

| Sample ID:CTMW-06D-20170919-FD | | 9/19/2017 8:00:00 Collected:AM | | | Analysis Type:RES/DIS | | | Dilution: 5 | |
|--------------------------------|------------|-----------------------------------|-----|---------|-----------------------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| NIC EL | 5.7 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 5.1 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp, fd |
| SILVER | 2.5 | U | 2.5 | MDL | 5.0 | MRL | ug/L | UJ | fd |

| Sample ID:CTMW-06S-20170919 | | 9/19/2017 9:50:00 Collected:AM | | | Analysis Type:RE2/DIS | | | Dilution: 2 | |
|-----------------------------|------------|-----------------------------------|-----|---------|-----------------------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| VANADIUM | 2.0 | J | 2.0 | MDL | 4.0 | MRL | ug/L | J | sp |

| Sample ID:CTMW-06S-20170919 | | 9/19/2017 9:50:00 Collected:AM | | | Analysis Type:RES/DIS | | | Dilution: 2 | |
|-----------------------------|------------|-----------------------------------|-----|---------|-----------------------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ANTIMON | 1.9 | J | 1.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| COBALT | 1.3 | J | 1.0 | MDL | 2.0 | MRL | ug/L | J | sp |
| COPPER | 2.9 | J | 1.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| SELENIUM | 1.1 | J | 1.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| URANIUM | 1.4 | J | 1.0 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 16 | J | 5.0 | MDL | 40 | MRL | ug/L | J | sp |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

| Sample ID:CTMW-06D-20170919 | | 9/19/2017 8:00:00 Collected:AM | | | Analysis Type:RES | | | Dilution: 20 | |
|-----------------------------|------------|-----------------------------------|-----|---------|-------------------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| 1,2,3-TRICHLOROBEN ENE | 8.0 | U | 8.0 | MDL | 20 | MRL | ug/L | UJ | fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-192518-1

Laboratory: TA IRV

EDD Filename: 440-192518-1

eQAPP Name: TetraTechInc_NERT_10062017

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID: CTMW-06D-20170919
 Collected: 9/19/2017 8:00:00 AM
 Analysis Type: RES
 Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------------------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| 1,2-DICHLOROBEN ENE | 5.0 | U | 5.0 | MDL | 10 | MRL | ug/L | UJ | fd |
| 1,3-DICHLOROBEN ENE | 5.0 | U | 5.0 | MDL | 10 | MRL | ug/L | UJ | fd |
| 1,4-DICHLOROBEN ENE | 5.0 | U | 5.0 | MDL | 10 | MRL | ug/L | UJ | fd |
| 2-BUTANONE (ME) | 50 | U | 50 | MDL | 100 | MRL | ug/L | UJ | fd |
| ACETONE | 200 | U | 200 | MDL | 400 | MRL | ug/L | UJ | fd |
| BROMODICHLOROMETHANE | 5.0 | U | 5.0 | MDL | 10 | MRL | ug/L | UJ | fd |
| CARBON TETRACHLORIDE | 5.0 | U | 5.0 | MDL | 10 | MRL | ug/L | UJ | fd |
| HEXACHLOROBUTADIENE | 5.0 | U | 5.0 | MDL | 10 | MRL | ug/L | UJ | fd |
| METH LENE CHLORIDE | 18 | U | 18 | MDL | 40 | MRL | ug/L | UJ | fd |
| Methyl-t-Butyl Ether (MTBE) | 5.0 | U | 5.0 | MDL | 10 | MRL | ug/L | UJ | fd |
| TETRACHLOROETHENE | 5.0 | U | 5.0 | MDL | 10 | MRL | ug/L | UJ | fd |
| TRICHLOROETHENE | 5.0 | U | 5.0 | MDL | 10 | MRL | ug/L | UJ | fd |

Sample ID: CTMW-06D-20170919-FD
 Collected: 9/19/2017 8:00:00 AM
 Analysis Type: RES
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| 1,2,3-TRICHLOROBEN ENE | 0.72 | J | 0.40 | MDL | 1.0 | MRL | ug/L | J | sp, fd |
| 1,2-DICHLOROBEN ENE | 3.6 | | 0.25 | MDL | 0.50 | MRL | ug/L | J | fd |
| 1,3-DICHLOROBEN ENE | 0.32 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp, fd |
| 1,4-DICHLOROBEN ENE | 1.0 | | 0.25 | MDL | 0.50 | MRL | ug/L | J | fd |
| 2-BUTANONE (ME) | 150 | | 2.5 | MDL | 5.0 | MRL | ug/L | J | fd |
| ACETONE | 250 | | 10 | MDL | 20 | MRL | ug/L | J | fd |
| BROMODICHLOROMETHANE | 0.27 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp, fd |
| CARBON TETRACHLORIDE | 0.54 | | 0.25 | MDL | 0.50 | MRL | ug/L | J | fd |
| HEXACHLOROBUTADIENE | 0.45 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp, fd |
| METH LENE CHLORIDE | 1.1 | J | 0.88 | MDL | 2.0 | MRL | ug/L | J | sp, fd |
| Methyl-t-Butyl Ether (MTBE) | 0.68 | | 0.25 | MDL | 0.50 | MRL | ug/L | J | fd |
| TETRACHLOROETHENE | 0.44 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp, fd |
| TRICHLOROETHENE | 1.0 | | 0.25 | MDL | 0.50 | MRL | ug/L | J | fd |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-192518-1

Laboratory: TA IRV

EDD Filename: 440-192518-1

eQAPP Name: TetraTechInc_NERT_10062017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | VOA | |
| Method: | RSK-175 | Matrix: AQ |

| Sample ID: CTMW-06D-20170919 | Collected: AM | 9/19/2017 8:00:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|-------------------|---------------------------|--------------------|---------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Methane (FID) | 0.00034 | J | 0.00025 | MDL | 0.00099 | MRL | mg/L | J | sp |

| Sample ID: CTMW-06D-20170919-FD | Collected: AM | 9/19/2017 8:00:00 | Analysis Type: RES | Dilution: 1 | | | | | |
|--|----------------------|-------------------|---------------------------|--------------------|---------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Methane (FID) | 0.00033 | J | 0.00025 | MDL | 0.00099 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

10/10/2017 11:11:36 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-192518-1

Laboratory: TA IRV

EDD Filename: 440-192518-1

eQAPP Name: TetraTechInc_NERT_10062017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| f | Matrix Spike Precision |
| fd | Field Duplicate Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

10/10/2017 11:11:36 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-192617-1

Laboratory: TA IRV

EDD Filename: 440-192617-1

eQAPP Name: TetraTechInc_NERT_10062017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID: CTMW-02D-20170920
 Collected: 9/20/2017 11:00:00 AM
 Analysis Type: RES
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.21 | F1 F2 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m, ld |
| Orthophosphorus as PO4 | 0.65 | F1 F2 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m, ld |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: CTMW-02D-20170920
 Collected: 9/20/2017 11:00:00 AM
 Analysis Type: RES/DIS
 Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| CHROMIUM | 13000 | | 2.5 | MDL | 10 | MRL | ug/L | J- | m |
| COPPER | 3.0 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| IRON | 60 | J B | 40 | MDL | 100 | MRL | ug/L | J | sp |
| MANGANESE | 380 | | 2.5 | MDL | 5.0 | MRL | ug/L | J- | m |
| NIC EL | 6.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 4.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| VANADIUM | 5.0 | U L F1 | 5.0 | MDL | 10 | MRL | ug/L | R | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-192617-1

Laboratory: TA IRV

EDD Filename: 440-192617-1

eQAPP Name: TetraTechInc_NERT_10062017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| f | Matrix Spike Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

10/10/2017 11:14:23 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-192619-1

Laboratory: TA IRV

EDD Filename: 440-192619-1

eQAPP Name: TetraTechInc_NERT_10062017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

9/20/2017 8:30:00
Sample ID:CTMW-01S-20170920 **Collected:**AM **Analysis Type:**RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.79 | J | 0.50 | MDL | 1.0 | MRL | mg/L | J | sp |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

9/20/2017 8:30:00
Sample ID:CTMW-01S-20170920 **Collected:**AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.035 | J | 0.027 | MDL | 0.050 | MRL | mg/L | J | sp |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

9/20/2017 7:25:00
Sample ID:CTMW-01D-20170920 **Collected:**AM **Analysis Type:**RES **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| Formic-acid | 2.6 | U F2 | 2.6 | MDL | 10 | MRL | mg/L | UJ | ld |
| Pyruvic acid | 3.7 | U F1 F2 | 3.7 | MDL | 15 | MRL | mg/L | UJ | m, ld |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

9/20/2017 7:25:00
Sample ID:CTMW-01D-20170920 **Collected:**AM **Analysis Type:**RES/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 13 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J- | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

9/20/2017 7:25:00
Sample ID:CTMW-01D-20170920 **Collected:**AM **Analysis Type:**RES/DIS **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| COPPER | 3.0 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-192619-1

Laboratory: TA IRV

EDD Filename: 440-192619-1

eQAPP Name: TetraTechInc_NERT_10062017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| | 9/20/2017 7:25:00 | Collected: AM | Analysis Type: RES/DIS | Dilution: 5 | | | | | |
|------------------------------|-------------------|---------------|------------------------|-------------|-----|---------|-------|------------------|-------------|
| Sample ID: CTMW-01D-20170920 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 83 | J B | 40 | MDL | 100 | MRL | ug/L | J | sp |
| NIC EL | 7.4 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 5.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

| | 9/20/2017 8:30:00 | Collected: AM | Analysis Type: RES/DIS | Dilution: 5 | | | | | |
|------------------------------|-------------------|---------------|------------------------|-------------|-----|---------|-------|------------------|-------------|
| Sample ID: CTMW-01S-20170920 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ANTIMON | 4.2 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| COBALT | 2.8 | J | 2.5 | MDL | 5.0 | MRL | ug/L | J | sp |
| COPPER | 3.0 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| VANADIUM | 8.1 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |

| | 9/20/2017 1:45:00 | Collected: PM | Analysis Type: RES/DIS | Dilution: 5 | | | | | |
|------------------------------|-------------------|---------------|------------------------|-------------|-----|---------|-------|------------------|-------------|
| Sample ID: CTMW-02S-20170920 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ANTIMON | 3.0 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| VANADIUM | 9.8 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 14 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

| | 9/20/2017 1:30:00 | Collected: PM | Analysis Type: RES/DIS | Dilution: 5 | | | | | |
|------------------------------|-------------------|---------------|------------------------|-------------|-----|---------|-------|------------------|-------------|
| Sample ID: CTMW-04D-20170920 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 90 | J B | 40 | MDL | 100 | MRL | ug/L | J | sp |
| NIC EL | 4.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 5.2 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

| | 9/20/2017 8:30:00 | Collected: AM | Analysis Type: RES/DIS | Dilution: 1 | | | | | |
|------------------------------|-------------------|---------------|------------------------|-------------|-----|---------|-------|------------------|-------------|
| Sample ID: CTMW-01S-20170920 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Chromium, hexavalent | 0.37 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-192619-1

Laboratory: TA IRV

EDD Filename: 440-192619-1

eQAPP Name: TetraTechInc_NERT_10062017

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID: CTMW-01S-20170920
 Collected: 9/20/2017 8:30:00 AM
 Analysis Type: RES
 Dilution: 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------|------------|----------|-----|---------|------|---------|-------|------------------|-------------|
| ACETONE | 750 | J | 500 | MDL | 1000 | MRL | ug/L | J | sp |
| CHLOROFORM | 19 | J | 13 | MDL | 25 | MRL | ug/L | J | sp |

Sample ID: CTMW-02S-20170920
 Collected: 9/20/2017 1:45:00 PM
 Analysis Type: RES
 Dilution: 25

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| METH LENE CHLORIDE | 25 | J | 22 | MDL | 50 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-192619-1

Laboratory: TA IRV

EDD Filename: 440-192619-1

eQAPP Name: TetraTechInc_NERT_10062017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| f | Matrix Spike Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-192711-1

Laboratory: TA IRV

EDD Filename: 440-192711-1

eQAPP Name: TetraTechInc_NERT_10062017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

Sample ID: CTMW-04S-20170921 Collected: AM 9/21/2017 7:20:00 Analysis Type: RES2 Dilution: 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| SULFATE | 390 | F1 | 5.0 | MDL | 10 | MRL | mg/L | J+ | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

Sample ID: CTMW-03D-20170921 Collected: AM 9/21/2017 9:40:00 Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.055 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.17 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

Sample ID: CTMW-03S-20170921 Collected: AM 9/21/2017 8:30:00 Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.18 | | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.54 | | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

Sample ID: CTMW-04S-20170921 Collected: AM 9/21/2017 7:20:00 Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.036 | J | 0.020 | MDL | 0.050 | MRL | mg/L | J- | sp, m |
| Orthophosphorus as PO4 | 0.11 | J | 0.060 | MDL | 0.15 | MRL | mg/L | J- | sp, m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: CTMW-03D-20170921 Collected: AM 9/21/2017 9:40:00 Analysis Type: RES/DIS Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| NIC EL | 3.1 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 6.0 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 440-192711-1

Laboratory: TA IRV

EDD Filename: 440-192711-1

eQAPP Name: TetraTechInc_NERT_10062017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: CTMW-03S-20170921 Collected: 9/21/2017 8:30:00 AM Analysis Type: RES/DIS Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| CHROMIUM | 14000 | | 2.5 | MDL | 10 | MRL | ug/L | J+ | m |
| COPPER | 4.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| NIC EL | 4.6 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 8.6 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SILVER | 57 | F1 F2 | 2.5 | MDL | 5.0 | MRL | ug/L | J- | m, ld |
| VANADIUM | 5.0 | U L F1 | 5.0 | MDL | 10 | MRL | ug/L | R | m |

Sample ID: CTMW-04S-20170921 Collected: 9/21/2017 7:20:00 AM Analysis Type: RES/DIS Dilution: 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 1.3 | J | 1.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| COPPER | 1.9 | J | 1.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| SELENIUM | 1.3 | J | 1.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| VANADIUM | 3.8 | J | 2.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| INC | 5.0 | J | 5.0 | MDL | 40 | MRL | ug/L | J | sp |

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

Sample ID: CTMW-03D-20170921 Collected: 9/21/2017 9:40:00 AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| TETRACHLOROETHENE | 0.37 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |

Sample ID: CTMW-04S-20170921 Collected: 9/21/2017 7:20:00 AM Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-----------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| METHYLENE CHLORIDE | 1.7 | J | 0.88 | MDL | 2.0 | MRL | ug/L | J | sp |
| Methyl-t-Butyl Ether (MTBE) | 0.49 | J | 0.25 | MDL | 0.50 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-192711-1

Laboratory: TA IRV

EDD Filename: 440-192711-1

eQAPP Name: TetraTechInc_NERT_10062017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| f | Matrix Spike Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193441-1

Laboratory: TA IRV

EDD Filename: 440-193441-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.0 | Matrix: AQ |

10/3/2017 10:00:00
Sample ID: CTMW-02S-20171003 **Collected:** AM **Analysis Type:** RES2 **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| SULFATE | 6.5 | J | 5.0 | MDL | 10 | MRL | mg/L | J | sp |

10/3/2017 2:00:00
Sample ID: CTMW-04S-20171003 **Collected:** PM **Analysis Type:** RES **Dilution:** 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| Nitrate as N | 5.3 | J | 2.8 | MDL | 5.5 | MRL | mg/L | J | sp |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

10/3/2017 9:30:00
Sample ID: CTMW-01S-20171003 **Collected:** AM **Analysis Type:** RES2 **Dilution:** 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|------|---------|-------|------------------|-------------|
| Chlorate | 610 | J | 500 | MDL | 1000 | MRL | ug/L | J | sp |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

10/3/2017 9:30:00
Sample ID: CTMW-01S-20171003 **Collected:** AM **Analysis Type:** RES **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 150 | F1 | 5.0 | MDL | 10 | MRL | ug/L | J+ | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

10/3/2017 1:20:00
Sample ID: CTMW-03S-20171003 **Collected:** PM **Analysis Type:** RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.049 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193441-1

Laboratory: TA IRV

EDD Filename: 440-193441-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

10/3/2017 8:25:00
Sample ID: CTMW-01D-20171003 **Collected:** AM **Analysis Type:** RES **Dilution:** 20

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| Propionic acid | 33 | F1 | 7.0 | MDL | 20 | MRL | mg/L | J+ | m |
| Pyruvic acid | 7.4 | U F1 | 7.4 | MDL | 30 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6010B | Matrix: AQ |

10/3/2017 11:35:00
Sample ID: CTMW-03D-20171003 **Collected:** AM **Analysis Type:** RES/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-------|---------|------|---------|-------|------------------|-------------|
| IRON | 0.095 | J | 0.050 | MDL | 0.10 | MRL | mg/L | J | sp |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

10/3/2017 8:25:00
Sample ID: CTMW-01D-20171003 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| ALUMINUM | 6.2 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |
| ANTIMON | 0.54 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| COBALT | 0.50 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 0.58 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 3.7 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

10/3/2017 9:30:00
Sample ID: CTMW-01S-20171003 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| COPPER | 2.8 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 16 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

10/3/2017 8:40:00
Sample ID: CTMW-02D-20171003 **Collected:** AM **Analysis Type:** RES/DIS **Dilution:** 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| NIC EL | 7.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 3.4 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 39 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193441-1

Laboratory: TA IRV

EDD Filename: 440-193441-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | | | | | | | | | |
|-------------------------|--------|--|--|-------------------|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | | | Matrix: AQ | | | | | | |

| Sample ID: CTMW-02S-20171003 | | Collected: AM | | | Analysis Type: RES/DIS | | | Dilution: 2 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 10/3/2017 10:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ANTIMON | 2.5 | J | 1.0 | MDL | 4.0 | MRL | ug/L | J | sp |
| LEAD | 1.2 | J | 1.0 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 22 | J | 5.0 | MDL | 40 | MRL | ug/L | J | sp |

| Sample ID: CTMW-03D-20171003 | | Collected: AM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 10/3/2017 11:35:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| NIC EL | 3.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 3.4 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 29 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

| Sample ID: CTMW-03S-20171003 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 10/3/2017 1:20:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| NIC EL | 6.5 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 3.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 31 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

| Sample ID: CTMW-04D-20171003 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 10/3/2017 12:15:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 8.6 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| NIC EL | 4.0 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 3.2 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 19 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

| Sample ID: CTMW-04S-20171003 | | Collected: PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | |
|-------------------------------------|------------|----------------------|-----|---------|-------------------------------|---------|-------|--------------------|-------------|
| 10/3/2017 2:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| IRON | 62 | J | 40 | MDL | 100 | MRL | ug/L | J | sp |
| NIC EL | 2.5 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 21 | J | 13 | MDL | 100 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193441-1

Laboratory: TA IRV

EDD Filename: 440-193441-1

eQAPP Name: TetraTechInc_NERT_06262017

| | | |
|-------------------------|----------|-------------------|
| Method Category: | VOA | |
| Method: | 8260B LL | Matrix: AQ |

| Sample ID: CTMW-01D-20171003 | | Collected: AM | | | Analysis Type: RES | | | Dilution: 40 | |
|-------------------------------------|------------|----------------------|-----|---------|---------------------------|---------|-------|---------------------|-------------|
| 10/3/2017 8:25:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ACETONE | 560 | J | 400 | MDL | 800 | MRL | ug/L | J | sp |

| Sample ID: CTMW-01S-20171003 | | Collected: AM | | | Analysis Type: RES | | | Dilution: 100 | |
|-------------------------------------|------------|----------------------|----|---------|---------------------------|---------|-------|----------------------|-------------|
| 10/3/2017 9:30:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| 1,1-DICHLOROETHENE | 35 | J | 25 | MDL | 50 | MRL | ug/L | J | sp |
| METHYLENE CHLORIDE | 140 | J | 88 | MDL | 200 | MRL | ug/L | J | sp |

| Sample ID: CTMW-02D-20171003 | | Collected: AM | | | Analysis Type: RES | | | Dilution: 40 | |
|-------------------------------------|------------|----------------------|----|---------|---------------------------|---------|-------|---------------------|-------------|
| 10/3/2017 8:40:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| 1,4-DICHLOROBENZENE | 10 | J | 10 | MDL | 20 | MRL | ug/L | J | sp |

| Sample ID: CTMW-02S-20171003 | | Collected: AM | | | Analysis Type: RES | | | Dilution: 20 | |
|-------------------------------------|------------|----------------------|----|---------|---------------------------|---------|-------|---------------------|-------------|
| 10/3/2017 10:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| METHYLENE CHLORIDE | 27 | J | 18 | MDL | 40 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

10/24/2017 4:00:00 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193441-1

Laboratory: TA IRV

EDD Filename: 440-193441-1

eQAPP Name: TetraTechInc_NERT_06262017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

10/24/2017 4:00:00 PM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193508-1

Laboratory: TA IRV

EDD Filename: 440-193508-1

eQAPP Name: TetraTechInc_NERT_11102017

| | | | | | | | | | | |
|-------------------------|--------|--|--|-------------------|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6010B | | | Matrix: AQ | | | | | | |

| Sample ID DCTMW-06S-20171004 | Collected 10/4/2017 9:00:00 AM | Analysis Type: RES/TOT | Dilution: 1 | | | | | | |
|-------------------------------------|---------------------------------------|-------------------------------|--------------------|---------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| MANGANESE | 7.1 | | 0.015 | MDL | 0.020 | MRL | mg/L | J- | m |
| IRON | 49 | | 0.050 | MDL | 0.10 | MRL | mg/L | J- | m |

| | | | | | | | | | | |
|-------------------------|--------|--|--|-------------------|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | | | Matrix: AQ | | | | | | |

| Sample ID DCTMW-06S-20171004 | Collected 10/4/2017 9:00:00 AM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|---------------------------------------|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 7.2 | J | 5.0 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 0.82 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| VANADIUM | 1.4 | J | 1.0 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 3.3 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| | | | | | | | | | | |
|-------------------------|----------|--|--|-------------------|--|--|--|--|--|--|
| Method Category: | VOA | | | | | | | | | |
| Method: | 8260B LL | | | Matrix: AQ | | | | | | |

| Sample ID DCTMW-06S-20171004 | Collected 10/4/2017 9:00:00 AM | Analysis Type: RES | Dilution: 10 | | | | | | |
|-------------------------------------|---------------------------------------|---------------------------|---------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| BEN ENE | 2.6 | J | 2.5 | MDL | 5.0 | MRL | ug/L | J | sp |
| METHYLENE CHLORIDE | 13 | J | 8.8 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193508-1

Laboratory: TA IRV

EDD Filename: 440-193508-1

eQAPP Name: TetraTechInc_NERT_11102017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|--------------------------------|
| bl | Method Blank Contamination |
| m | Matrix Spike Low er Estimation |
| m | Matrix Spike Low er Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

11/13/2017 11:52:38 AM

ADR version 1.9.0.325

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193514-1

Laboratory: TA IRV

EDD Filename: 440-193514-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

| Sample ID: CTMW-06D-20171004 | Collected: AM | 10/4/2017 7:30:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.025 | U | 0.025 | MDL | 0.050 | MRL | mg/L | UJ | fd |

| Sample ID: CTMW-06D-20171004-FD | Collected: AM | 10/4/2017 7:30:00 | Analysis Type: RES2 | Dilution: 1 | | | | | |
|--|----------------------|--------------------------|----------------------------|--------------------|-------|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Phosphorus, Total | 0.029 | J | 0.025 | MDL | 0.050 | MRL | mg/L | J | sp, fd |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

| Sample ID: CTMW-06D-20171004 | Collected: AM | 10/4/2017 7:30:00 | Analysis Type: RES | Dilution: 10 | | | | | |
|-------------------------------------|----------------------|--------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Lactic Acid | 3.1 | U | 3.1 | MDL | 10 | MRL | mg/L | UJ | fd |
| n-Butyric acid | 16 | | 2.6 | MDL | 10 | MRL | mg/L | J | fd |
| Propionic acid | 3.5 | U | 3.5 | MDL | 10 | MRL | mg/L | UJ | fd |

| Sample ID: CTMW-06D-20171004-FD | Collected: AM | 10/4/2017 7:30:00 | Analysis Type: RES | Dilution: 10 | | | | | |
|--|----------------------|--------------------------|---------------------------|---------------------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Lactic Acid | 11 | | 3.1 | MDL | 10 | MRL | mg/L | J | fd |
| n-Butyric acid | 2.6 | U | 2.6 | MDL | 10 | MRL | mg/L | UJ | fd |
| Propionic acid | 26 | | 3.5 | MDL | 10 | MRL | mg/L | J | fd |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: CTMW-05S-20171004 | Collected: AM | 10/4/2017 8:25:00 | Analysis Type: RES/DIS | Dilution: 1 | | | | | |
|-------------------------------------|----------------------|--------------------------|-------------------------------|--------------------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COBALT | 0.52 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| IRON | 17 | J | 8.0 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193514-1

Laboratory: TA IRV

EDD Filename: 440-193514-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: CTMW-06D-20171004
 Collected: AM
 10/4/2017 7:30:00
 Analysis Type: RES/DIS
 Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| ALUMINUM | 25 | U | 25 | MDL | 50 | MRL | ug/L | UJ | fd |
| NIC EL | 2.7 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 4.1 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

Sample ID: CTMW-06D-20171004-FD
 Collected: AM
 10/4/2017 7:30:00
 Analysis Type: RES/DIS
 Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| ALUMINUM | 35 | J | 25 | MDL | 50 | MRL | ug/L | J | sp, fd |
| NIC EL | 2.6 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| SELENIUM | 4.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193514-1

Laboratory: TA IRV

EDD Filename: 440-193514-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| fd | Field Duplicate Precision |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193514-2

Laboratory: TA IRV

EDD Filename: 440-193514-2

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

10/4/2017 7:40:00
Sample ID:CTMW-05D-20171004 **Collected:**AM **Analysis Type:**RES **Dilution:** 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Chlorite | 10000 | U | 10000 | MDL | 20000 | MRL | ug/L | R | m |

10/4/2017 7:40:00
Sample ID:CTMW-05D-20171004 **Collected:**AM **Analysis Type:**RES2 **Dilution:** 0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| Chlorate | 3400000 | | 100000 | MDL | 200000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0 | Matrix: AQ |

10/4/2017 7:40:00
Sample ID:CTMW-05D-20171004 **Collected:**AM **Analysis Type:**RES **Dilution:** 0

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-------|---------|-------|------------------|-------------|
| PERCHLORATE | 650000 | | 5000 | MDL | 10000 | MRL | ug/L | J- | m, m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 351.2 | Matrix: AQ |

10/4/2017 7:40:00
Sample ID:CTMW-05D-20171004 **Collected:**AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|------|---------|------|---------|-------|------------------|-------------|
| Total jeldahl Nitrogen | 0.10 | U F1 | 0.10 | MDL | 0.20 | MRL | mg/L | R | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

10/4/2017 7:40:00
Sample ID:CTMW-05D-20171004 **Collected:**AM **Analysis Type:**RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Orthophosphate as P | 0.077 | F1 | 0.020 | MDL | 0.050 | MRL | mg/L | J- | m |
| Orthophosphorus as PO4 | 0.24 | F1 | 0.060 | MDL | 0.15 | MRL | mg/L | J- | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193514-2

Laboratory: TA IRV

EDD Filename: 440-193514-2

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 365.3 | Matrix: AQ |

10/4/2017 7:40:00
Sample ID: CTMW-05D-20171004 **Collected:** AM **Analysis Type:** RES2 **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Phosphorus, Total | 0.025 | U F1 | 0.025 | MDL | 0.050 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 5220D | Matrix: AQ |

10/4/2017 7:40:00
Sample ID: CTMW-05D-20171004 **Collected:** AM **Analysis Type:** RES **Dilution:** 2

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|------------------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| Chemical Oxygen Demand | 20 | U F1 | 20 | MDL | 40 | MRL | mg/L | R | m |

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

10/4/2017 7:40:00
Sample ID: CTMW-05D-20171004 **Collected:** AM **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|-------|---------|-------|---------|-------|------------------|-------------|
| Total Sulfide | 0.027 | U F1 | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | VFA_IC | Matrix: AQ |

10/4/2017 7:40:00
Sample ID: CTMW-05D-20171004 **Collected:** AM **Analysis Type:** RES **Dilution:** 10

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| Lactic Acid | 3.1 | U F1 | 3.1 | MDL | 10 | MRL | mg/L | UJ | m |
| Propionic acid | 3.5 | U F1 | 3.5 | MDL | 10 | MRL | mg/L | UJ | m |

10/4/2017 7:40:00
Sample ID: CTMW-05D-20171004 **Collected:** AM **Analysis Type:** RES2 **Dilution:** 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|--------------|------------|----------|----|---------|----|---------|-------|------------------|-------------|
| Pyruvic acid | 19 | U F1 | 19 | MDL | 75 | MRL | mg/L | UJ | m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193514-2

Laboratory: TA IRV

EDD Filename: 440-193514-2

eQAPP Name: TetraTechInc_NERT_10172017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6010B | Matrix: | | AQ | | | | | | |

Sample ID: CTMW-05D-20171004 Collected: AM 10/4/2017 7:40:00 Analysis Type: RES/TOT Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|--------|---------|--------|---------|-------|------------------|-------------|
| CHROMIUM | 16 | | 0.0025 | MDL | 0.0050 | MRL | mg/L | J- | m |
| IRON | 0.78 | F1 | 0.050 | MDL | 0.10 | MRL | mg/L | J+ | m |

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | Matrix: | | AQ | | | | | | |

Sample ID: CTMW-05D-20171004 Collected: AM 10/4/2017 7:40:00 Analysis Type: RES/DIS Dilution: 5

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|-----|---------|-------|------------------|-------------|
| ANTIMON | 3.6 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| CHROMIUM | 13000 | | 2.5 | MDL | 10 | MRL | ug/L | J+ | m |
| COPPER | 16 | F1 | 2.5 | MDL | 10 | MRL | ug/L | J- | m |
| SELENIUM | 5.2 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp |
| INC | 25 | J F2 F1 | 13 | MDL | 100 | MRL | ug/L | J- | sp, m, ld |

| | | | | | | | | | | |
|-------------------------|---------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | VOA | | | | | | | | | |
| Method: | RSK-175 | Matrix: | | AQ | | | | | | |

Sample ID: CTMW-05D-20171004 Collected: AM 10/4/2017 7:40:00 Analysis Type: RES Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------------|------------|----------|---------|---------|---------|---------|-------|------------------|-------------|
| Methane (FID) | 0.00044 | J | 0.00025 | MDL | 0.00099 | MRL | mg/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193514-2

Laboratory: TA IRV

EDD Filename: 440-193514-2

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| f | Matrix Spike Precision |
| ld | Matrix Spike Precision |
| ldf | Matrix Spike Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| m | Matrix Spike Upper Estimation |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193552-1

Laboratory: TA IRV

EDD Filename: 440-193552-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | Matrix: | | AQ | | | | | | |

| Sample ID: UFMW-05D-20171004 | | Collected: 10/4/2017 1:20:00 PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | | |
|-------------------------------------|------------|--|-----|---------|-------------------------------|---------|-------|--------------------|-------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| SELENIUM | 4.2 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |

| Sample ID: UFMW-05I-20171004 | | Collected: 10/4/2017 2:20:00 PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | | |
|-------------------------------------|------------|--|-----|---------|-------------------------------|---------|-------|--------------------|-------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| SELENIUM | 2.9 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |

| Sample ID: UFMW-06D-20171004 | | Collected: 10/4/2017 1:30:00 PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | | |
|-------------------------------------|------------|--|-----|---------|-------------------------------|---------|-------|--------------------|-------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| SELENIUM | 4.4 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |

| Sample ID: UFMW-06I-20171004 | | Collected: 10/4/2017 2:35:00 PM | | | Analysis Type: RES/DIS | | | Dilution: 5 | | |
|-------------------------------------|------------|--|-----|---------|-------------------------------|---------|-------|--------------------|-------------|--|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code | |
| CHROMIUM | 9.3 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |
| SELENIUM | 3.5 | J | 2.5 | MDL | 10 | MRL | ug/L | J | sp | |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193552-1

Laboratory: TA IRV

EDD Filename: 440-193552-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

10/20/2017 10:14:21 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193674-1

Laboratory: TA IRV

EDD Filename: 440-193674-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: UFMW-01D-20171005
 Collected: 10/5/2017 2:50:00 PM
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| THALLIUM | 0.59 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| INC | 5.7 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |
| NIC EL | 0.75 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193674-1

Laboratory: TA IRV

EDD Filename: 440-193674-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

10/20/2017 10:15:50 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193677-1

Laboratory: TA IRV

EDD Filename: 440-193677-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|---------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 300.1B | Matrix: AQ |

Sample ID: UFMW-06S-20171005 Collected: 10/5/2017 7:55:00 AM Analysis Type: RE2 Dilution: 50

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------|------------|----------|-----|---------|------|---------|-------|------------------|-------------|
| Chlorate | 12000 | | 500 | MDL | 1000 | MRL | ug/L | J- | m |

| | | |
|-------------------------|-----------|-------------------|
| Method Category: | GENCHEM | |
| Method: | 314.0_ppm | Matrix: AQ |

Sample ID: UFMW-04D-20171005 Collected: 10/5/2017 7:45:00 AM Analysis Type: RES Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 220 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m, m |

Sample ID: UFMW-04D-20171005-FD Collected: 10/5/2017 7:45:00 AM Analysis Type: RES Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 210 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m, m |

Sample ID: UFMW-04I-20171005 Collected: 10/5/2017 8:50:00 AM Analysis Type: RES Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| PERCHLORATE | 31 | | 0.50 | MDL | 1.0 | MRL | mg/L | J- | m, m |

Sample ID: UFMW-04S-20171005 Collected: 10/5/2017 10:00:00 AM Analysis Type: RES Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| PERCHLORATE | 21 | | 0.50 | MDL | 1.0 | MRL | mg/L | J- | m, m |

Sample ID: UFMW-05S-20171005 Collected: 10/5/2017 9:55:00 AM Analysis Type: RES Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 230 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m, m |

Sample ID: UFMW-06S-20171005 Collected: 10/5/2017 7:55:00 AM Analysis Type: RES Dilution: 1000

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|-------------|------------|----------|-----|---------|----|---------|-------|------------------|-------------|
| PERCHLORATE | 360 | | 5.0 | MDL | 10 | MRL | mg/L | J- | m, m |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193677-1

Laboratory: TA IRV

EDD Filename: 440-193677-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|-------------|-------------------|
| Method Category: | GENCHEM | |
| Method: | SM4500_S2_D | Matrix: AQ |

| Sample ID: UFMW-04D-20171005 | | Collected: AM | | Analysis Type: RES | | Dilution: 1 | | | |
|-------------------------------------|------------|----------------------|-------|---------------------------|-------|--------------------|-------|------------------|-------------|
| 10/5/2017 7:45:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| Sample ID: UFMW-04D-20171005-FD | | Collected: AM | | Analysis Type: RES | | Dilution: 1 | | | |
|--|------------|----------------------|-------|---------------------------|-------|--------------------|-------|------------------|-------------|
| 10/5/2017 7:45:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| Sample ID: UFMW-04I-20171005 | | Collected: AM | | Analysis Type: RES | | Dilution: 1 | | | |
|-------------------------------------|------------|----------------------|-------|---------------------------|-------|--------------------|-------|------------------|-------------|
| 10/5/2017 8:50:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| Sample ID: UFMW-04S-20171005 | | Collected: AM | | Analysis Type: RES | | Dilution: 1 | | | |
|-------------------------------------|------------|----------------------|-------|---------------------------|-------|--------------------|-------|------------------|-------------|
| 10/5/2017 10:00:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| Sample ID: UFMW-05S-20171005 | | Collected: AM | | Analysis Type: RES | | Dilution: 1 | | | |
|-------------------------------------|------------|----------------------|-------|---------------------------|-------|--------------------|-------|------------------|-------------|
| 10/5/2017 9:55:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| Sample ID: UFMW-06S-20171005 | | Collected: AM | | Analysis Type: RES | | Dilution: 1 | | | |
|-------------------------------------|------------|----------------------|-------|---------------------------|-------|--------------------|-------|------------------|-------------|
| 10/5/2017 7:55:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| Total Sulfide | 0.027 | U F1 | 0.027 | MDL | 0.050 | MRL | mg/L | UJ | m |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: UFMW-04D-20171005 | | Collected: AM | | Analysis Type: RES/DIS | | Dilution: 1 | | | |
|-------------------------------------|------------|----------------------|------|-------------------------------|-----|--------------------|-------|------------------|-------------|
| 10/5/2017 7:45:00 | | | | | | | | | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 1.7 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| NIC EL | 1.5 | J B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193677-1

Laboratory: TA IRV

EDD Filename: 440-193677-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

| Sample ID: UFMW-04D-20171005 | Collected: 10/5/2017 7:45:00 AM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| INC | 30 | | 2.5 | MDL | 20 | MRL | ug/L | J | fd |

| Sample ID: UFMW-04D-20171005-FD | Collected: 10/5/2017 7:45:00 AM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|--|--|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 1.5 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| NIC EL | 1.3 | J B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |
| INC | 3.5 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp, fd |

| Sample ID: UFMW-04I-20171005 | Collected: 10/5/2017 8:50:00 AM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 5.7 | J B | 5.0 | MDL | 10 | MRL | ug/L | J+ | bl |
| COPPER | 1.7 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| NIC EL | 2.0 | B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |
| SELENIUM | 1.8 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 6.0 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| Sample ID: UFMW-04S-20171005 | Collected: 10/5/2017 10:00:00 AM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|---|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 7.1 | J B | 5.0 | MDL | 10 | MRL | ug/L | J+ | bl |
| ANTIMON | 1.0 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| CHROMIUM | 2.1 | B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |
| NIC EL | 2.7 | B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |
| INC | 3.7 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| Sample ID: UFMW-05S-20171005 | Collected: 10/5/2017 9:55:00 AM | Analysis Type: RES/DIS | Dilution: 1 | | | | | | |
|-------------------------------------|--|-------------------------------|--------------------|---------|-----|---------|-------|------------------|-------------|
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 5.6 | J B | 5.0 | MDL | 10 | MRL | ug/L | J+ | bl |
| CHROMIUM | 1.3 | J B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |
| IRON | 15 | J | 8.0 | MDL | 20 | MRL | ug/L | J | sp |
| INC | 7.6 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193677-1

Laboratory: TA IRV

EDD Filename: 440-193677-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 6020 | Matrix: AQ |

Sample ID: UFMW-06S-20171005
 Collected: AM
 10/5/2017 7:55:00
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| COBALT | 0.63 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 1.3 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| NIC EL | 2.3 | B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |

| | | |
|-------------------------|--------|-------------------|
| Method Category: | METALS | |
| Method: | 7199 | Matrix: AQ |

Sample ID: UFMW-05S-20171005
 Collected: AM
 10/5/2017 9:55:00
 Analysis Type: RES/TOT
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 1.1 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193677-1

Laboratory: TA IRV

EDD Filename: 440-193677-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-------------------------------|
| bl | Method Blank Contamination |
| fd | Field Duplicate Precision |
| m | Matrix Spike Lower Estimation |
| m | Matrix Spike Lower Rejection |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

10/20/2017 10:19:57 AM

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Data Qualifier Summary

Lab Reporting Batch ID: 440-193776-1

Laboratory: TA IRV

EDD Filename: 440-193776-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | | | | | | | | | |
|-------------------------|--------|--|--|-------------------|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | | | Matrix: AQ | | | | | | |

| 10/6/2017 7:45:00 | | | | | | | | | |
|-----------------------------|--------------|----------|------|-----------------------|-----|---------|-------|------------------|-------------|
| Sample ID:UFMW-01I-20171006 | Collected:AM | | | Analysis Type:RES/DIS | | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 5.9 | J B | 5.0 | MDL | 10 | MRL | ug/L | J+ | bl |
| COPPER | 1.4 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| NIC EL | 1.8 | J B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |
| SELENIUM | 1.8 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 3.7 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |
| CHROMIUM | 0.99 | J B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |

| 10/6/2017 8:45:00 | | | | | | | | | |
|-----------------------------|--------------|----------|------|-----------------------|-----|---------|-------|------------------|-------------|
| Sample ID:UFMW-02D-20171006 | Collected:AM | | | Analysis Type:RES/DIS | | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| COPPER | 1.4 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| NIC EL | 1.9 | J B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |
| THALLIUM | 0.80 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| INC | 2.7 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| 10/6/2017 9:50:00 | | | | | | | | | |
|-----------------------------|--------------|----------|------|-----------------------|-----|---------|-------|------------------|-------------|
| Sample ID:UFMW-02I-20171006 | Collected:AM | | | Analysis Type:RES/DIS | | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 5.7 | J B | 5.0 | MDL | 10 | MRL | ug/L | J+ | bl |
| COPPER | 1.7 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| NIC EL | 2.0 | B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |
| SELENIUM | 1.8 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 6.0 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| 10/6/2017 7:50:00 | | | | | | | | | |
|-----------------------------|--------------|----------|------|-----------------------|-----|---------|-------|------------------|-------------|
| Sample ID:UFMW-03D-20171006 | Collected:AM | | | Analysis Type:RES/DIS | | | | Dilution: 1 | |
| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
| ALUMINUM | 5.0 | J B | 5.0 | MDL | 10 | MRL | ug/L | J+ | bl |
| COPPER | 1.5 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| NIC EL | 1.5 | J B | 0.50 | MDL | 2.0 | MRL | ug/L | J+ | bl |
| INC | 15 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193776-1

Laboratory: TA IRV

EDD Filename: 440-193776-1

eQAPP Name: TetraTechInc_NERT_10172017

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 6020 | Matrix: | | AQ | | | | | | |

Sample ID: UFMW-03I-20171006
 Collected: AM
 10/6/2017 8:55:00
 Analysis Type: RES/DIS
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| COBALT | 0.51 | J | 0.50 | MDL | 1.0 | MRL | ug/L | J | sp |
| COPPER | 1.4 | J | 0.50 | MDL | 2.0 | MRL | ug/L | J | sp |
| INC | 2.5 | J | 2.5 | MDL | 20 | MRL | ug/L | J | sp |

| | | | | | | | | | | |
|-------------------------|--------|----------------|--|----|--|--|--|--|--|--|
| Method Category: | METALS | | | | | | | | | |
| Method: | 7199 | Matrix: | | AQ | | | | | | |

Sample ID: UFMW-01I-20171006
 Collected: AM
 10/6/2017 7:45:00
 Analysis Type: RES/TOT
 Dilution: 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|----------------------|------------|----------|------|---------|-----|---------|-------|------------------|-------------|
| Chromium, hexavalent | 0.80 | J | 0.25 | MDL | 2.0 | MRL | ug/L | J | sp |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

Data Qualifier Summary

Lab Reporting Batch ID: 440-193776-1

Laboratory: TA IRV

EDD Filename: 440-193776-1

eQAPP Name: TetraTechInc_NERT_10172017

Reason Code Legend

| <i>Reason Code</i> | <i>Description</i> |
|--------------------|-----------------------------|
| bl | Method Blank Contamination |
| sp | Reporting Limit Trace Value |

* denotes a non-reportable result

Project Name and Number: 117-7502018-M12 - NERT In Situ Cr Treatability Study

10/20/2017 10:21:51 AM

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Appendix H.2

Validation Checklists

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-154850-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 1 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified “J”, estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|---------------------|---------------|----------------|--------------------|
| UFMW-03D-20160808 | 440-154850-1 | 08/08/16 | 4.0°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.0°C. | |

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| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

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| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

| | |
|---|-------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 09/2/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-154930-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 2 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|-----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | X | | Yes | Positive results less than the equipment blank estimated, "J+". |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | X | | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J or J+", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFMW-03I-20160808 | 440-154930-1 | 08/08/16 | 4.0°C |
| UFMW-03I-20160808-EB | 440-154930-2 | 08/08/16 | 4.0°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.0°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|---|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Perchlorate was present at a concentration of 39 ug/L in the equipment blank. Positive sample results greater than the RL, but less than the adjusted equipment blank value were qualified as estimated “J+”. | |

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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

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| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Recoveries of the perchlorate MS/MSD analyses performed on a project sample from another data set were below laboratory limits. The parent sample concentration was >4x the amount spiked in the sample. Qualification of the sample data is not required. | |

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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/9/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-154960-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 4 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | X | | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | X | No | None |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified.</p> <p>Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFMW-01D-20160809 | 440-154960-1 | 08/09/16 | 5.2°C |
| UFMW-01I-20160809 | 440-154960-2 | 08/09/16 | 5.2°C |
| UFMW-01I-20160809-FD | 440-154960-3 | 08/09/16 | 5.2°C |
| UFMW-01I-20160809-EB | 440-154960-4 | 08/09/16 | 5.2°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 5.2°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
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| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

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| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Perchlorate was present at a concentration of 5.9 ug/L in the equipment blank. The sample data did not require qualification. | |

| | |
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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | Yes/Yes |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 09/5/16

Data Verification and Validation Summary

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| Project Name: <u>NERT 2016 TASK M13* (*included in M12 DVSR)</u> | Report No.: <u>440-155089-1</u> |
| Project No.: <u>194-87600008</u> | Lab ID: <u>Test America - Irvine</u> |
| No. of Samples: <u>1</u> | Matrix: <u>Aqueous</u> |

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|-----|---------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|---------------------|---------------|----------------|---|
| UFMW-01S-20160809 | 440-155089-1 | 08/09/16 | 2.0°, 3.0°, 3.2°, 3.3°, 4.1°, 4.4°, 4.9°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperatures at receipt were 2.0°, 3.0°, 3.2°, 3.3°, 4.1°, 4.4°, 4.9°C. | |

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| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

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| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 09/5/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-155247-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 2 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | X | | Yes | Positive results less than the adjusted equipment blank value are estimated (J+). |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | X | | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified “J or J+”, estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFMW-02I-20160810 | 440-155247-1 | 08/10/16 | 4.2°C |
| UFMW-02I-20160810-EB | 440-155247-2 | 08/10/16 | 4.2°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.2°C. | |

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|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Perchlorate was present at a concentration of 65 ug/L in the equipment blank. Positive sample results greater than the RL, but less than the equipment blank value were qualified as estimated “J+”. | |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Recoveries of the perchlorate MS/MSD analyses performed on a project sample from another data set were below laboratory limits. Qualification of the sample data is not required. | |

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|--|-------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/9/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-155249-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 1 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|---------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | X | | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|---------------------|---------------|----------------|--------------------|
| UFMW-02D-20160810 | 440-155249-1 | 08/10/16 | 4.2°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.2°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Recoveries of the perchlorate MS/MSD analyses performed on UFMW-02D-20160810 were below the laboratory limit. The parent sample concentration was >4x the amount spiked in the sample. Qualification of the data is not required. | |

| | |
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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/8/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-155363-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 1 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----------------------------|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|---------------------|---------------|----------------|--------------------|
| UFMW-02S-20160810 | 440-155363-1 | 08/10/16 | 3.8°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 3.8°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/13/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-155628-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 3 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | X | No | None |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified “J”, estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFIW-05D-20160815 | 440-155628-1 | 08/15/16 | 5.8°C |
| UFIW-05I-20160815 | 440-155628-2 | 08/15/16 | 5.8°C |
| UFIW-05I-20160815-FD | 440-155628-3 | 08/15/16 | 5.8°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 5.8°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

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| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

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| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | Yes/Yes |

| | |
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| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/8/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-155688-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 3 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | X | | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | X | | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | X | | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J or J+", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFIW-06D-20160815 | 440-155688-1 | 08/15/16 | 2.7°C |
| UFIW-05D-20160815-FB | 440-155688-2 | 08/15/16 | 2.7°C |
| UFIW-06D-20160815-EB | 440-155688-3 | 08/15/16 | 2.7°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or - 2°C)? Were samples received in proper condition? | Yes/Yes/No |
| Note: Cooler temperature at receipt was 2.7°C. Sample UFIW-05D-20160815-FB was received unpreserved. Laboratory personnel acidified the sample upon receipt. | |

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|---|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| The project manager contacted the lab and instructed them to revise the identifications of samples -1 and -3, as well as change the time of collection for sample -1 to 1515. | |

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| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

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| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Perchlorate was present at concentrations of 3.5 and 5.5 ug/L in the field and equipment blanks, respectively. Qualification of the sample data is not required. | |

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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

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| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Recoveries of the perchlorate MS/MSD analyses performed on UFIW-06D-20160815 were below laboratory limits. The parent sample concentration was >4x the amount spiked in the sample. Qualification of the sample data is not required. | |

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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

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| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/9/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-155759-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 1 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|-----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|---------------------|---------------|----------------|--------------------|
| UFIW-06I-20160816 | 440-155759-1 | 08/16/16 | 4.1°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.1°C. | |

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| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

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| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

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| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

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| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

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| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/13/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR)

Report No.: 440-155761-1

Project No.: 194-87600008

Lab ID: Test America - Irvine

No. of Samples: 1

Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|-----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | X | | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|---------------------|---------------|----------------|--------------------|
| UFIW-06S-20160816 | 440-155761-1 | 08/16/16 | 4.1°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|--|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.1°C. Sample UFIW-06S-20160816 was not acid preserved in the field. The laboratory preserved the sample when it was received and waited 24 hours before proceeding with the digestion. | |

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| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
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| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

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| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

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|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/12/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-155766-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 3 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----------------------------|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | X | | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFIW-07D-20160816 | 440-155766-1 | 08/16/16 | 2.7°C |
| UFIW-06I-20160816-FB | 440-155766-2 | 08/16/16 | 2.7°C |
| UFIW-07D-20160816-EB | 440-155766-3 | 08/16/16 | 2.7°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 2.7°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Perchlorate was present at concentrations of 2.0 ug/L in the field blank and 2.4 ug/L in the equipment blank. The sample data did not require qualification. | |

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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
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| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/13/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-155923-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 3 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|---------------------|---------------|----------------|--------------------|
| UFIW-07I-20160817 | 440-155923-1 | 08/17/16 | 4.5°C |
| UFIW-07S-20160817 | 440-155923-2 | 08/17/16 | 4.5°C |
| UFIW-08D-20160817 | 440-155923-3 | 08/17/16 | 4.5°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.5°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

| | |
|---|-------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/12/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-155966-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 3 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | X | | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | X | | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | X | | Yes | All: Qualify detections between the MDL and RL "J". |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J or J+", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFIW-08I-20160817 | 440-155966-1 | 08/17/16 | 1.3°C |
| UFIW-07I-20160817-FB | 440-155966-2 | 08/17/16 | 1.3°C |
| UFIW-08I-20160817-EB | 440-155966-3 | 08/17/16 | 1.3°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 1.3°C. | |

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|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
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| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

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|---|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Perchlorate was present at concentrations of 6.0 and 0.83 ug/L in the field and equipment blanks, respectively. Qualification of the sample data is not required. | |

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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

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| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Recoveries of the perchlorate MS/MSD analyses performed on a project sample from another data set were below laboratory limits. Qualification of the sample data is not required. The lab inadvertently performed the chromium MS/MSD on the equipment blank and hexavalent chromium spikes on the field blank. | |

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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |
| All results detected above the MDL but below the RL are estimated and qualified “J”. | |

Validated by: Cecelia Minch 9/12/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-156054-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 3 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | X | | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | X | No | None |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified.</p> <p>Usability: Sample results qualified “J”, estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFMW-04D-20160818 | 440-156054-1 | 08/18/16 | 3.1°C |
| UFMW-04I-20160818 | 440-156054-2 | 08/18/16 | 3.1°C |
| UFMW-04I-20160818-FD | 440-156054-3 | 08/18/16 | 3.1°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 3.1°C. | |

| | |
|---|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| The time of collection was omitted from the COC for sample UFMW-04D-20160818. The laboratory used the time as documented on the sample container. | |

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| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
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| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Perchlorate was present at a concentration of 5.0 ug/L in the equipment blank reported in 440-156076-1. The sample data did not require qualification. | |

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|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

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| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | Yes/Yes |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/13/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-156076-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 2 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | X | | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified.</p> <p>Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFMW-04D-20160818-FB | 440-156076-1 | 08/18/16 | 1.1°, 2.2°, 3.9°C |
| UFMW-04I-20160818-EB | 440-156076-1 | 08/18/16 | 1.1°, 2.2°, 3.9°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

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|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperatures at receipt were 1.1°, 2.2°, 3.9°C. | |

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|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

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|--|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Perchlorate was present at a concentration of 5.0 ug/L in the equipment blank. The sample data did not require qualification. | |

| | |
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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

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|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

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|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/13/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-156173-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 1 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | X | | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|---------------------|---------------|----------------|--------------------|
| UFMW-06S-20160819 | 440-156173-1 | 08/19/16 | 3.6°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 3.6°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
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| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Recovery of the perchlorate matrix spike analysis performed on UFMW-06S-20160819 was above the laboratory limit and the spike duplicate recovery was below the laboratory limit. The parent sample concentration was >4x the amount spiked in the sample. Qualification of the data is not required. | |

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| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/26/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-156174-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 6 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | X | | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | X | | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | X | | Yes | Chromium qualified J+ in sample UFMW-05S-20160819. |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | X | | Yes | All: Qualify detections between the MDL and RL "J". |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J or J+", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFIW-05S-20160819 | 440-156174-1 | 08/19/16 | 3.6°C |
| UFIW-08S-20160819 | 440-156174-2 | 08/19/16 | 3.6°C |
| UFMW-04S-20160819 | 440-156174-3 | 08/19/16 | 3.6°C |
| UFMW-05S-20160819 | 440-156174-4 | 08/19/16 | 3.6°C |
| UFIW-05S-20160819-FB | 440-156174-5 | 08/19/16 | 3.6°C |
| UFMW-06S-20160819-EB | 440-156174-6 | 08/19/16 | 3.6°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 3.6°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| The COC indicated that sample UFMW-05S-20160819 should be filtered for the perchlorate analysis. The laboratory did not filter the sample as requested and reported total perchlorate. | |

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| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

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|---|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Perchlorate was present at concentrations of 0.89 and 9.5 ug/L in the field and equipment blanks, respectively. Qualification of the sample data is not required. | |

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|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Chromium was estimated (J+) in UFMW-05S-20160819 due to high recovery in the matrix spike duplicate. Recoveries of the perchlorate spike analyses performed on a project sample from another data set were above the laboratory limit. Qualification of the data is not required. | |

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|--|-------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |
| All results detected above the MDL but below the RL are estimated and qualified “J”. | |

Validated by: Cecelia Minch 11/22/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR)

Report No.: 440-156251-1

Project No.: 194-87600008

Lab ID: Test America - Irvine

No. of Samples: 2

Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|-----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|---------------------|---------------|----------------|--------------------|
| UFMW-06I-20160822 | 440-156251-1 | 08/22/16 | 3.6°C |
| UFMW-06D-20160822 | 440-156251-2 | 08/22/16 | 3.6°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| 1. Sample Preservation, Handling, and Transport | |
|---|-------------|
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 3.6°C. | |

| 2. Chain-of-Custody (COC) | |
|--|---------|
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| 3. Holding Times | |
|--|-----|
| Were samples analyzed within acceptable holding times? | Yes |

| 4. Blanks | |
|--|------------|
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| 5. Laboratory Control Samples (LCS) | |
|--|-------------|
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
|--|-------------|
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

| 7. Field Duplicate | |
|---|-------|
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
|---|---------|
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/26/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-156258-1
 Project No.: 194-87600008 Lab ID: Test America – Irvine
 No. of Samples: 2 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|-----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | X | | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified “J”, estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFMW-05D-20160810 | 440-156258-1 | 08/22/16 | 1.0°C |
| UFMW-05D-20160810-EB | 440-156258-2 | 08/22/16 | 1.0°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 1.0°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
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| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Recoveries of the perchlorate MS/MSD analyses performed on a project sample in another data set were above the laboratory limit. Qualification of the data is not required. | |

| | |
|--|-------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/26/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-156318-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 3 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|-----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | X | | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | X | | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|---------------------|---------------|----------------|--------------------|
| UFMW-05I-20160823 | 440-156318-1 | 08/23/16 | 4.1°C |
| E2-1-20160823 | 440-156318-2 | 08/23/16 | 4.1°C |
| E2-2-20160823 | 440-156318-3 | 08/23/16 | 4.1°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|--|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.1°C. Samples E2-1-20160823 and E2-2-20160823 were preserved upon receipt at the laboratory. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Recoveries of the perchlorate spike analyses performed on E2-1-20160823 were above the laboratory limit. The parent sample concentration was >4x the amount spiked in the sample. Qualification of the data is not required. | |

| | |
|--|-------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/26/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-156745-1
 Project No.: 194-87600008 Lab ID: Test America – Irvine
 No. of Samples: 2 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|-----|------------------------|-----------------------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | X | | Yes | All results estimated (UJ). |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (volatile fatty acids- 10 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | X | | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|---------------------|---------------|----------------|--------------------|
| UFIW-06I -20160826 | 440-156745-1 | 08/26/16 | 1.6°C |
| UFIW-06S-20160826 | 440-156745-2 | 08/26/16 | 1.6°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|--|------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/No |
| Note: Cooler temperature at receipt was 1.6°C. The laboratory noted that the results are considered as estimated because the incorrect containers were used for the samples. All data were, therefore, qualified as estimated (UJ). | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Recoveries of propionic acid and/or pyruvic acid were above the laboratory limits in the spike analyses performed on an unrelated sample in another data set. Qualification of the data is not required. | |

| | |
|--|-------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/26/16

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 24

SDG/Report No.: 440-164756-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent samples E1-1-20161104, E1-3-20161104, UFIW-05S-20161104, UFIW-06D-20161104, UFIW-06I-20161104, UFIW-06S-20161104, UFIW-07D-20161104, UFIW-07I-20161104, UFIW-07S-20161104, UFIW-08D-20161104, UFIW-08I-20161104 and UFMW-04I-20161104 were qualified with a "J-" or "UJ". |
| 4. Blanks | X | | Yes | Parent sample UFIW-06I-20161104 was qualified with a "J+". |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples UFIW-07I-20161104, E1-3-20161104 and UFMW-06S-20161104 were qualified with a "J-" or "J+". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample UFIW-08I-20161104 was qualified with a "J" or "UJ". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 3.1°, 4.3°, 4.6°, 4.7° and 5.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| E1-1-20161104 | 440-164756-1 | 11/04/2016 |
| E1-2-20161104 | 440-164756-2 | 11/04/2016 |
| E1-2-20161104-FD | 440-164756-3 | 11/04/2016 |
| E1-3-20161104 | 440-164756-4 | 11/04/2016 |
| UFMW-06S-20161104 | 440-164756-5 | 11/04/2016 |
| UFMW-06D-20161104 | 440-164756-6 | 11/04/2016 |
| UFMW-06I-20161104 | 440-164756-7 | 11/04/2016 |
| UFMW-04S-20161104 | 440-164756-8 | 11/04/2016 |

Data Verification and Validation Summary
Data Validation Stage 2A

| | | |
|----------------------|---------------|------------|
| UFMW-04I-20161104 | 440-164756-9 | 11/04/2016 |
| UFMW-04D-20161104 | 440-164756-10 | 11/04/2016 |
| UFMW-05S-20161104 | 440-164756-11 | 11/04/2016 |
| UFMW-05I-20161104 | 440-164756-12 | 11/04/2016 |
| UFIW-08I-20161104 | 440-164756-15 | 11/04/2016 |
| UFIW-08I-20161104-FD | 440-164756-16 | 11/04/2016 |
| UFIW-08D-20161104 | 440-164756-17 | 11/04/2016 |
| UFIW-07S-20161104 | 440-164756-18 | 11/04/2016 |
| UFIW-07I-20161104 | 440-164756-19 | 11/04/2016 |
| UFIW-07D-20161104 | 440-164756-20 | 11/04/2016 |
| UFIW-06S-20161104 | 440-164756-21 | 11/04/2016 |
| UFIW-06I-20161104 | 440-164756-22 | 11/04/2016 |
| UFIW-06D-20161104 | 440-164756-23 | 11/04/2016 |
| UFIW-05S-20161104 | 440-164756-24 | 11/04/2016 |
| UFIW-05I-20161104 | 440-164756-25 | 11/04/2016 |
| UFIW-05D-20161104 | 440-164756-26 | 11/04/2016 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|---|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 7199: The Hexavalent Chromium result from parent samples E1-1-20161104, E1-3-20161104, UFIW-05S-20161104, UFIW-06D-20161104, UFIW-06I-20161104, UFIW-06S-20161104, UFIW-07D-20161104, UFIW-07I-20161104, UFIW-07S-20161104, UFIW-08D-20161104, UFIW-08I-20161104 and UFMW-04I-20161104 were qualified as estimated and assigned a “J-“ or “UJ” qualifier. | |

| | |
|--|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Method 6010B: The Iron result from parent sample UFIW-06I-20161104 was qualified as estimated and assigned a “J+“ qualifier. | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.0: The Sulfate result from parent sample UFIW-07I-20161104 was qualified as estimated and assigned a “J-“qualifier. | |
| Method 314.0: The Perchlorate result from parent sample E1-3-20161104 was qualified as estimated and assigned a “J-“ qualifier. | |
| Method 6010B: The Calcium result from parent sample UFMW-06S-20161104 was qualified as estimated and assigned a “J+“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
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| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

| 9. Compound Quantitation and Reporting Limits | |
|--|-------------|
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

| 10. Duplicates | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 314.0: The Perchlorate result from parent sample UFIW-08I-20161104 was qualified as estimated and assigned a "J" qualifier. | |
| Method SM4500_S2_D: The Total Sulfide and Dissolved Sulfide results from parent sample UFIW-08I-20161104 were qualified as estimated and assigned a "J" qualifier. | |
| Method 6010B: The Calcium and Chromium results from parent sample UFIW-08I-20161104 were qualified as estimated and assigned a "J" or "UJ" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 2

SDG/Report No.: 440-164756-2
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent sample UFIW-08-20161104 was qualified with a "UJ". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 3.1°, 4.3°, 4.6°, 4.7° and 5.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-05D-20161104 | 440-164756-13 | 11/04/2016 |
| UFIW-08-20161104 | 440-164756-14 | 11/04/2016 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 7199: The Hexavalent Chromium result from parent sample UFIW-08-20161104 was qualified as estimated and assigned a “UJ” qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-167766-3
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent sample IDW-CT-20161201-Comp was qualified with a "J-". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | Yes | Parent sample IDW-CT-20161201-Comp was qualified with a "J-". |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperature: 4.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------------|---------------|----------------|
| IDW-CT-20161201-Composite | 440-167766-10 | 12/01/2016 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 7199: The Hexavalent Chromium result from parent sample IDW-CT-20161201-Comp was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B Leach: The Chlorate result from parent sample IDW-CT-20161201-Comp was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 14

SDG/Report No.: 440-174831-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample E2-1-20170126 was qualified with a "J+". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 5.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-01S-20170126 | 440-174831-1 | 01/26/2017 |
| UFMW-02S-20170126 | 440-174831-2 | 01/26/2017 |
| UFIW-01S-20170126 | 440-174831-3 | 01/26/2017 |
| UFIW-02S-20170126 | 440-174831-4 | 01/26/2017 |
| UFIW-03S-20170126 | 440-174831-5 | 01/26/2017 |
| UFIW-04S-20170126 | 440-174831-6 | 01/26/2017 |
| E2-5-20170126 | 440-174831-7 | 01/26/2017 |
| E2-5-20170126-DUP | 440-174831-8 | 01/26/2017 |
| E2-4-20170126 | 440-174831-9 | 01/26/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

| | | |
|------------------|---------------|------------|
| E2-3-20170126 | 440-174831-10 | 01/26/2017 |
| 20170126-EB-VC | 440-174831-11 | 01/26/2017 |
| 20170126-FB | 440-174831-12 | 01/26/2017 |
| E2-1-20170126 | 440-174831-13 | 01/26/2017 |
| E2-2-20170126-EB | 440-174831-14 | 01/26/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 314.0: The Perchlorate result from parent sample E2-1-20170126 was qualified as estimated and assigned a “J+” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 8

SDG/Report No.: 440-174981-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 2.4°

| Field Sample Number | Lab Sample ID | Date Collected |
|-----------------------|---------------|----------------|
| UFIW-05S-20170127 | 440-174981-1 | 01/27/2017 |
| UFIW-06S-20170127 | 440-174981-2 | 01/27/2017 |
| UFIW-07S-20170127 | 440-174981-3 | 01/27/2017 |
| UFIW-08S-20170127 | 440-174981-4 | 01/27/2017 |
| UFMW-04S-20170127 | 440-174981-5 | 01/27/2017 |
| UFMW-04S-20170127-DUP | 440-174981-6 | 01/27/2017 |
| UFMW-06S-20170127 | 440-174981-7 | 01/27/2017 |
| 20170127-FB | 440-174981-8 | 01/27/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

| | |
|---|---------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

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Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 1

SDG/Report No.: 440-174984-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:
Cooler Temperature: 2.7°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-05S-20170127 | 440-174984-1 | 01/27/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 6

SDG/Report No.: 440-180057-1
 Lab ID: Test America Irvine
 Matrix: Solid and Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-02D-0.5-20170320: CrVI was qualified "J-". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |
| Revisions to ADR results: MS. See below. | | | | |

Sample Information:

Cooler Temperature: 5.0°

| Field Sample Number | Lab Sample ID | Date Collected |
|--------------------------|---------------|----------------|
| CTMW-01D-0.5-20170320 | 440-180057-1 | 03/20/2017 |
| CTIW-02D-0.5-20170320 | 440-180057-2 | 03/20/2017 |
| CTMW-02D-0.5-20170320 | 440-180057-3 | 03/20/2017 |
| CTIW-03D-0.5-20170320 | 440-180057-4 | 03/20/2017 |
| CTIW-03D-0.5-20170320-EB | 440-180057-5 | 03/20/2017 |
| CTMW-04D-0.5-20170320 | 440-180057-6 | 03/20/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 314.0: Perchlorate recoveries in the MS/MSD of CTMW-01D-0.5-20170320 were outside limits. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method 7199: The Hexavalent Chromium result from parent sample CTMW-02D-0.5-20170320 was qualified as estimated and assigned a “J-” qualifier for MSI recovery. | |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 14

SDG/Report No.: 440-180166-1
 Lab ID: Test America Irvine
 Matrix: Solid and Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|---|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Electronic_and_Manual | | | |
| Verification and Validation Label Code | S2AVEM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |
| Revisions to ADR results: MS and surrogate. See below. | | | | |

Sample Information:
Cooler Temperature: 4.4°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------------|---------------|----------------|
| CTMW-01D-5.0-20170321 | 440-180166-1 | 03/21/2017 |
| CTMW-01D-10.0-20170321 | 440-180166-2 | 03/21/2017 |
| CTMW-01D-15.0-20170321 | 440-180166-3 | 03/21/2017 |
| CTMW-01D-20.0-20170321 | 440-180166-4 | 03/21/2017 |
| CTMW-01D-25.0-20170321 | 440-180166-5 | 03/21/2017 |
| CTMW-01D-30.0-20170321 | 440-180166-6 | 03/21/2017 |
| CTMW-01D-35.0-20170321 | 440-180166-7 | 03/21/2017 |
| CTMW-01D-40.0-20170321 | 440-180166-8 | 03/21/2017 |
| CTMW-01D-45.0-20170321 | 440-180166-9 | 03/21/2017 |
| CTMW-01D-50.0-20170321 | 440-180166-10 | 03/21/2017 |
| CTMW-01D-55.0-20170321 | 440-180166-11 | 03/21/2017 |
| CTMW-01D-55.0-20170321-FD | 440-180166-12 | 03/21/2017 |
| CTMW-01D-60.0-20170321 | 440-180166-13 | 03/21/2017 |
| CTMW-01D-60.0-20170321-EB | 440-180166-14 | 03/21/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|--|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B Leach: The surrogate recoveries were zero percent because of dilution for the following: CTMW-01D-20.0-20170321, CTMW-01D-25.0-20170321, CTMW-01D-30.0-20170321, CTMW-01D-35.0-20170321, CTMW-01D-40.0-20170321, CTMW-01D-45.0-20170321, CTMW-01D-50.0-20170321, CTMW-01D-55.0-20170321 and CTMW-01D-60.0-20170321. No qualification is needed. | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B Leach: Chlorate MS/MSD recoveries were outside limits for parent sample CTMW-01D-60.0-20170321. The concentration in the sample is >4x the amount spiked. No qualification. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |

| | |
|---|---------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates ≤ lab limits or ≤ 30% for field duplicates? | Yes/Yes |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 2

SDG/Report No.: 440-180292-1
 Lab ID: Test America Irvine
 Matrix: Solid and Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. Revisions to ADR results: Surrogate. See below.</p> | | | | |

Sample Information:

Cooler Temperatures: 1.8°, 1.9° and 2.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------------|---------------|----------------|
| CTMW-04D-55.0-20170322 | 440-180292-1 | 03/22/2017 |
| CTMW-04D-60.0-20170322-EB | 440-180292-2 | 03/22/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B_Leach: The surrogate recovery was zero percent in CTMW-04D-55.0-20170322 because of dilution. No qualification is needed. | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 11

SDG/Report No.: 440-180320-1
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | No | CTMW-04D-5.0-20170322: Chlorate qualified "J-". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |

| | |
|--|----------------------------|
| Verification and Validation Label | Stage_2A_Validation_Manual |
| Verification and Validation Label Code | S2AVM |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. Revisions to ADR results: MS, surrogate. See below.</p> | |

Sample Information:

Cooler Temperatures: 1.8°, 1.9°, 2.0° and 2.4°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------------|---------------|----------------|
| CTMW-04D-5.0-20170322 | 440-180320-1 | 03/22/2017 |
| CTMW-04D-10.0-20170322 | 440-180320-2 | 03/22/2017 |
| CTMW-04D-15.0-20170322 | 440-180320-3 | 03/22/2017 |
| CTMW-04D-20.0-20170322 | 440-180320-4 | 03/22/2017 |
| CTMW-04D-25.0-20170322 | 440-180320-5 | 03/22/2017 |
| CTMW-04D-25.0-20170322-FD | 440-180320-6 | 03/22/2017 |
| CTMW-04D-30.0-20170322 | 440-180320-7 | 03/22/2017 |
| CTMW-04D-35.0-20170322 | 440-180320-8 | 03/22/2017 |
| CTMW-04D-40.0-20170322 | 440-180320-9 | 03/22/2017 |
| CTMW-04D-45.0-20170322 | 440-180320-10 | 03/22/2017 |
| CTMW-04D-50.0-20170322 | 440-180320-11 | 03/22/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|--|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B_Leach: Surrogate recoveries were zero because of dilution in CTMW-04D-25.0-20170322, CTMW-04D-30.0-20170322, CTMW-04D-35.0-20170322, CTMW-04D-40.0-20170322, CTMW-04D-45.0-20170322 and CTMW-04D-50.0-20170322. No qualification is needed. | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B_Leach: Chlorate recoveries were outside limits in the MS/MSD of CTMW-04D-5.0-20170322. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method 314.0: The Perchlorate result from parent sample CTMW-04D-5.0-20170322 was qualified as estimated and assigned a “J-” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

| 9. Compound Quantitation and Reporting Limits | |
|--|------------|
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-180320-2
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent sample CTMW-04D-40.0-20170322 was qualified with a "J". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-04D-40.0-20170322 was qualified with a "J". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-04D-40.0-20170322 was qualified with a "J". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 1.8°, 1.9°, 2.0° and 2.4°

| Field Sample Number | Lab Sample ID | Date Collected |
|------------------------|---------------|----------------|
| CTMW-04D-40.0-20170322 | 440-180320-9 | 03/23/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 300.0: The Nitrate as NO ₃ result from parent sample CTMW-04D-40.0-20170322 was qualified as estimated and assigned a “J-” qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.0: The Nitrate as NO ₃ result from parent sample CTMW-04D-40.0-20170322 was qualified as estimated and assigned a “J-” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|--|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 300.0: The Nitrate as NO ₃ result from parent sample CTMW-04D-40.0-20170322 was qualified as estimated and assigned a “J-” qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-180327-1
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |

| | |
|--|----------------------------|
| Verification and Validation Label | Stage_2A_Validation_Manual |
| Verification and Validation Label Code | S2AVM |

Overall Assessment: Acceptable as qualified.
Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.
Revisions to ADR results: MS, surrogate. See below.

Sample Information:

Cooler Temperatures: 1.8°, 1.9° and 2.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|------------------------|---------------|----------------|
| CTMW-04D-60.0-20170322 | 440-180327-1 | 03/22/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/No/Yes |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|---|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B_Leach: Surrogate recovery was outside limits in CTMW-04D-60.0-20170322 because of dilution. No qualification. | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B_Leach: The Chlorate recoveries were outside limits in the MS/MSD of CTMW-04D-60.0-20170322. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method 314.0: The Perchlorate recoveries were outside limits in the MS/MSD of CTMW-04D-60.0-2017032. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |

| | |
|---|---------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-180434-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:
Cooler Temperature: 1.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------------|---------------|----------------|
| CTMW-02D-60.0-20170323-EB | 440-180434-1 | 03/23/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

| | |
|---|---------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

| |
|--|
| |
|--|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 12

SDG/Report No.: 440-180521-1
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | CTMW-02D-60.0-20170323: CrVI qualified "J". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | X | | Yes | Parent sample CTMW-02D-10.0-20170323 was qualified with a "J". |

| | |
|--|----------------------------|
| Verification and Validation Label | Stage_2A_Validation_Manual |
| Verification and Validation Label Code | S2AVM |

Overall Assessment: Acceptable as qualified.
Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.
Revisions to ADR results: MS, surrogate. See below.

Sample Information:
Cooler Temperature: 2.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------------|---------------|----------------|
| CTMW-02D-5.0-20170323 | 440-180521-1 | 03/23/2017 |
| CTMW-02D-10.0-20170323 | 440-180521-2 | 03/23/2017 |
| CTMW-02D-10.0-20170323-FD | 440-180521-3 | 03/23/2017 |
| CTMW-02D-15.0-20170323 | 440-180521-4 | 03/23/2017 |
| CTMW-02D-20.0-20170323 | 440-180521-5 | 03/23/2017 |
| CTMW-02D-25.0-20170323 | 440-180521-6 | 03/23/2017 |
| CTMW-02D-30.0-20170323 | 440-180521-7 | 03/23/2017 |
| CTMW-02D-40.0-20170323 | 440-180521-8 | 03/23/2017 |
| CTMW-02D-45.0-20170323 | 440-180521-9 | 03/23/2017 |
| CTMW-02D-50.0-20170323 | 440-180521-10 | 03/23/2017 |
| CTMW-02D-55.0-20170323 | 440-180521-11 | 03/23/2017 |
| CTMW-02D-60.0-20170323 | 440-180521-12 | 03/23/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 300.0: The Nitrate as NO ₃ result from parent sample CTMW-04D-40.0-20170322 was qualified as estimated and assigned a “J-” qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|--|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B Leach: The surrogate recoveries were zero percent because of dilution in the following: CTMW-02D-25.0-20170323, CTMW-02D-30.0-20170323, CTMW-02D-40.0-20170323, CTMW-02D-45.0-20170323, CTMW-02D-5.0-20170323, CTMW-02D-50.0-20170323, CTMW-02D-55.0-20170323 and CTMW-02D-60.0-20170323. No qualification. | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B Leach: Chlorate recoveries in the MS/MSD of CTMW-02D-5.0-20170323 and CTMW-02D-60.0-20170323 were outside limits. The concentrations in the parent samples were >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method 314.0: The Perchlorate recoveries in the MS/MSD of CTMW-02D-5.0-20170323 were outside limits. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method 7199: The Hexavalent Chromium result from parent sample CTMW-02D-60.0-20170323 was qualified as estimated and assigned a “J-” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |

| | |
|---|--------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 314.0: The Perchlorate result from parent sample CTMW-02D-10.0-20170323 was qualified as estimated and assigned a "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-180521-2
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent sample CTMW-02D-40.0-20170323 was qualified with a "J". |
| 4. Blanks | X | | Yes | Parent sample CTMW-02D-40.0-20170323 was qualified with a "U". |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:
Cooler Temperature: 2.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|------------------------|---------------|----------------|
| CTMW-02D-40.0-20170323 | 440-180521-8 | 03/23/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 300.0: The Nitrate as NO ₃ result from parent sample CTMW-02D-40.0-20170323 was qualified as estimated and assigned a “J-” qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| Method 6020: The Silver result from parent sample CTMW-02D-40.0-20170323 was qualified as estimated and assigned a “U” qualifier. | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-180522-1
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | Yes | Parent sample CTMW-02D-35.0-20170323 was qualified with a "J". |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperature: 2.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|------------------------|---------------|----------------|
| CTMW-02D-35.0-20170323 | 440-180522-1 | 03/23/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B_Leach: The Chlorate results from parent sample CTMW-02D-35.0-20170323 was qualified as estimated and assigned a “J-” qualifier. | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 11

SDG/Report No.: 440-180564-1
 Lab ID: Test America Irvine
 Matrix: Solid and Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Sample CTIW-02D-10.0-20170324: Chlorate was qualified with a "J". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | X | | Yes | Parent sample CTIW-02D-15.0-20170324 was qualified with a "J". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. Revisions to ADR results: MS, surrogate. See below.</p> | | | | |

Sample Information:
Cooler Temperature: 3.2°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------------|---------------|----------------|
| CTIW-02D-10.0-20170324 | 440-180564-1 | 03/24/2017 |
| CTIW-02D-15.0-20170324-FD | 440-180564-2 | 03/24/2017 |
| CTIW-02D-15.0-20170324 | 440-180564-3 | 03/24/2017 |
| CTIW-02D-20.0-20170324 | 440-180564-4 | 03/24/2017 |
| CTIW-02D-25.0-20170324 | 440-180564-5 | 03/24/2017 |
| CTIW-02D-30.0-20170324 | 440-180564-6 | 03/24/2017 |
| CTIW-02D-35.0-20170324 | 440-180564-7 | 03/24/2017 |
| CTIW-02D-40.0-20170324 | 440-180564-8 | 03/24/2017 |
| CTIW-02D-45.0-20170324 | 440-180564-9 | 03/24/2017 |
| CTIW-02D-50.0-20170324 | 440-180564-10 | 03/24/2017 |
| CTIW-02D-50.0-20170324-EB | 440-180564-11 | 03/24/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B Leach: Surrogate recoveries were zero percent because of dilution in the following: CTIW-02D-25.0-20170324, CTIW-02D-30.0-20170324, CTIW-02D-35.0-20170324, CTIW-02D-40.0-20170324, CTIW-02D-45.0-20170324 and CTIW-02D-50.0-20170324. No qualification is needed. | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B Leach: The Chlorate result from parent sample CTIW-02D-10.0-20170324 was qualified as estimated and assigned a “J-” qualifier. | |
| Method 314.0: Perchlorate MS/MSD recoveries of CTIW-02D-10.0-20170324 were outside limits. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 314.0: The Perchlorate result from parent sample CTIW-02D-15.0-20170324 was qualified as estimated and assigned a "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-180590-1
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:
Cooler Temperature: 3.2°

| Field Sample Number | Lab Sample ID | Date Collected |
|-----------------------|---------------|----------------|
| CTIW-02D-5.0-20170324 | 440-180590-1 | 03/24/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 15

SDG/Report No.: 440-180694-1
 Lab ID: Test America Irvine
 Matrix: Solid and Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent samples CTIW-02S-22.0-20170327 and CTIW-03S-22.0-20170327 were qualified with a "J". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | CTIW-02S-22.0-20170327: Antimony and barium qualified "UJ" and "J+", respectively. |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent samples CTIW-03D-10.0-20170327 and CTIW-03D-25.0-20170327 were qualified with a "J". |

| | |
|-----------------------------------|----------------------------|
| Verification and Validation Label | Stage_2A_Validation_Manual |
|-----------------------------------|----------------------------|

| | |
|--|-------|
| Verification and Validation Label Code | S2AVM |
|--|-------|

Overall Assessment: Acceptable as qualified.
Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.
Revisions to ADR results: MS, surrogate. See below.

Sample Information:

Cooler Temperatures: 3.1° and 3.4°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------------|---------------|----------------|
| CTIW-02S-22.0-20170327 | 440-180694-1 | 03/27/2017 |
| CTIW-03D-5.0-20170327 | 440-180694-2 | 03/27/2017 |
| CTIW-03D-10.0-20170327 | 440-180694-3 | 03/27/2017 |
| CTIW-03D-10.0-20170327-FD | 440-180694-4 | 03/27/2017 |
| CTIW-03D-20.0-20170327 | 440-180694-5 | 03/27/2017 |
| CTIW-03D-25.0-20170327 | 440-180694-6 | 03/27/2017 |
| CTIW-03D-25.0-20170327-FD | 440-180694-7 | 03/27/2017 |
| CTIW-03D-30.0-20170327 | 440-180694-8 | 03/27/2017 |
| CTIW-03D-35.0-20170327 | 440-180694-9 | 03/27/2017 |
| CTIW-03D-40.0-20170327 | 440-180694-10 | 03/27/2017 |
| CTIW-03D-41.5-20170327 | 440-180694-11 | 03/27/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

| | | |
|---------------------------|---------------|------------|
| CTIW-03D-45.0-20170327 | 440-180694-12 | 03/27/2017 |
| CTIW-03D-50.0-20170327 | 440-180694-13 | 03/27/2017 |
| CTIW-03S-22.0-20170327 | 440-180694-14 | 03/27/2017 |
| CTIW-03S-22.0-20170327-EB | 440-180694-15 | 03/27/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 300.0: The Nitrate as NO ₃ results from parent samples CTIW-02S-22.0-20170327 and CTIW-03S-22.0-20170327 were qualified as estimated and assigned a “J-” qualifier. | |

| | |
|--|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| | |

| | |
|---|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B Leach: The Chlorate results from parent samples CTIW-02S-22.0-20170327, CTIW-03D-25.0-20170327, CTIW-03D-30.0-20170327, CTIW-03D-35.0-20170327, CTIW-03D-40.0-20170327, CTIW-03D-41.5-20170327, CTIW-03D-41.5-20170327 and CTIW-03D-50.0-20170327 were qualified as estimated and assigned a “J-” qualifier. | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 314.0: Perchlorate recoveries in the MS/MSDs of CTIW-02S-22.0-20170327 and CTIW-03D-5.0-20170327 were outside limits. The concentrations in the parent samples were >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method 6010B Leach: The Sodium recoveries in the MS/MSD of CTIW-02S-22.0-20170327. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method 6020: The Antimony and Barium results from parent sample CTIW-02S-22.0-20170327 were qualified as estimated and assigned a “UJ” or “J+” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

| | |
|---|--------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 314.0: The Perchlorate result from parent sample CTIW-03D-10.0-20170327 was qualified as estimated and assigned a "J" qualifier. | |
| Method 6010B: The Chromium result from parent sample CTIW-03D-25.0-20170327 was qualified as estimated and assigned a "J" qualifier. | |
| Method 7199: The Hexavalent Chromium result from parent sample CTIW-03D-25.0-20170327 was qualified as estimated and assigned a "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-180695-1
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 3.1° and 3.4°

| Field Sample Number | Lab Sample ID | Date Collected |
|------------------------|---------------|----------------|
| CTIW-03D-15.0-20170327 | 440-180695-1 | 03/27/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

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| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

| | |
|---|---------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

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Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-180978-1
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent sample IDW-CT-20170329-Comp was qualified with a "J". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:
Cooler Temperature: 4.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------------|---------------|----------------|
| IDW-CT-20170329-Composite | 440-180978-6 | 03/29/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 7199: The Hexavalent Chromium result from parent sample IDW-CT-20170329-Comp was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 3

SDG/Report No.: 440-181198-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTIW-02S-20170403 was qualified with a "J" and "J-". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTIW-02S-20170403 was qualified with a "UJ". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. Revisions to ADR results: MS. See below.</p> | | | | |

Sample Information:
Cooler Temperature: 2.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTIW-02S-20170403 | 440-181198-1 | 04/03/2017 |
| CTIW-01D-20170403 | 440-181198-2 | 04/03/2017 |
| CTIW-02S-20170403-TB | 440-181198-3 | 04/03/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 365.3: Orthophosphate as P and Orthophosphorus as PO ₄ results from parent sample CTIW-02S-20170403 were qualified as estimated and assigned “J” and “J-” qualifiers, respectively. | |
| Method 6010B: Chromium recoveries in the MS/MSD of CTIW-02S-20170403 were outside limits. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method 6020: Chromium recoveries in the MS/MSD of CTIW-02S-20170403 were outside limits. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
|---|--------|

Method 6020: The Iron and Vanadium results from parent sample CTIW-02S-20170403 was qualified as estimated and assigned a “UJ” qualifier.

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 6

SDG/Report No.: 440-181291-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTIW-02D-20170404, CTIW-03D-20170404, CTIW-03S-20170404, CTMW-01S-20170404 and CTMW-02D-20170404 were qualified with a "J-", "J+" or "R". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-02D-20170404 was qualified with a "J" or "UJ". |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperature: 5.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTMW-01S-20170404 | 440-181291-1 | 04/04/2017 |
| CTMW-02D-20170404 | 440-181291-2 | 04/04/2017 |
| CTIW-02D-20170404 | 440-181291-3 | 04/04/2017 |
| CTIW-03S-20170404 | 440-181291-4 | 04/04/2017 |
| CTIW-03D-20170404 | 440-181291-5 | 04/04/2017 |
| CTMW-02D-20170404-FD | 440-181291-6 | 04/04/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 365.3: The Orthophosphate as P and Orthophosphorus as PO ₄ results from parent samples CTIW-02D-20170404, CTIW-03D-20170404, CTIW-03S-20170404, CTMW-01S-20170404 and CTMW-02D-20170404 were qualified as estimated and assigned a “J-” qualifier. | |
| Method VFA_IC: The Pyruvic acid result from parent sample CTIW-03S-20170404 was qualified as estimated and assigned a “UJ” qualifier. The Formic-acid, Lactic Acid and n-Butyric acid results from parent sample CTMW-02D-20170404 were qualified as estimated and assigned a “UJ” qualifier. | |
| Method 6010B: The Chromium result from parent sample CTMW-01S-20170404 was qualified as estimated and assigned a “J+” qualifier. | |
| Method 6020: The Chromium, Vanadium and Selenium results from parent sample CTMW-02D-20170404 were qualified as estimated and assigned a “J-” or “R” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

| | |
|--|--------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method SM4500_S2_D: The Total Sulfide result from parent sample CTMW-02D-20170404 was qualified as estimated and assigned a "J" qualifier. | |
| Method 6020: The Aluminum and Zinc results from parent sample CTMW-02D-20170404 were qualified as estimated and assigned a "UJ" or "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 6

SDG/Report No.: 440-181417-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-02S-20170405 and CTMW-03S-20170405 were qualified with a "UJ", R", "J+" or "J-". |
| 7. Laboratory Control Samples | X | | Yes | Parent sample CTMW-03S-20170405 was qualified with a "UJ". |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 3.2° and 4.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTMW-02S-20170405 | 440-181417-1 | 04/05/2017 |
| CTMW-03S-20170405 | 440-181417-2 | 04/05/2017 |
| CTMW-04S-20170405 | 440-181417-3 | 04/05/2017 |
| CTMW-04D-20170405 | 440-181417-4 | 04/05/2017 |
| CTIW-01S-20170405 | 440-181417-5 | 04/05/2017 |
| CTMW-02S-20170405-TB | 440-181417-6 | 04/05/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method VFA_IC: The Formic-acid, Lactic Acid and Pyruvic acid results from parent sample CTMW-03S-20170405 were qualified as estimated and assigned a “UJ” qualifier. | |
| Method 6020: The Iron, Vanadium, Chromium and Zinc results from parent sample CTMW-02S-20170405 were qualified as estimated and assigned a “R”, “J+” or “J-“ qualifier. | |

| | |
|--|------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/No |
| Method 8260B LL: The Dichlorodifluoromethane result from parent sample CTMW-03S-20170405 was qualified as estimated and assigned a “UJ” qualifier. | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 3

SDG/Report No.: 440-181550-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTIW-01D-20170406 and CTMW-03D-20170406 were qualified with a "R" or "J". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 2.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTIW-01D-20170406 | 440-181550-1 | 04/06/2017 |
| CTMW-03D-20170406 | 440-181550-2 | 04/06/2017 |
| CTIW-01D-20170406-TB | 440-181550-3 | 04/06/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 365.3: The Orthophosphate as P and Orthophosphorus as PO ₄ results from parent samples CTIW-01D-20170406 and CTMW-03D-20170406 were qualified as estimated and assigned a “J-” qualifier. | |
| Method 6020: The Vanadium, Aluminum, Chromium and Zinc results from parent sample CTMW-03D-20170406 were qualified as estimated and assigned a “R” or “J-“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 1

SDG/Report No.: 440-181552-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent sample UFMW-04I-20170406 was qualified with a "J-". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample UFMW-04I-20170406 was qualified with a "J+". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperature: 2.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-04I-20170406 | 440-181552-1 | 04/06/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|---|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 7199: The Hexavalent Chromium result from parent sample UFMW-04I-20170406 was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 6020: The Aluminum result from parent sample UFMW-04I-20170406 was qualified as estimated and assigned a “J+“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 3

SDG/Report No.: 440-181652-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperature: 2.8°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-04S-20170407 | 440-181652-1 | 04/07/2017 |
| UFMW-05S-20170407 | 440-181652-2 | 04/07/2017 |
| UFMW-05I-20170407 | 440-181652-3 | 04/07/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 7

SDG/Report No.: 440-181739-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample UFIW-06S-20170410 was qualified with a "J". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample UFMW-06I-20170410 was qualified with a "J". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 1.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| UFMW-06S-20170410 | 440-181739-1 | 04/10/2017 |
| UFMW-06I-20170410 | 440-181739-2 | 04/10/2017 |
| UFMW-06I-20170410-FD | 440-181739-3 | 04/10/2017 |
| UFIW-07S-20170410 | 440-181739-4 | 04/10/2017 |
| UFIW-05S-20170410 | 440-181739-5 | 04/10/2017 |
| UFIW-05I-20170410 | 440-181739-6 | 04/10/2017 |
| UFIW-06S-20170410 | 440-181739-7 | 04/10/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 6020: The Manganese and Copper results from parent sample UFIW-06S-20170410 were qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 6020: The Aluminum and Zinc results from parent sample UFMW-06I-20170410 were qualified as estimated and assigned a "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 1

SDG/Report No.: 440-181742-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 1.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFIW-08S-20170410 | 440-181742-1 | 04/10/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 7

SDG/Report No.: 440-181867-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 2.4°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-03I-20170411 | 440-181867-1 | 04/11/2017 |
| UFMW-02I-20170411 | 440-181867-2 | 04/11/2017 |
| UFMW-01I-20170411 | 440-181867-3 | 04/11/2017 |
| UFIW-01S-20170411 | 440-181867-4 | 04/11/2017 |
| UFIW-06I-20170411 | 440-181867-5 | 04/11/2017 |
| UFIW-07I-20170411 | 440-181867-6 | 04/11/2017 |
| UFIW-08I-20170411 | 440-181867-7 | 04/11/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 314.0: Perchlorate recoveries in the MS/MSD were outside limits. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method 6020: The Aluminum result from parent sample UFMW-03I-20170411 was qualified as estimated and assigned a “J-” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 8

SDG/Report No.: 440-181998-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent samples UFIW-02S-20170412 and UFIW-03I-20170412 were qualified with a "J" or "UJ". |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperature: 4.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| UFIW-03I-20170412 | 440-181998-1 | 04/12/2017 |
| UFMW-02S-20170412 | 440-181998-2 | 04/12/2017 |
| UFIW-04S-20170412 | 440-181998-3 | 04/12/2017 |
| UFIW-03S-20170412 | 440-181998-4 | 04/12/2017 |
| UFIW-02I-20170412 | 440-181998-5 | 04/12/2017 |
| UFIW-01I-20170412 | 440-181998-6 | 04/12/2017 |
| UFIW-02S-20170412 | 440-181998-7 | 04/12/2017 |
| UFIW-02S-20170412-FD | 440-181998-8 | 04/12/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|--|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 300.0: The Nitrate as N result from parent sample UFIW-02S-20170412 was qualified as estimated and assigned a "UJ" qualifier. | |
| Method SM4500_S2_D: The Total Sulfide result from parent sample UFIW-02S-20170412 was qualified as estimated and assigned a "J" qualifier. | |
| Method 6010B: The Chromium result from parent sample UFIW-02S-20170412 was qualified as estimated and assigned a "UJ" or "J" qualifier. | |
| Method 6020: The Antimony, Arsenic and Uranium results from parent sample UFIW-02S-20170412 was qualified as estimated and assigned a "J" qualifier. The Zinc result from parent sample UFIW-03I-20170412 was qualified as estimated and assigned a "UJ" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 1

SDG/Report No.: 440-181999-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample UFIW-04I-20170412 was qualified with a "UJ" or "J-". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 4.0°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFIW-04I-20170412 | 440-181999-1 | 04/12/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 6020: The Selenium and Manganese results from parent sample UFIW-04I-20170412 were qualified as estimated and assigned a “UJ” or “J-“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 5

SDG/Report No.: 440-183557-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-02D-20170503 was qualified with a "J" or "UJ". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:
Cooler Temperature: 4.8°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTMW-01S-20170503 | 440-183557-1 | 05/03/2017 |
| CTMW-01D-20170503 | 440-183557-2 | 05/03/2017 |
| CTMW-02D-20170503 | 440-183557-3 | 05/03/2017 |
| CTMW-02D-20170503-FD | 440-183557-4 | 05/03/2017 |
| CTMW-01S-20170503-TB | 440-183557-5 | 05/03/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|--|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 314.0: The Perchlorate result from parent sample CTMW-02D-20170503 was qualified as estimated and assigned a "J" qualifier. | |
| Method 365.3: The Total Phosphorus result from parent sample CTMW-02D-20170503 was qualified as estimated and assigned a "UJ" qualifier. | |
| Method 8260B LL: The 1,4-Dichlorobenzene result from parent sample CTMW-02D-20170503 was qualified as estimated and assigned a "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-183688-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-04D-20170504 was qualified with a "J+", "J-" or "R". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 0.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-04D-20170504 | 440-183688-1 | 05/04/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 6020: The Chromium, Vanadium, Selenium and Zinc results from parent sample CTMW-04D-20170504 were qualified as estimated and assigned a “J+”, “J-“ or “R” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 3

SDG/Report No.: 440-183689-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-02S-20170504 and CTMW-04S-20170504 were qualified with a "J". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 0.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTMW-04S-20170504 | 440-183689-1 | 05/04/2017 |
| CTMW-02S-20170504 | 440-183689-2 | 05/04/2017 |
| CTMW-04S-20170504-TB | 440-183689-3 | 05/04/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 365.3: The Orthophosphate as P and Orthophosphorus as PO ₄ results from parent samples CTMW-02S-20170504 and CTMW-04S-20170504 were qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 3

SDG/Report No.: 440-183810-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-03D-20170505 and CTMW-03S-20170505 were qualified with a "J-", "R" or "J+." |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 2.4°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTMW-03S-20170505 | 440-183810-1 | 05/05/2017 |
| CTMW-03D-20170505 | 440-183810-2 | 05/05/2017 |
| CTMW-03S-20170505-TB | 440-183810-3 | 05/05/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 365.3: The Orthophosphate as P and Orthophosphorus as PO ₄ results from parent samples CTMW-03D-20170505 and CTMW-03S-20170505 were qualified as estimated and assigned a “J-“ qualifier. | |
| Method 6010B: The Chromium result from parent sample CTMW-03S-20170505 was qualified as estimated and assigned a “J-“ qualifier. | |
| Method 6020: The Vanadium and Chromium results from parent sample CTMW-03D-20170505 was qualified as estimated and assigned a “R” or “J+“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 4

SDG/Report No.: 440-184556-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-01D-20170516 was qualified with a "R", "UJ" or "J". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 5.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTMW-01S-20170516 | 440-184556-1 | 05/16/2017 |
| CTMW-01D-20170516 | 440-184556-2 | 05/16/2017 |
| CTMW-02S-20170516 | 440-184556-3 | 05/16/2017 |
| CTMW-01S-20170516-TB | 440-184556-4 | 05/16/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 6020: The Vanadium, Cadmium, Copper, Manganese, Nickel, Selenium and Zinc results from parent sample CTMW-01D-20170516 were qualified as estimated and assigned a “R”, “UJ” or “J-“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 7

SDG/Report No.: 440-184659-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-02D-20170517, CTMW-03D-20170517, CTMW-03S-20170517, CTMW-04D-20170517 and CTMW-04S-20170517 were qualified with a "R", "J-", "J+" or "UJ". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-04D-20170517 was qualified with a "UJ". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 2.9° and 4.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTMW-02D-20170517 | 440-184659-1 | 05/17/2017 |
| CTMW-03S-20170517 | 440-184659-2 | 05/17/2017 |
| CTMW-03D-20170517 | 440-184659-3 | 05/17/2017 |
| CTMW-04S-20170517 | 440-184659-4 | 05/17/2017 |
| CTMW-04D-20170517 | 440-184659-5 | 05/17/2017 |
| CTMW-04D-20170517-FD | 440-184659-6 | 05/17/2017 |
| CTMW-02D-20170517-TB | 440-184659-7 | 05/17/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B: The Chlorite and Chlorate results from parent sample CTMW-03D-20170517 were qualified as estimated and assigned a “R” or “J-“ qualifier. | |
| Method 314.0: The Perchlorate result from parent sample CTMW-03D-20170517 was qualified as estimated and assigned a “J-“ qualifier. | |
| Method 351.2: The Total Kjeldahl Nitrogen results from parent samples CTMW-02D-20170517, CTMW-03D-20170517, CTMW-03S-20170517, CTMW-04D-20170517 and CTMW-04S-20170517 were qualified as estimated and assigned a “R“ qualifier. | |
| Method 365.3: The Orthophosphate as P, Orthophosphorus as PO ₄ and Total Phosphorus results from parent samples CTMW-02D-20170517, CTMW-03D-20170517, CTMW-03S-20170517, CTMW-04D-20170517 and CTMW-04S-20170517 were qualified as estimated and assigned a “J-“ or “R“ qualifier. | |
| Method 5220D: The Chemical Oxygen Demand result from parent sample CTMW-03D-20170517 was qualified as estimated and assigned a “R“ qualifier. | |
| Method VFA_IC: The Lactic Acid result from parent sample CTMW-03D-20170517 was qualified as estimated and assigned a “UJ“ qualifier. | |
| Method 6010B: The Chromium result from parent sample CTMW-03D-20170517 was qualified as estimated and assigned a “J+“ qualifier. | |
| Method 6020: The Vanadium, Chromium and Zinc results from parent sample CTMW-03D-20170517 were qualified as estimated and assigned a “R”, “J+“ or “J-“ qualifier. | |
| Method 7199: The Hexavalent Chromium result from parent sample CTMW-03D-20170517 was qualified as estimated and assigned a “J-“ qualifier. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

| | |
|---|--------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 6020: The Selenium result from parent sample CTMW-04D-20170517 was qualified as estimated and assigned a "UJ" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 3

SDG/Report No.: 440-185475-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | X | | Yes | Parent sample CTMW-01S-20170531 was qualified with a "J+." |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-01D-20170531 and CTMW-01S-20170531 were qualified with a "J-." |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 2.0° and 2.7°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-01S-20170531 | 440-185475-1 | 05/31/2017 |
| Trip Blanks | 440-185475-2 | 05/31/2017 |
| CTMW-01D-20170531 | 440-185475-3 | 05/31/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Method 365.3: The Methylene Chloride result from parent sample CTMW-01S-20170531 was qualified as estimated and assigned a “J+” qualifier. | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 365.3: The Orthophosphate as P, Orthophosphorus as PO ₄ and Total Phosphorus results from parent samples CTMW-01D-20170531 and CTMW-01S-20170531 were qualified as estimated and assigned a “J-” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 7

SDG/Report No.: 440-185562-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | X | | Yes | Parent sample CTMW-02S-20170601 was qualified with a "J+". |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-02D-20170601, CTMW-02S-20170601, CTMW-03D-20170601 and CTMW-03S-20170601 were qualified with a "R", "J-", "J+" or "UJ". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-02D-20170601 was qualified with a "J". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 2.2°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| Trip Blank | 440-185562-1 | 06/01/2017 |
| CTMW-02D-20170601 | 440-185562-2 | 06/01/2017 |
| CTMW-02D-20170601-FD | 440-185562-3 | 06/01/2017 |
| CTMW-03S-20170601 | 440-185562-4 | 06/01/2017 |
| Trip Blank 2 | 440-185562-5 | 06/01/2017 |
| CTMW-03D-20170601 | 440-185562-6 | 06/01/2017 |
| CTMW-02S-20170601 | 440-185562-7 | 06/01/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Method 365.3: The Methylene Chloride result from parent sample CTMW-02S-20170601 was qualified as estimated and assigned a “J+” qualifier. | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B: The Chlorite and Chlorate results from parent sample CTMW-03D-20170601 were qualified as estimated and assigned a “R” or “J-” qualifier. | |
| Method 314.0: The Perchlorite result from parent sample CTMW-03D-20170601 was qualified as estimated and assigned a “J-” qualifier. | |
| Method 351.2: The Total Kjeldahl Nitrogen results from parent samples CTMW-02D-20170601, CTMW-02S-20170601, CTMW-03D-20170601 and CTMW-03S-20170601 were qualified as estimated and assigned a “R” qualifier. | |
| Method 365.3: The Orthophosphate as P, Orthophosphorus as PO ₄ and Total Phosphorus results from parent samples CTMW-02D-20170601, CTMW-02S-20170601, CTMW-03D-20170601 and CTMW-03S-20170601 were qualified as estimated and assigned a “J-” or “UJ” qualifier. | |
| Method 5220D: The Chemical Oxygen Demand result from parent sample CTMW-03D-20170601 was qualified as estimated and assigned a “UJ” qualifier. | |
| Method 6010B: The Chromium result from parent sample CTMW-03D-20170601 was qualified as estimated and assigned a “J+” qualifier. | |
| Method 6020: The Arsenic, Chromium and Vanadium results from parent sample CTMW-03D-20170601 were qualified as estimated and assigned a “J+” or “R” qualifier. | |
| Method 7199: The Hexavalent Chromium result from parent sample CTMW-03D-20170601 was qualified as estimated and assigned a “J-” qualifier. | |
| Method 8260B LL: The 1,4-Dichlorobenzene, Methylene Chloride and Chloroform results from parent sample CTMW-03D-20170601 were qualified as estimated and assigned a “UJ”, “J+” or “J-” qualifier. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

| | |
|---|--------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 6010B: The Iron result from parent sample CTMW-02D-20170601 was qualified as estimated and assigned a "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-183643-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 2.2°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-04D-20170602 | 440-185643-1 | 06/02/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 2

SDG/Report No.: 440-185644-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-04S-20170602 was qualified with a "J". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:
Cooler Temperature: 2.2°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| Trip Blank | 440-185644-1 | 06/02/2017 |
| CTMW-04S-20170602 | 440-185644-2 | 06/02/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 365.3: The Orthophosphate as P, Orthophosphorus as PO ₄ and Total Phosphorus results from parent sample CTMW-04S-20170602 were qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 12

SDG/Report No.: 440-185751-1
 Lab ID: Test America Irvine
 Matrix: Solid and Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent sample CTMW-05D-45.0-20170605 was qualified with a "J-". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | Yes | Parent samples CTMW-05D-25.0-20170605, CTMW-05D-30.0-20170605, CTMW-05D-35.0-20170605, CTMW-05D-40.0-20170605, CTMW-05D-45.0-20170605 and CTMW-05D-50.0-20170605 were qualified with a "J-". |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-05D-0.5-20170605, CTMW-05D-10.0-20170605, CTMW-05D-15.0-20170605, CTMW-05D-25.0-20170605, CTMW-05D-30.0-20170605, CTMW-05D-35.0-20170605, CTMW-05D-40.0-20170605, CTMW-05D-45.0-20170605, CTMW-05D-5.0-20170605 and CTMW-05D-50.0-20170605 were qualified with a "J+", "J-" or "UJ". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | Parent sample CTMW-05D-15.0-20170605 was qualified with a "J". |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 1.9° and 4.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|------------------------|---------------|----------------|
| CTMW-05D-0.5-20170605 | 440-185751-1 | 06/05/2017 |
| CTMW-05D-5.0-20170605 | 440-185751-2 | 06/05/2017 |
| CTMW-05D-10.0-20170605 | 440-185751-3 | 06/05/2017 |
| CTMW-05D-15.0-20170605 | 440-185751-4 | 06/05/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

| | | |
|---------------------------|---------------|------------|
| CTMW-05D-15.0-20170605-FD | 440-185751-5 | 06/05/2017 |
| CTMW-05D-25.0-20170605 | 440-185751-6 | 06/05/2017 |
| CTMW-05D-30.0-20170605 | 440-185751-7 | 06/05/2017 |
| CTMW-05D-35.0-20170605 | 440-185751-8 | 06/05/2017 |
| CTMW-05D-40.0-20170605 | 440-185751-9 | 06/05/2017 |
| CTMW-05D-45.0-20170605 | 440-185751-10 | 06/05/2017 |
| CTMW-05D-50.0-20170605 | 440-185751-11 | 06/05/2017 |
| CTMW-05D-50.0-20170605-EB | 440-185751-12 | 06/05/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 300.0: The Nitrate as NO ₃ result from parent sample CTMW-05D-45.0-20170605 was qualified as estimated and assigned a “J-“ qualifier. | |
| Method 7199: The Hexavalent Chromium results from parent samples CTMW-05D-0.5-20170605, CTMW-05D-10.0-20170605, CTMW-05D-15.0-20170605, CTMW-05D-25.0-20170605, CTMW-05D-30.0-20170605, CTMW-05D-35.0-20170605, CTMW-05D-40.0-20170605, CTMW-05D-45.0-20170605, CTMW-05D-5.0-20170605 and CTMW-05D-50.0-20170605 were qualified as estimated and assigned a “J-“ or “UJ” qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|---|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B_Leach: The Chlorate results from parent samples CTMW-05D-25.0-20170605, CTMW-05D-30.0-20170605, CTMW-05D-35.0-20170605, CTMW-05D-40.0-20170605, CTMW-05D-45.0-20170605 and CTMW-05D-50.0-20170605 were qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 314.0: The Perchlorate result from parent sample CTMW-05D-0.5-20170605 was qualified as estimated and assigned a “J+“ qualifier. | |
| Method 6010B_Leach: The Sodium result from parent sample CTMW-05D-45.0-20170605 was qualified as estimated and assigned a “J-“ qualifier. | |
| Method 6020: The Antimony result from parent sample CTMW-05D-45.0-20170605 was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

| | |
|---|--------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 314.0: The Perchlorate result from parent sample CTMW-05D-15.0-20170605 was qualified as estimated and assigned a "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 2

SDG/Report No.: 440-185844-1
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent samples CTMW-05D-55.0-20170605 and CTMW-05D-60.0-20170605 were qualified with a "J-". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | Yes | Parent samples CTMW-05D-55.0-20170605 and CTMW-05D-60.0-20170605 were qualified with a "J+" or "J-". |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 4.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|------------------------|---------------|----------------|
| CTMW-05D-55.0-20170605 | 440-185844-1 | 06/05/2017 |
| CTMW-05D-60.0-20170605 | 440-185844-2 | 06/05/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 7199: The Hexavalent Chromium results from parent samples CTMW-05D-55.0-20170605 and CTMW-05D-60.0-20170605 were qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B Leach: The Chlorate results from parent samples CTMW-05D-55.0-20170605 and CTMW-05D-60.0-20170605 were qualified as estimated and assigned a “J+” or “J-“ qualifier. | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-185847-1
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent sample CTMW-05D-20.0-20170605 was qualified with a "J-". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | Yes | Parent sample CTMW-05D-20.0-20170605 was qualified with a "J-". |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperature: 4.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|------------------------|---------------|----------------|
| CTMW-05D-20.0-20170605 | 440-185847-1 | 06/05/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 300.0: The Nitrate as NO ₃ result from parent sample CTMW-05D-20.0-20170605 was qualified as estimated and assigned a “J-“ qualifier. | |
| Method 7199: The Hexavalent Chromium result from parent sample CTMW-05D-20.0-20170605 was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B_Leach: The Chlorate result from parent sample CTMW-05D-20.0-20170605 was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 15

SDG/Report No.: 440-185869-1
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Samples CTMW-06D-30.0-20170606, CTMW-06D-35.0-20170606, CTMW-06D-40.0-20170606, CTMW-06D-43.5-20170606, CTMW-06D-45.0-20170606, CTMW-06D-50.0-20170606 and CTMW-06D-55.0-20170606 were qualified with a "J". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-06D-0.5-20170606 and CTMW-06D-25.0-20170606 were qualified with a "J" or "UJ". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | Parent sample CTMW-05D-15.0-20170605 was qualified with a "J". |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified.</p> <p>Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> <p>Revisions to ADR results: MS, surrogate. See below.</p> | | | | |

Sample Information:

Cooler Temperatures: 2.1° and 4.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------------|---------------|----------------|
| CTMW-06D-0.5-20170606 | 440-185869-1 | 06/06/2017 |
| CTMW-06D-5.0-20170606 | 440-185869-2 | 06/06/2017 |
| CTMW-06D-10.0-20170606 | 440-185869-3 | 06/06/2017 |
| CTMW-06D-10.0-20170606-FD | 440-185869-4 | 06/06/2017 |
| CTMW-06D-15.0-20170606 | 440-185869-5 | 06/06/2017 |
| CTMW-06D-20.0-20170606 | 440-185869-6 | 06/06/2017 |
| CTMW-06D-25.0-20170606 | 440-185869-7 | 06/06/2017 |
| CTMW-06D-30.0-20170606 | 440-185869-8 | 06/06/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

| | | |
|---------------------------|---------------|------------|
| CTMW-06D-35.0-20170606 | 440-185869-9 | 06/06/2017 |
| CTMW-06D-40.0-20170606 | 440-185869-10 | 06/06/2017 |
| CTMW-06D-45.0-20170606 | 440-185869-11 | 06/06/2017 |
| CTMW-06D-50.0-20170606 | 440-185869-12 | 06/06/2017 |
| CTMW-06D-55.0-20170606 | 440-185869-13 | 06/06/2017 |
| CTMW-06D-55.0-20170606-EB | 440-185869-14 | 06/06/2017 |
| CTMW-06D-43.5-20170606 | 440-185869-15 | 06/06/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|---|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 7199: The Hexavalent Chromium results from parent samples CTMW-06D-30.0-20170606, CTMW-06D-35.0-20170606, CTMW-06D-40.0-20170606, CTMW-06D-43.5-20170606, CTMW-06D-45.0-20170606, CTMW-06D-50.0-20170606 and CTMW-06D-55.0-20170606 were qualified as estimated and assigned a “J-”qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|---|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B_Leach: Surrogate recoveries for most samples were outside limits because of dilution. No qualification. | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B: The Chlorate result from parent sample CTMW-06D-0.5-20170606 was qualified as estimated and assigned a “J-” qualifier. MS/MS recoveries were out in CTMW-06D-40.0-20170606 and CTMW-06D-45.0-20170606 also, but concentrations in the parent samples were >4x the amount spiked | |
| Method 314.0: Perchlorate recoveries in the MS/MSD of CTMW-06D-45.0-20170606 were outside limits. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method 7199: The Hexavalent Chromium result from parent sample CTMW-06D-25.0-20170606 was qualified as estimated and assigned a “UJ” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

| 9. Compound Quantitation and Reporting Limits | |
|--|-------------|
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

| 10. Duplicates | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 314.0: The Perchlorate result from parent sample CTMW-05D-15.0-20170605 was qualified as estimated and assigned a "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-185875-1
 Lab ID: Test America Irvine
 Matrix: Solid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent sample CTMW-06D-60.0-20170606 was qualified with a "J-". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | X | | Yes | Parent sample CTMW-06D-60.0-20170606 was qualified with a "J-". |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 2.1° and 4.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|------------------------|---------------|----------------|
| CTMW-06D-60.0-20170606 | 440-185875-1 | 06/06/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|---|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 7199: The Hexavalent Chromium results from parent sample CTMW-06D-60.0-20170606 was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/No |
| Method 300.1B Leach: The Chlorate results from parent sample CTMW-06D-60.0-20170606 was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 1

SDG/Report No.: 440-186792-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperature: 2.5°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-01I-20170619 | 440-186792-1 | 06/19/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 4

SDG/Report No.: 440-186795-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperature: 2.5°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-01S-20170619 | 440-186795-1 | 06/19/2017 |
| UFMW-01D-20170619 | 440-186795-2 | 06/19/2017 |
| UFMW-02S-20170619 | 440-186795-3 | 06/19/2017 |
| UFMW-02I-20170619 | 440-186795-4 | 06/19/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 6

SDG/Report No.: 440-186829-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent samples CTMW-01D-20170619 and CTMW-01S-20170619 were qualified with a "J-" or "UJ". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-01D-20170619, CTMW-01S-20170619 and CTMW-02D-20170619 were qualified with a "R", "J-" or "J+". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 3.9° and 5.0°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| Trip Blank | 440-186829-1 | 06/19/2017 |
| CTMW-01S-20170619 | 440-186829-2 | 06/19/2017 |
| CTMW-01D-20170619 | 440-186829-3 | 06/19/2017 |
| CTMW-02D-20170619 | 440-186829-4 | 06/19/2017 |
| CTMW-02D-20170619-FD | 440-186829-5 | 06/19/2017 |
| Trip Blank | 440-186829-6 | 06/19/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 7199: The Hexavalent Chromium results from parent samples CTMW-01D-20170619 and CTMW-01S-20170619 were qualified as estimated and assigned a “J-“ or “UJ” qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 365.3: The Total Phosphorus result from parent sample CTMW-02D-20170619 was qualified as estimated and assigned a “R” qualifier. | |
| Method 5220D: The Chemical Oxygen Demand results from parent samples CTMW-01D-20170619 and CTMW-02D-20170619 were qualified as estimated and assigned a “R” qualifier. | |
| Method SM4500_S2_D: The Total Sulfide results from parent samples CTMW-01D-20170619, CTMW-01S-20170619 and CTMW-02D-20170619 were qualified as estimated and assigned a “R” or “J-“ qualifier. | |
| Method 6010B: The Chromium result from parent sample CTMW-01D-20170619 was qualified as estimated and assigned a “J+“ qualifier. The Iron result from parent sample CTMW-01S-20170619 was qualified as estimated and assigned a “J+“ qualifier. | |
| Method 6020: The Chromium and Vanadium results from parent sample CTMW-01D-20170619 was qualified as estimated and assigned a “J+“ or “R” qualifier. | |
| Method 7199: The Hexavalent Chromium result from parent sample CTMW-01D-20170619 was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

| | |
|---|---------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-186829-2
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 3.9° and 5.0 °

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-01S-20170619 | 440-186829-2 | 06/19/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

| | |
|---|---------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

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Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-186901-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 2.3° and 4.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-04S-20170620 | 440-186901-1 | 06/20/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 4

SDG/Report No.: 440-186906-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 2.3° and 4.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| Trip Blank | 440-186906-1 | 06/20/2017 |
| CTMW-02S-20170620 | 440-186906-2 | 06/20/2017 |
| CTMW-03S-20170620 | 440-186906-3 | 06/20/2017 |
| CTMW-03D-20170620 | 440-186906-4 | 06/20/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 6

SDG/Report No.: 440-186917-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample UFMW-02D-20170620 was qualified with a "J-". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 2.6° and 4.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| UFMW-03I-20170620 | 440-186917-1 | 06/20/2017 |
| UFMW-03D-20170620 | 440-186917-2 | 06/20/2017 |
| UFMW-02D-20170620 | 440-186917-3 | 06/20/2017 |
| UFMW-04S-20170620 | 440-186917-4 | 06/20/2017 |
| UFMW-04I-20170620 | 440-186917-5 | 06/20/2017 |
| UFMW-04I-20170620-FD | 440-186917-6 | 06/20/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 7199: The Hexavalent Chromium result from parent sample UFMW-02D-20170620 was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 6

SDG/Report No.: 440-187071-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-05D-20170621 was qualified with a "UJ." |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 2.5°, 2.6° and 4.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| Trip Blank | 440-187017-1 | 06/21/2017 |
| CTMW-04D-20170621 | 440-187017-2 | 06/21/2017 |
| CTMW-05S-20170621 | 440-187017-3 | 06/21/2017 |
| CTMW-05D-20170621 | 440-187017-4 | 06/21/2017 |
| CTMW-05D-20170621-FD | 440-187017-5 | 06/21/2017 |
| CTMW-06S-20170621 | 440-187017-6 | 06/21/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 6010B: The Manganese result from parent sample CTMW-05D-20170621 was qualified as estimated and assigned a "UJ" qualifier. | |
| Method 6020: The Selenium result from parent sample CTMW-05D-20170621 was qualified as estimated and assigned a "UJ" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 5

SDG/Report No.: 440-187020-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | All parent samples were qualified with a "J" or "UJ". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample UFMW-05D-20170621 was qualified with a "J-". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 1.6° and 4.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-04D-20170621 | 440-187020-1 | 06/21/2017 |
| UFMW-05S-20170621 | 440-187020-2 | 06/21/2017 |
| UFMW-05I-20170621 | 440-187020-3 | 06/21/2017 |
| UFMW-05D-20170621 | 440-187020-4 | 06/21/2017 |
| UFMW-06S-20170621 | 440-187020-5 | 06/21/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.0: The Nitrate as N result from parent sample UFMW-05D-20170621 was qualified as estimated and assigned a “J” qualifier. | |
| Method 300.1B: The Chlorate recoveries in the MS/MSD of UFMW-05D-20170621 were outside limits. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method 314.0: Perchlorate recoveries in the MS/MSD were outside limits. The concentration in the parent sample was >4x the amount spiked, so recovery criteria do not apply. No qualification is needed. | |
| Method SM4500_S2_D: The Total Sulfide results from all parent samples were qualified as estimated and assigned a “UJ” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 9. Compound Quantitation and Reporting Limits | |
|--|-------------|
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

| 10. Duplicates | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 300.0: The Nitrate as N result from parent sample UFMW-05D-20170621 was qualified as estimated and assigned a "J-" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 2

SDG/Report No.: 440-187098-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:
Cooler Temperature: 4.0°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| UFMW-06D-20170622 | 440-187098-1 | 06/22/2017 |
| UFMW-06D-20170622-FD | 440-187098-2 | 06/22/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
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| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

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| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

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| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

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|---|---------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

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Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 1

SDG/Report No.: 440-187099-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:
Cooler Temperature: 4.0°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-06I-20170622 | 440-187099-1 | 06/22/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

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|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

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| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

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|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

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|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

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|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

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| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

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| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

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|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

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|---|---------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

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Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 2

SDG/Report No.: 440-187101-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | X | | Yes | Parent sample CTMW-06D-20170622 was qualified with a "J-". |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-06D-20170622 was qualified with a "J-". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperature: 4.0°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| TRIP BLANK | 440-187101-1 | 06/22/2017 |
| CTMW-06D-20170622 | 440-187101-2 | 06/22/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

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|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| Method 6010B: The Zinc result from parent sample CTMW-06D-20170622 was qualified as estimated and assigned a “J+” qualifier. | |

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|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 6010B: The Chromium result from parent sample CTMW-06D-20170622 was qualified as estimated and assigned a “J-” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 5

SDG/Report No.: 440-188487-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-06D-20170717 was qualified with a "J". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-06D-20170717 was qualified with a "UJ". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 1.1°, 2.0° and 4.2°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| TRIP BLANK | 440-188487-1 | 07/17/2017 |
| CTMW-06S-20170717 | 440-188487-2 | 07/17/2017 |
| CTMW-06D-20170717 | 440-188487-3 | 07/17/2017 |
| CTMW-06D-20170717-FD | 440-188487-4 | 07/17/2017 |
| CTMW-05S-20170717 | 440-188487-5 | 07/17/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 6010B: The Chromium result from parent sample CTMW-06D-20170717 was qualified as estimated and assigned a “J” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 6010B: The Iron result from parent sample CTMW-06D-20170717 was qualified as estimated and assigned a "UJ" qualifier. | |
| Method 6020: The Copper result from parent sample CTMW-06D-20170717 was qualified as estimated and assigned a "UJ" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 5

SDG/Report No.: 440-188538-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent sample CTMW-05D-20170718 was qualified with a "J-". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-03S-20170718, CTMW-04D-20170718, CTMW-04S-20170718 and CTMW-05D-20170718 were qualified with a "J+", "J-", "UJ" or "R". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-05D-20170718 was qualified with a "UJ". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 1.2°, 1.6°, 3.3° and 4.7°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| Trip Blank | 440-188538-1 | 07/18/2017 |
| CTMW-05D-20170718 | 440-188538-2 | 07/18/2017 |
| CTMW-04D-20170718 | 440-188538-3 | 07/18/2017 |
| CTMW-04S-20170718 | 440-188538-4 | 07/18/2017 |
| CTMW-03S-20170718 | 440-188538-5 | 07/18/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|---|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 7199: The Hexavalent Chromium result from parent sample CTMW-05D-20170718 was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

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|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.0: The Nitrate as N result from parent sample CTMW-05D-20170718 was qualified as estimated and assigned a “J+“ qualifier. | |
| Method 300.1B: The Chlorite and Chlorate results from parent sample CTMW-05D-20170718 were qualified as estimated and assigned a “R” or “J-“ qualifier. | |
| Method 314.0: The Perchlorate result from parent sample CTMW-05D-20170718 was qualified as estimated and assigned a “J+“ qualifier. | |
| Method 351.2: The Total Kjeldahl Nitrogen results from parent samples CTMW-03S-20170718, CTMW-04D-20170718, CTMW-04S-20170718 and CTMW-05D-20170718 were qualified as estimated and assigned a “R“ qualifier. | |
| Method 365.3: The Orthophosphate as P, Orthophosphorus as PO ₄ and Total Phosphorus results from parent samples CTMW-03S-20170718, CTMW-04D-20170718, CTMW-04S-20170718 and CTMW-05D-20170718 were qualified as estimated and assigned a “J-“ or “R” qualifier. | |
| Method 5220D: The Chemical Oxygen Demand results from parent samples CTMW-03S-20170718 and CTMW-05D-20170718 were qualified as estimated and assigned a “R” qualifier. | |
| Method SM4500_S2_D: The Total Sulfide results from parent samples CTMW-03S-20170718, CTMW-04D-20170718, CTMW-04S-20170718 and CTMW-05D-20170718 were qualified as estimated and assigned a “J-“ or “UJ” qualifier. | |
| Method VFA_IC: All results from parent sample CTMW-05D-20170718 were qualified as estimated and assigned a “UJ“ qualifier. | |
| Method 6010B: The Chromium result from parent sample CTMW-05D-20170718 was qualified as estimated and assigned a “J-“ qualifier. | |

Data Verification and Validation Summary
Data Validation Stage 2A

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| Method 6020: The Chromium, Uranium and Vanadium results from parent sample CTMW-05D-20170718 was qualified as estimated and assigned a “J-“, “J+” or “R” qualifier. |
| Method 7199: The Hexavalent Chromium result from parent sample CTMW-05D-20170718 was qualified as estimated and assigned a “J-“ qualifier. |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

| | |
|--|--------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method VFA_IC: The Acetic acid, Formic-acid, Lactic Acid, n-Butyric acid and Propionic acid results from parent sample CTMW-05D-20170718 were qualified as estimated and assigned a “UJ“ qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 4

SDG/Report No.: 440-188655-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-02D-20170719, CTMW-02S-20170719 and CTMW-03D-20170719 were qualified with a "J+", "J-", "J", "UJ" or "R". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-02D-20170719 was qualified with a "UJ". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 2.2° and 2.4°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| Trip Blank | 440-188655-1 | 07/19/2017 |
| CTMW-03D-20170719 | 440-188655-2 | 07/19/2017 |
| CTMW-02S-20170719 | 440-188655-3 | 07/19/2017 |
| CTMW-02D-20170719 | 440-188655-4 | 07/19/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 365.3: The Orthophosphate as P and Orthophosphorus as PO ₄ results from parent samples CTMW-02D-20170719, CTMW-02S-20170719 and CTMW-03D-20170719 were qualified as estimated and assigned a “J-“ qualifier. | |
| Method 6010B: The Chromium result from parent sample CTMW-03D-20170719 was qualified as estimated and assigned a “J+“ qualifier. | |
| Method 6020: The Chromium, Iron and Vanadium results from parent sample CTMW-02D-20170719 were qualified as estimated and assigned a “J“, “UJ” or “R” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
|---|--------|

Method 6020: The Iron result from parent sample CTMW-02D-20170719 was qualified as estimated and assigned a “UJ” qualifier.

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 3

SDG/Report No.: 440-188722-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-01D-20170720 were qualified with a "J-", "J", "UJ" or "R". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-01D-20170720 was qualified with a "J" or "R". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 2.7° and 3.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| Trip Blank | 440-188722-1 | 07/20/2017 |
| CTMW-01D-20170720 | 440-188722-2 | 07/20/2017 |
| CTMW-01D-20170720-FD | 440-188722-3 | 07/20/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

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|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

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|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

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|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B: The Chlorite and Chlorate results from parent sample CTMW-01D-20170720 were qualified as estimated and assigned a “R” or “J-“ qualifier. | |
| Method 365.3: The Orthophosphate as P and Orthophosphorus as PO ₄ results from parent sample CTMW-01D-20170720 were qualified as estimated and assigned a “J-“ qualifier. | |
| Method VFA_IC: The Pyruvic acid result from parent sample CTMW-01D-20170720 was qualified as estimated and assigned a “UJ“ qualifier. | |
| Method 6020: The Chromium, Vanadium and Zinc results from parent sample CTMW-01D-20170720 were qualified as estimated and assigned a “J“, “J-” or “R” qualifier. | |

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| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

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|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

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|---|--------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 6020: The Iron and Zinc results from parent sample CTMW-01D-20170720 were qualified as estimated and assigned a "J" or "R" qualifier. | |
| Method RSK-175: The Methane (FID) result from parent sample CTMW-01D-20170720 was qualified as estimated and assigned a "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 3

SDG/Report No.: 440-188726-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-01S-20170720 was qualified with a "J". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 2.7° and 3.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-01S-20170720 | 440-188726-1 | 07/20/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

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|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

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|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

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|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 6010B: The Iron results from parent sample CTMW-01S-20170720 was qualified as estimated and assigned a “J” qualifier. | |

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| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

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|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

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|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 5

SDG/Report No.: 440-190307-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | X | | Yes | Parent samples UFMW-06D-20170815 and UFMW-06I-20170815 were qualified with a "J-". |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | All parent samples were qualified with a "J-" or "UJ". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 1.1° and 3.5°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| UFMW-06D-20170815 | 440-190307-1 | 08/15/2017 |
| UFMW-06I-20170815 | 440-190307-2 | 08/15/2017 |
| UFMW-06I-20170815-FD | 440-190307-3 | 08/15/2017 |
| UFMW-06S-20170815 | 440-190307-4 | 08/15/2017 |
| UFMW-05D-20170815 | 440-190307-5 | 08/15/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|---|----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| Method 300.0: The Nitrate as N result from parent samples UFMW-06D-20170815 and UFMW-06I-20170815 were qualified as estimated and assigned a “J-“ qualifier. | |
| Method 7199: The Hexavalent Chromium result from parent sample UFMW-06D-20170815 was qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B: The Chlorate result from parent sample UFMW-06D-20170815 was qualified as estimated and assigned a “J-“ qualifier. | |
| Method 314.0 ppm: The Perchlorate result from all parent samples were qualified as estimated and assigned a “J-“ qualifier. | |
| Method SM4500_S2_D: The Total Sulfide result from all parent samples were qualified as estimated and assigned a “UJ“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 9. Compound Quantitation and Reporting Limits | |
|--|------------|
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 1

SDG/Report No.: 440-190400-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 1.2° and 1.9°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-01I-20170816 | 440-190400-1 | 08/16/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

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|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 6

SDG/Report No.: 440-190402-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | | X | No | |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 1.2° and 1.9°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-05I-20170816 | 440-190402-1 | 08/16/2017 |
| UFMW-05S-20170816 | 440-190402-2 | 08/16/2017 |
| UFMW-04D-20170816 | 440-190402-3 | 08/16/2017 |
| UFMW-04I-20170816 | 440-190402-4 | 08/16/2017 |
| UFMW-04S-20170816 | 440-190402-5 | 08/16/2017 |
| UFMW-01D-20170816 | 440-190402-6 | 08/16/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/No |
| | |

| | |
|---|---------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

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Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 6

SDG/Report No.: 440-190453-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | All parent samples were qualified with a "UJ". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 2.5° and 2.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| UFMW-01S-20170817 | 440-190453-1 | 08/17/2017 |
| UFMW-03D-20170817 | 440-190453-2 | 08/17/2017 |
| UFMW-03I-20170817 | 440-190453-3 | 08/17/2017 |
| UFMW-03I-20170817-FD | 440-190453-4 | 08/17/2017 |
| UFMW-02D-20170817 | 440-190453-5 | 08/17/2017 |
| UFMW-02I-20170817 | 440-190453-6 | 08/17/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method SM4500_S2_D: The Total Sulfide result from all parent samples was qualified as estimated and assigned a “UJ” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 5

SDG/Report No.: 440-190752-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-06D-20170822 was qualified with a "J+" or "R". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 1.1°, 2.4° and 2.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTMW-06D-20170822 | 440-190752-1 | 08/22/2017 |
| CTMW-05D-20170822 | 440-190752-2 | 08/22/2017 |
| CTMW-06S-20170822 | 440-190752-3 | 08/22/2017 |
| CTMW-05S-20170822 | 440-190752-4 | 08/22/2017 |
| CTMW-06D-20170822-TB | 440-190752-5 | 08/22/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B: The Chlorate result from parent sample CTMW-06D-20170822 was qualified as estimated and assigned a “J+” qualifier. | |
| Method 6020: The Chromium and Vanadium results from parent sample CTMW-06D-20170822 were qualified as estimated and assigned a “J+” or “R” qualifier. | |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-190843-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |

| | |
|--|----------------------------|
| Verification and Validation Label | Stage_2A_Validation_Manual |
| Verification and Validation Label Code | S2AVM |

Overall Assessment: Acceptable as qualified.
Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.

Sample Information:

Cooler Temperatures: 1.9°, 2.1° and 3.4°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-03D-20170823 | 440-190843-1 | 08/23/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 4

SDG/Report No.: 440-190847-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | X | | Yes | Parent sample CTMW-04D-20170823 was qualified with a "J". |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-03S-20170823 was qualified with a "J" or "R". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent samples CTMW-04D-20170823 and CTMW-03S-20170823 were qualified with a "J" or "R". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 1.5°, 1.9°, 2.1° and 3.4°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTMW-04D-20170823 | 440-190847-1 | 08/23/2017 |
| CTMW-04D-20170823-FD | 440-190847-2 | 08/23/2017 |
| CTMW-04S-20170823 | 440-190847-3 | 08/23/2017 |
| CTMW-03S-20170823 | 440-190847-4 | 08/23/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| Method 6020: The Manganese result from parent sample CTMW-04D-20170823 was qualified as estimated and assigned a “J” qualifier. | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 6020: The Chromium, Manganese and Vanadium results from parent sample CTMW-03S-20170823 were qualified as estimated and assigned a “J-“ or “R” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|--|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| Method 365.3: The Total Phosphorus result from parent sample CTMW-04D-20170823 was qualified as estimated and assigned a "J" qualifier. | |
| Method 6020: The Vanadium result from parent sample CTMW-03S-20170823 was qualified as estimated and assigned a "R" qualifier. The Manganese result from parent sample CTMW-04D-20170823 was qualified as estimated and assigned a "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 4

SDG/Report No.: 440-190950-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-01D-20170824, CTMW-01S-20170824 and CTMW-02D-20170824 were qualified with a "J", "J-", "J+", "UJ" or "R". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 1.2°, 1.4°, 2.4°, 2.9° and 3.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTMW-02D-20170824 | 440-190950-1 | 08/24/2017 |
| CTMW-01D-20170824 | 440-190950-2 | 08/24/2017 |
| CTMW-01S-20170824 | 440-190950-3 | 08/24/2017 |
| CTMW-02D-20170824-TB | 440-190950-4 | 08/24/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.1B: The Chlorate and Chlorite results from parent sample CTMW-02D-20170824 were qualified as estimated and assigned a “J-“ or “R” qualifier. | |
| Method 314.0: The Perchlorate result from parent sample CTMW-02D-20170824 was qualified as estimated and assigned a “J-“ qualifier. | |
| Method 351.2: The Total Kjeldahl Nitrogen results from parent samples CTMW-01D-20170824, CTMW-01S-20170824 and CTMW-02D-20170824 were qualified as estimated and assigned a “J-“ or “R” qualifier. | |
| Method 365.3: The Orthophosphate as P and Orthophosphorus as PO4 results from parent samples CTMW-01D-20170824, CTMW-01S-20170824 and CTMW-02D-20170824 were qualified as estimated and assigned a “J-“ qualifier. | |
| Method 5220D: The Chemical Oxygen Demand results from parent samples CTMW-01D-20170824, CTMW-01S-20170824 and CTMW-02D-20170824 were qualified as estimated and assigned a “J-“ or “R” qualifier. | |
| Method VFA_IC: The Pyruvic acid result from parent sample CTMW-02D-20170824 was qualified as estimated and assigned a “UJ“ qualifier. | |
| Method 6010B: The Chromium result from parent sample CTMW-02D-20170824 was qualified as estimated and assigned a “J+“ qualifier. | |
| Method 6020: The Chromium, Manganese and Vanadium results from parent sample CTMW-02D-20170824 were qualified as estimated and assigned a “J-“ or “R” qualifier. | |
| Method 7199: The Hexavalent Chromium result from parent sample CTMW-02D-20170824 was qualified as estimated and assigned a “J-“ qualifier. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

| | |
|---|---------|
| 10. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 5

SDG/Report No.: 440-192518-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-05D-20170919, CTMW-05S-20170919, CTMW-06D-20170919 and CTMW-06S-20170919 were qualified with a "UJ", "J-" or "R". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-06D-20170919 was qualified with a "J", "J-" or "UJ". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 1.6°, 2.5° and 3.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| CTMW-06D-20170919 | 440-192518-1 | 09/19/2017 |
| CTMW-06D-20170919-FD | 440-192518-2 | 09/19/2017 |
| CTMW-06S-20170919 | 440-192518-3 | 09/19/2017 |
| CTMW-05D-20170919 | 440-192518-4 | 09/19/2017 |
| CTMW-05S-20170919 | 440-192518-5 | 09/19/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method SM4500_S2_D: The Total Sulfide results from parent samples CTMW-05D-20170919, CTMW-05S-20170919, CTMW-06D-20170919 and CTMW-06S-20170919 were qualified as estimated and assigned a “UJ” qualifier. | |
| Method 6010B: The Chromium result from parent sample CTMW-06D-20170919 was qualified as estimated and assigned a “J-“ qualifier. | |
| Method 6020: The Chromium, Silver and Vanadium results from parent sample CTMW-06D-20170919 were qualified as estimated and assigned a “J-“ or “R” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Method 6020: The Aluminum, Selenium and Silver results from parent sample CTMW-06D-20170919 were qualified as estimated and assigned a "UJ" "J" or "J-" qualifier.

Method 8260B LL: All results from parent sample CTMW-06D-20170919 were qualified as estimated and assigned a "UJ" qualifier.

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-192617-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-02D-20170920 was qualified with a "J-" or "R". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-02D-20170920 was qualified with a "J-". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 2.1°, 2.5° and 3.0°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-02D-20170920 | 440-192617-1 | 09/20/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 365.3: The Orthophosphate as P and Orthophosphorus as PO ₄ results from parent sample CTMW-02D-20170920 were qualified as estimated and assigned a “J-“ qualifier. | |
| Method 6020: The Chromium, Manganese and Vanadium results from parent sample CTMW-02D-20170920 were qualified as estimated and assigned a “J-“ or “R” qualifier. | |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 365.3: The Orthophosphate as P and Orthophosphorus as PO4 results from parent sample CTMW-02D-20170920 were qualified as estimated and assigned a "J-" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 4

SDG/Report No.: 440-192619-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-02D-20170920 was qualified with a "UJ" or "J-". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-02D-20170920 was qualified with a "UJ". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 2.1°, 2.5° and 3.0°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-01D-20170920 | 440-192619-1 | 09/20/2017 |
| CTMW-01S-20170920 | 440-192619-2 | 09/20/2017 |
| CTMW-02S-20170920 | 440-192619-3 | 09/20/2017 |
| CTMW-04D-20170920 | 440-192619-4 | 09/20/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method VFA_IC: The Pyruvic acid result from parent sample CTMW-01D-20170920 was qualified as estimated and assigned a “UJ” qualifier. | |
| Method 6010B: The Chromium result from parent sample CTMW-01D-20170920 was qualified as estimated and assigned a “J-” qualifier. | |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

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|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|--|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method VFA_IC: The Formic-acid and Pyruvic acid results from parent sample CTMW-01D-20170920 were qualified as estimated and assigned a "UJ" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 3

SDG/Report No.: 440-192711-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-03D-20170921, CTMW-03S-20170921 and CTMW-04S-20170921 were qualified with a "J+", "J-" or "R". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-03S-20170921 was qualified with a "J-". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 3.2° and 4.2°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-04S-20170921 | 440-192711-1 | 09/21/2017 |
| CTMW-03D-20170921 | 440-192711-2 | 09/21/2017 |
| CTMW-03S-20170921 | 440-192711-3 | 09/21/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 300.0: The Sulfate result from parent sample CTMW-04S-20170921 was qualified as estimated and assigned a “J+” qualifier. | |
| Method 365.3: The Orthophosphate as P and Orthophosphorus as PO4 results from parent samples CTMW-03D-20170921, CTMW-03S-20170921 and CTMW-04S-20170921 were qualified as estimated and assigned a “J-” qualifier. | |
| Method 6020: The Chromium, Silver and Vanadium results from parent sample CTMW-03S-20170921 were qualified as estimated and assigned a “J+”, “J-” or “R” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 6020: The Silver result from parent sample CTMW-03S-20170921 was qualified as estimated and assigned a “J-“ qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 9

SDG/Report No.: 440-193441-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent samples CTMW-01S-20171003 and CTMW-01D-20171003 were qualified with a “J+” or “UJ”. |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are “J” qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| <p>Overall Assessment: Acceptable as qualified. Field QC samples checked for completeness only. Usability: Sample results qualified “J”, estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 1.1°, 1.2°, 2.0° and 3.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| TRIP BLANK | 440-193441-1 | 10/03/2017 |
| CTMW-01D-20171003 | 440-193441-2 | 10/03/2017 |
| CTMW-02D-20171003 | 440-193441-3 | 10/03/2017 |
| CTMW-01S-20171003 | 440-193441-4 | 10/03/2017 |
| CTMW-02S-20171003 | 440-193441-5 | 10/03/2017 |
| CTMW-03D-20171003 | 440-193441-6 | 10/03/2017 |
| CTMW-04D-20171003 | 440-193441-7 | 10/03/2017 |
| CTMW-03S-20171003 | 440-193441-8 | 10/03/2017 |
| CTMW-04S-20171003 | 440-193441-9 | 10/03/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 314.0: The Perchlorate result from parent sample CTMW-01S-20171003 was qualified as estimated and assigned a “J+” qualifier. | |
| Method VFA_IC: The Propionic acid and Pyruvic acid results from parent sample CTMW-01D-20171003 was qualified as estimated and assigned a “J+” or “UJ” qualifier. | |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-193508-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-06S-20171004 was qualified with a "J". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |

| | |
|--|----------------------------|
| Verification and Validation Label | Stage_2A_Validation_Manual |
| Verification and Validation Label Code | S2AVM |

Overall Assessment: Acceptable as qualified.
 Field QC samples checked for completeness only.
Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.

Sample Information:

Cooler Temperatures: 1.7°, 2.1° and 4.7°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-06S-20171004 | 440-193508-1 | 10/04/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method 6010B: The Manganese and Iron results from parent sample CTMW-06S-20171004 were qualified as estimated and assigned a “J-“ qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
|---|--------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 4

SDG/Report No.: 440-193514-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-06D-20171004 was qualified with a "J" or "UJ". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Field QC samples checked for completeness only. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 1.7°, 2.1° and 4.7°

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| TRIP BLANK | 440-193514-1 | 10/04/2017 |
| CTMW-06D-20171004 | 440-193514-2 | 10/04/2017 |
| CTMW-06D-20171004-FD | 440-193514-3 | 10/04/2017 |
| CTMW-05S-20171004 | 440-193514-5 | 10/04/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

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|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

| 10. Duplicates | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
| Method 365.3: The Total Phosphorus result from parent sample CTMW-06D-20171004 was qualified as estimated and assigned a "UJ" qualifier. | |
| Method VFA_IC: The Lactic Acid, n-Butyric acid and Propionic acid results from parent sample CTMW-06D-20171004 were qualified as estimated and assigned a "UJ" or "J" qualifier. | |
| Method 6020: The Aluminum result from parent sample CTMW-06D-20171004 was qualified as estimated and assigned a "UJ" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT In-Situ Cr Treatability, M12
 Project No.: 44017166
 No. of Samples: 1

SDG/Report No.: 440-193514-2
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | Parent sample CTMW-05D-20171004 was qualified with a "UJ", "J+" or "J-". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample CTMW-05D-20171004 was qualified with a "J-". |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Field QC samples checked for completeness only. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 1.7°, 2.1° and 4.7°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| CTMW-05D-20171004 | 440-193514-4 | 10/04/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Method VFA_IC: The Lactic Acid, Propionic acid and Pyruvic acid results from parent sample CTMW-05D-20171004 were qualified as estimated and assigned a “UJ” qualifier. | |
| Method 6010B: The Chromium and Iron results from parent sample CTMW-05D-20171004 were qualified as estimated and assigned a “J-” or “J+” qualifier. | |
| Method 6020: The Chromium, Copper and Zinc results from parent sample CTMW-05D-20171004 were qualified as estimated and assigned a “J-” or “J+” qualifier. | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Method 6020: The Zinc result from parent sample CTMW-05D-20171004 was qualified as estimated and assigned a “J-” qualifier.

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 4

SDG/Report No.: 440-193552-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|----------------------------|----|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | Stage_2A_Validation_Manual | | | |
| Verification and Validation Label Code | S2AVM | | | |
| Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes. | | | | |

Sample Information:

Cooler Temperatures: 3.1° and 3.6°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-05I-20171004 | 440-193552-1 | 10/04/2017 |
| UFMW-05D-20171004 | 440-193552-2 | 10/04/2017 |
| UFMW-06I-20171004 | 440-193552-3 | 10/04/2017 |
| UFMW-06D-20171004 | 440-193552-4 | 10/04/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 1

SDG/Report No.: 440-193674-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|---|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | | X | No | |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 1.2° and 3.3°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-01D-20171005 | 440-193674-1 | 10/05/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |
| | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit. | |

Data Verification and Validation Summary
Data Validation Stage 2A

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 6

SDG/Report No.: 440-193677-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | X | | Yes | Parent samples UFMW-04D-20171005, UFMW-04I-20171005, UFMW-04S-20171005, UFMW-05S-20171005 and UFMW-06S-20171005 was qualified with a "J+". |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | X | | Yes | All parent samples were qualified with a "J-". |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | X | | Yes | Parent sample UFMW-04D-20171005 was qualified with a "J". |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 1.2 ° and 3.3 °

| Field Sample Number | Lab Sample ID | Date Collected |
|----------------------|---------------|----------------|
| UFMW-04S-20171005 | 440-193677-1 | 10/05/2017 |
| UFMW-04I-20171005 | 440-193677-2 | 10/05/2017 |
| UFMW-05S-20171005 | 440-193677-3 | 10/05/2017 |
| UFMW-06S-20171005 | 440-193677-4 | 10/05/2017 |
| UFMW-04D-20171005 | 440-193677-5 | 10/05/2017 |
| UFMW-04D-20171005-FD | 440-193677-6 | 10/05/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|---|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| <p>Method 6020: The Nickel results from parent samples UFMW-04D-20171005, UFMW-04I-20171005, UFMW-04S-20171005 and UFMW-06S-20171005 were qualified as estimated and assigned a “J+“ qualifier. The Aluminum results from parent samples UFMW-04I-20171005, UFMW-04S-20171005 and UFMW-05S-20171005 were qualified as estimated and assigned a “J+“ qualifier. The Chromium results from parent samples UFMW-04S-20171005 and UFMW-05S-20171005 were qualified as estimated and assigned a “J+“ qualifier.</p> | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| <p>Method 300.1B: The Chlorate result from parent sample UFMW-06S-20171005 was qualified as estimated and assigned a “J-“qualifier.</p> | |
| <p>Method 314.0: The Perchlorate results from all parent samples were qualified as estimated and assigned a “J-“ qualifier.</p> | |
| <p>Method SM4500_S2_D: The Total Sulfide results from all parent samples were qualified as estimated and assigned a “J-“ qualifier.</p> | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |

Data Verification and Validation Summary
Data Validation Stage 2A

| 9. Compound Quantitation and Reporting Limits | |
|--|-------------|
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| All: Results detected above the MDL but below the reporting limit are estimated and qualified "J". Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of "J" qualified samples due to being detected below the reporting limit. | |

| 10. Duplicates | |
|---|--------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/No |
| Method 6020: The Zinc result from parent sample UFMW-04D-20171005 was qualified as estimated and assigned a "J" qualifier. | |

Validated by: Michael Wilson

Data Verification and Validation Summary
Data Validation Stage 2A

Project Name: NERT TASK M13* (*included in M12 DVSR)
 Project No.: 44016787
 No. of Samples: 5

SDG/Report No.: 440-193776-1
 Lab ID: Test America Irvine
 Matrix: Liquid

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | |
| 2. Chain-of-Custody | | X | No | |
| 3. Holding Times | | X | No | |
| 4. Blanks | X | | Yes | Parent samples UFMW-01I-20171006, UFMW-02D-20171006, UFMW-02I-20171006 and UFMW-03D-20171006 were qualified with a "J+". |
| 5. Surrogates/Monitoring Compounds | | X | No | |
| 6. Matrix Spike/Matrix Spike Duplicate | | X | No | |
| 7. Laboratory Control Samples | | X | No | |
| 8. Interference Check Samples | | X | No | |
| 9. Compound Quantitation and Reporting Limits | X | | Yes | All sample results below the reporting limit are "J" qualified. |
| 10. Duplicates | | X | No | |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

Cooler Temperatures: 1.8° and 5.1°

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| UFMW-01I-20171006 | 440-193776-1 | 10/06/2017 |
| UFMW-02I-20171006 | 440-193776-2 | 10/06/2017 |
| UFMW-02D-20171006 | 440-193776-3 | 10/06/2017 |
| UFMW-03I-20171006 | 440-193776-4 | 10/06/2017 |
| UFMW-03D-20171006 | 440-193776-5 | 10/06/2017 |

Data Verification and Validation Summary
Data Validation Stage 2A

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| | |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| | |

| | |
|--|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| <p>Method 6020: The Aluminum, Nickel and Chromium results from parent sample UFMW-01I-20171006 were qualified as estimated and assigned a “J+” qualifier. The Nickel result from parent sample UFMW-02D-20171006 was qualified as estimated and assigned a “J+” qualifier. The Aluminum and Nickel results from parent samples UFMW-02I-20171006 and UFMW-03D-20171006 were qualified as estimated and assigned a “J+” qualifier.</p> | |

| | |
|---|-------------|
| 5. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 6. Matrix Spike/Matrix Spike Duplicate | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-------------|
| 7. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |
| | |

| | |
|--|-----|
| 8. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? | Yes |
| | |

| | |
|--|-------------|
| 9. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? Were detection below the reporting limit? | Yes/Yes/Yes |
| | |

Data Verification and Validation Summary
Data Validation Stage 2A

All: Results detected above the MDL but below the reporting limit are estimated and qualified “J”. Please see Qualifier Summary Report and the Reporting Limit Outlier Report in the ADR Output Appendix G1 for a complete list of “J” qualified samples due to being detected below the reporting limit.

10. Duplicates

| | |
|---|---------|
| Were any duplicate pairs analyzed in this SDG? Were RPDs between parent sample and duplicates \leq lab limits or \leq 30% for field duplicates? | Yes/Yes |
|---|---------|

Validated by: Michael Wilson

Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.3°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| The matrix spikes or spike duplicates performed on unrelated samples failed recovery criteria for the perchlorate, chromium and nitrate analyses. In addition, perchlorate exceeded laboratory precision for the MS/MSD. Qualification of the sample data is not required. | |

| | |
|---|----|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 50 for soil field duplicates? | No |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 08/31/16

Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 3.1°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|---|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| The matrix spike or spike duplicate performed on unrelated samples exceeded recovery criteria for the chromium and perchlorate analyses. In addition, perchlorate exceeded laboratory precision for the MS/MSD. Qualification of the sample data is not required. | |

| | |
|---|---------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 50 for soil field duplicates? | Yes/Yes |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 08/31/16

Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.1°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| The equipment blank contained perchlorate at a concentration of 3.3 ug/L. The sample data did not require qualification. | |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| The spike analyses performed on unrelated samples failed recovery criteria for the chromium and perchlorate analyses. Qualification of the sample data is not required. | |

| | |
|--|----|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 08/31/16

Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 3.3°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |
| The hexavalent chromium spike and spike duplicate were analyzed out of the 24 hour holding time. Qualification of the sample data is not required. | |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| Chromium would have been estimated (J-) in UFIW-02D-20160803 due to low recovery in the MSD and estimated (J) for exceeding precision criterion between the spike and spike duplicate. However, the final qualifier applied to chromium was “J”. Recoveries of the perchlorate MS/MSD performed on UFIW-02D-20160803 were below limits. The parent sample concentration was >4x the amount spiked in the sample. Qualification of the sample data is not required. | |

| | |
|--|-------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 9/2/16

Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.1°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|-------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/Yes |
| The equipment blank contained perchlorate at a concentration of 2.6 ug/L and chromium at 0.0031 mg/L. The sample data did not require qualification. | |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| The matrix spike or spike duplicate performed on unrelated samples failed recovery criteria for the chromium and perchlorate analyses. Precision between the MS/MSD was above the laboratory limit for chromium. Qualification of the sample data is not required. | |

| | |
|--|----|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |
| All results detected above the MDL but below the RL are estimated and qualified “J”. | |

Validated by: Cecelia Minch 08/31/16

Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 4.3°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| The matrix spike duplicate and precision between the MS/MSD performed on an unrelated sample failed criteria for chromium. Qualification of the sample data is not required. | |

| | |
|--|----|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 08/31/16

Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|---|-------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperatures at receipt were 1.5°, 2.8°, 3.7°, 3.9° and 4.0°C. | |

| | |
|--|---------|
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| | |
|--|-----|
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | Yes |

| | |
|--|------------|
| 4. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| | |
|--|-------------|
| 5. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| | |
|--|------------|
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/No |
| The spike recoveries were below the laboratory limits for hexavalent chromium which was estimated (UJ) in sample UFIW-03S-20160804. | |

| | |
|--|-------|
| 7. Field Duplicate | |
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| | |
|---|---------|
| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 08/31/16

Data Verification and Validation Summary

Project Name: NERT 2016 TASK M13* (*included in M12 DVSR) Report No.: 440-154772-1
 Project No.: 194-87600008 Lab ID: Test America - Irvine
 No. of Samples: 4 Matrix: Aqueous

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|----------------------------|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | | X | No | None |
| 2. Chain-of-Custody (COC) | | X | No | None |
| 3. Holding Times (hexavalent chromium 24 hours; chromium 180 days; perchlorate 28 days) | | X | No | None |
| 4. Blanks (Method and/or Field QC) | | X | No | None |
| 5. Laboratory Control Samples | | X | No | None |
| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | | X | No | None |
| 7. Field Duplicate | | --- | --- | --- |
| 8. Reporting Limits (RLs) and Method Detection Limits (MDLs) | | X | No | None |
| Verification and Validation Label | | Stage_2A_Validation_Manual | | |
| Verification and Validation Label Code | | S2AVM | | |
| <p>Overall Assessment: Acceptable as qualified. Usability: Sample results qualified "J", estimated, are useable for limited purposes only. All other results are considered valid and useable for all purposes.</p> | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature |
|----------------------|---------------|----------------|--------------------|
| UFIW-01S-20160805 | 440-154772-1 | 08/05/16 | 5.7°C |
| UFIW-02S-20160805 | 440-154772-2 | 08/05/16 | 5.7°C |
| UFIW-04S-20160805 | 440-154772-3 | 08/05/16 | 5.7°C |
| UFIW-02S-20160805-FB | 440-154772-4 | 08/05/16 | 5.7°C |
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Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| 1. Sample Preservation, Handling, and Transport | |
|---|-------------|
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | Yes/Yes/Yes |
| Note: Cooler temperature at receipt was 5.7°C. | |

| 2. Chain-of-Custody (COC) | |
|--|---------|
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| 3. Holding Times | |
|--|-----|
| Were samples analyzed within acceptable holding times? | Yes |

| 4. Blanks | |
|--|------------|
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were analytes detected in any blanks? | Yes/Yes/No |

| 5. Laboratory Control Samples (LCS) | |
|--|-------------|
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/Yes |

| 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) | |
|--|-------------|
| Was a MS/MSD pair extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | Yes/Yes/Yes |

| 7. Field Duplicate | |
|---|-------|
| Were any duplicate pairs analyzed in this data set? Were RPDs between original sample and duplicate ≤ 30 for aqueous field duplicates? | No/NA |

| 8. Compound Method Detection Limits (MDLs) and Reporting Limits (RLs) | |
|---|---------|
| Were MDLs/RLs adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |

Validated by: Cecelia Minch 09/2/16

Appendix H.2
Validation Checklists
Stage 2B/4

Data Verification and Validation Summary

Project Name: NERT In-Situ Chromium TS
 Project No.: M12
 No. of Samples: 9

SDG/Report No.: 440-193441-1
 Lab ID: Test America – Irvine/Buffalo
 Matrix: Water (8), Water QC (1)

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|---|-----------|----|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | X | | Yes | Samples 2, 4, 5, and 9: Qualify TOC “J”. |
| 2. Chain-of-Custody | | X | No | None |
| 3. Holding Times | X | | Yes | Samples 4, 5: Qualify 8260B compounds “J” or “J-” for detects and “R” for non-detects. Samples 4, 5, and 9: Qualify methane “J-”. Samples 2, 4, 5, and 9: Qualify TOC “J”. |
| 4. Instrument Performance | | X | No | None |
| 5. Initial Calibration | | X | No | None |
| 6. Continuing Calibration Verification | | X | No | None |
| 7. Blanks | X | | No | None |
| 8. Surrogates/Monitoring Compounds | | X | No | None |
| 9. Matrix Spike/Matrix Spike Duplicate/MSI | X | | Yes | Sample 2: Qualify propionic acid “J+” and pyruvic acid “UJ”. Sample 4: Qualify perchlorate “J+”. |
| 10. Serial Dilution | | X | No | None |
| 11. Laboratory Control Samples | | X | No | None |
| 12. Interference Check Samples | X | | No | None |
| 13. Internal Standards | | X | No | None |
| 14. Duplicates | X | | No | None |
| 15. Compound Quantitation and Reporting Limits | | X | Yes | Qualify all results detected between the MDL and RL “J”. Samples 3,6,and 7: Qualify vanadium “UJ”. |
| 16. Data Package/EDD comparison (10%) | | X | No | None |

Verification and Validation Label

Stage_2B_Validation_Electronic_and_Manual

Verification and Validation Label Code

S2BVEM

Overall Assessment: Unless rejected, results are acceptable as qualified.

Usability: “R” qualified data are not useable. Sample results qualified as estimated are useable for limited purposes only. All other results are considered valid and useable for all purposes.

Revision to ADR results: None.

Data Verification and Validation Summary

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature(s) |
|---------------------|---------------|----------------|--|
| TRIP BLANK* | 440-193441-1 | 10/03/2016 | 1.1° C, 1.2° C, 2.0° C, 3.6° C, 3.7° C |
| CTMW-01D-20171003 | 440-193441-2 | 10/03/2016 | 1.1° C, 1.2° C, 2.0° C, 3.6° C, 3.7° C |
| CTMW-02D-20171003 | 440-193441-3 | 10/03/2016 | 1.1° C, 1.2° C, 2.0° C, 3.6° C, 3.7° C |
| CTMW-01S-20171003 | 440-193441-4 | 10/03/2016 | 1.1° C, 1.2° C, 2.0° C, 3.6° C, 3.7° C |
| CTMW-02S-20171003 | 440-193441-5 | 10/03/2016 | 1.1° C, 1.2° C, 2.0° C, 3.6° C, 3.7° C |
| CTMW-03D-20171003 | 440-193441-6 | 10/03/2016 | 1.1° C, 1.2° C, 2.0° C, 3.6° C, 3.7° C |
| CTMW-04D-20171003 | 440-193441-7 | 10/03/2016 | 1.1° C, 1.2° C, 2.0° C, 3.6° C, 3.7° C |
| CTMW-03S-20171003 | 440-193441-8 | 10/03/2016 | 1.1° C, 1.2° C, 2.0° C, 3.6° C, 3.7° C |
| CTMW-04S-20171003 | 440-193441-9 | 10/03/2016 | 1.1° C, 1.2° C, 2.0° C, 3.6° C, 3.7° C |

*Field QC. Validated to Stage 2A by ADR.

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| 1. Sample Preservation, Handling, and Transport | |
|---|-----------|
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | No/No/Yes |
| 8260B: Although the sample bottles had the correct preservative, several samples were not preserved to pH = 2. Preservation is not required by method. | |
| RSK-175: Although the sample bottles had the correct preservative, several samples were not preserved to pH = 2. Preservation is not required by method. | |
| SM5310: The following samples were received with pH>2: CTMW-01D-20171003, CTMW-01S-20171003, CTMW-02S-20171003, and CTMW-04S-20171003. The lab adjusted the samples to pH<2 prior to analysis. | |

| 2. Chain-of-Custody (COC) | |
|--|---------|
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |

| 3. Holding Times | |
|--|----|
| Were samples analyzed within acceptable holding times? | No |
| 8260B: CTMW-01S-20171003 and CTMW-02S-20171003 were analyzed outside of holding time for unpreserved samples. They were not preserved to pH <2. | |
| RSK-175: CTMW-01S-20171003, CTMW-02S-20171003, and CTMW-04S-20171003 were analyzed outside of holding time for unpreserved samples. They were not preserved to pH <2. | |
| SM5310: CTMW-01D-20171003, CTMW-01S-20171003, CTMW-02S-20171003, and CTMW-04S-20171003 were analyzed outside of holding time (4 hours) for unpreserved samples. They were not preserved to pH <2. | |

| 4. Instrument Performance | |
|--|-------------|
| Was BFB analyzed before and within 12 hours of sample analysis? Were mass assignments correct and normalized to m/z 95? Were ion abundance criteria met? | Yes/Yes/Yes |

| 5. Initial Calibration (ICAL) | |
|--|-------------|
| Were the correct number of standards analyzed to establish the calibration curve for each analyte? Were Percent Relative Standard Deviations (%RSDs) of the Response Factors (RFs) ≤ method or national functional guideline (NFG) requirements or Coefficient of Correlation or Coefficient of Determination ≥ method or NFG requirements? Were Relative Response Factors (RRFs) and average RRFs ≥ method or NFG requirements? | Yes/Yes/Yes |

Data Verification and Validation Summary

| | |
|---|-----------------|
| 6. Continuing Calibration Verification (CCV) | |
| Were CCVs analyzed at the beginning and end of sample analysis, if applicable? Were calibrations compared to the correct initial calibrations? Were Percent Differences (%D) ≤ method or NFG requirements? Did RRFs and average RRFs meet method or NFG requirements? | Yes/Yes/Yes/Yes |

| | |
|---|-----------------|
| 7. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were calibration blanks analyzed at appropriate intervals? Were analytes detected in any blanks? | Yes/Yes/Yes/Yes |
| E351.2: Total Kjeldahl Nitrogen was detected in two calibration blanks in batch 440-434215. Concentrations in the samples were >10x the amount in the blank or it was not detected. No qualification. | |
| SM2320: Alkalinity and bicarbonate were detected in MB 440-435573/2. Concentrations in the samples were >10x the amount in the blank. No qualification. | |

| | |
|---|-------------|
| 8. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |

| | |
|---|-----------|
| 9. Matrix Spike/Matrix Spike Duplicate/MSI | |
| Was a MS/MSD pair or MSI extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | No/Yes/No |
| No field readings or lithology were available to determine similarity of samples. Qualifiers, if applicable, were applied to parent samples only. | |
| See ADR output. | |

| | |
|--|---------|
| 10. Serial Dilution | |
| Were serial dilutions analyzed at appropriate intervals? For results > 50x the MDL, were %Ds within acceptable limits of the true value? | Yes/Yes |

| | |
|--|------------|
| 11. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/No |

| | |
|---|------------|
| 12. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? Were ICSA samples non-detect for analytes not in the solution? | Yes/Yes/No |
| 6010B: Manganese was detected in the ICSA. The absolute value of the concentration was above the MDL. The interferents' concentrations in the sample were several orders of magnitude less than the ICSA. No qualification will be applied. | |
| 6020: Chromium and manganese were detected in two ICSAs above the MDL. Copper and zinc were detected in another one. The interferents' concentrations in the sample were several orders of magnitude less than the ICSA or not detected. No qualification will be applied. | |

Data Verification and Validation Summary

| | |
|---|-------------|
| 13. Internal Standards (IS) | |
| Were ISs added to each sample in the run including calibrations, samples, and QC samples? Were area counts of the ISs for all samples within 50% and 200% of its response in the CCV? Was the Retention Time of the IS within ± 30 seconds from the RT of the IS in the associated CCV or mid-point standard from ICAL? | Yes/Yes/Yes |

| | |
|--|-------------|
| 14. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? For results $> 5x$ the RL, were RPDs between parent sample and duplicates \leq lab limits or $\leq 30\%$ for field duplicates? For REG/FD results $< 5x$ the RL, were differences between the two values $< RL$. | Yes/Yes/N/A |
| Notes: Lab analyzed duplicates from other work orders for general chemistry parameters. | |

| | |
|---|---------|
| 15. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |
| Reporting levels were elevated in several analyses. The samples were diluted because of color and odor. | |
| 6020: Vanadium results in CTMW-02D-20171003, CTMW-03D-20171003, and CTMW-04D-20171003 had a negative instrument reading with an absolute value greater than the reporting limit. | |

| | |
|--|---------|
| 16. Data Package/EDD comparison (10%) | |
| Were 10% of the data package results compared to the electronic data? Did results match? | Yes/Yes |

Validated by: Maureen McMyler 10/24/17 (revised 7/26/18)

Data Verification and Validation Summary

Project Name: NERT In-Situ Chromium TS
 Project No.: M12
 No. of Samples: 1

SDG/Report No.: 440-193508-1
 Lab ID: Test America – Irvine/Buffalo
 Matrix: Water (1)

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|-----------|---|------------------------|--|
| | Yes | No | Yes or No | |
| 1. Sample Preservation, Handling, and Transport | X | | Yes | CTMW-06S-20171004: Qualify TOC “J”. |
| 2. Chain-of-Custody | | X | No | None |
| 3. Holding Times | X | | Yes | CTMW-06S-20171004: Qualify 8260B compounds “J” or “J-” for detects and “R” for non-detects; Qualify methane “J-”. CTMW-06S-20171004: Qualify TOC “J”. |
| 4. Instrument Performance | | X | No | None |
| 5. Initial Calibration | X | | Yes | None |
| 6. Continuing Calibration Verification | X | | Yes | None |
| 7. Blanks | X | | No | None |
| 8. Surrogates/Monitoring Compounds | | X | No | None |
| 9. Matrix Spike/Matrix Spike Duplicate/MSI | X | | No | None |
| 10. Serial Dilution | | X | No | None |
| 11. Laboratory Control Samples | | X | No | None |
| 12. Interference Check Samples | X | | No | None |
| 13. Internal Standards | | X | No | None |
| 14. Duplicates | X | | No | None |
| 15. Compound Quantitation and Reporting Limits | | X | Yes | Qualify all results detected between the MDL and RL “J”. |
| 16. Data Package/EDD comparison (10%) | | X | No | None |
| Verification and Validation Label | | Stage_2B_Validation_Electronic_and_Manual | | |
| Verification and Validation Label Code | | S2BVEM | | |
| <p>Overall Assessment: Unless rejected, results are acceptable as qualified. Usability: “R” qualified data are not useable. Sample results qualified as estimated are useable for limited purposes only. All other results are considered valid and useable for all purposes. Revision to ADR results: MS. See below.</p> | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected | Cooler Temperature(s) |
|---------------------|---------------|----------------|-------------------------------|
| CTMW-06S-20171004 | 440-193508-1 | 10/04/2016 | 1.7° C, 2.1° C, 4.7° C 4.3° C |
| | | | |

Data Verification and Validation Summary

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| | |
|--|-----------------|
| 1. Sample Preservation, Handling, and Transport | |
| Were all samples preserved correctly? Were sample temperatures kept at 4°C (+ or – 2°C)? Were samples received in proper condition? | No/No/Yes |
| 8260B: Although the sample bottles had the correct preservative, CTMW-06S-20171004 was not preserved to pH = 2. Preservation is not required by method. | |
| RSK-175: Although the sample bottles had the correct preservative, CTMW-06S-20171004 was not preserved to pH = 2. Preservation is not required by method. | |
| SM5310: The following sample was received with pH>2: CTMW-06S-20171004. The lab adjusted the sample to pH<2 prior to analysis. | |
| 2. Chain-of-Custody (COC) | |
| Were samples recorded on the COCs? Were correct analyses performed on the samples? | Yes/Yes |
| 3. Holding Times | |
| Were samples analyzed within acceptable holding times? | No |
| 8260B: CTMW-06S-20171004 was analyzed outside of holding time for unpreserved samples. It was not preserved to pH <2. | |
| RSK-175: CTMW-06S-20171004 was analyzed outside of holding time for unpreserved samples. It was not preserved to pH <2. | |
| SM5310: CTMW-06S-20171004 was analyzed outside of holding time for unpreserved samples. It was not preserved to pH <2. | |
| 4. Instrument Performance | |
| Was BFB analyzed before and within 12 hours of sample analysis? Were mass assignments correct and normalized to m/z 95? Were ion abundance criteria met? | Yes/Yes/Yes |
| 5. Initial Calibration (ICAL) | |
| Were the correct number of standards analyzed to establish the calibration curve for each analyte? Were Percent Relative Standard Deviations (%RSDs) of the Response Factors (RFs) ≤ method or national functional guideline (NFG) requirements or Coefficient of Correlation or Coefficient of Determination ≥ method or NFG requirements? Were Relative Response Factors (RRFs) and average RRFs ≥ method or NFG requirements? | Yes/Yes/No |
| 8260B: ICAL 17676: 1,1,2-Trichloroethane RRF = 0.1809. NFG requires ≥ 0.200. | |
| 6. Continuing Calibration Verification (CCV) | |
| Were CCVs analyzed at the beginning and end of sample analysis, if applicable? Were calibrations compared to the correct initial calibrations? Were Percent Differences (%D) ≤ method or NFG requirements? Did RRFs and average RRFs meet method or NFG requirements? | Yes/Yes/Yes/No |
| 8260B: CCVIS 440-435586/2: 1,1,2-Trichloroethane RRF = 0.1840. NFG requires ≥ 0.200. | |
| 7. Blanks | |
| Does data package include a summary of blank results? Was a method blank extracted and/or analyzed for each batch? Were calibration blanks analyzed at appropriate intervals? Were analytes detected in any blanks? | Yes/Yes/Yes/Yes |
| SM2320: Alkalinity and bicarbonate were detected in MB 440-435573/2. Concentrations in the samples were >10x the amount in the blank. No qualification. | |
| 8. Surrogates/Monitoring Compounds | |
| Were samples spiked with the correct surrogate compounds? Were surrogate recoveries reported correctly on data forms? Were recoveries within laboratory limits? | Yes/Yes/Yes |

Data Verification and Validation Summary

| | |
|---|-----------|
| 9. Matrix Spike/Matrix Spike Duplicate/MSI | |
| Was a MS/MSD pair or MSI extracted and/or analyzed with each batch? Were recoveries/RPDs reported correctly on data forms? Were recoveries/RPDs within laboratory established limits? | No/Yes/No |
| No field readings or lithology were available to determine similarity of samples. Qualifiers, if applicable, were applied to parent samples only. | |
| 6010B: Iron and manganese recoveries were outside acceptable limits in the MS/MSD of CTMW-06S-20171004. Manganese recovery was low in the post-digestion spike also. The concentrations in the parent sample were >4x the amount spiked, so recoveries do not apply. No qualification is needed. | |

| | |
|--|---------|
| 10. Serial Dilution | |
| Were serial dilutions analyzed at appropriate intervals? For results > 50x the MDL, were %Ds within acceptable limits of the true value? | Yes/Yes |

| | |
|--|------------|
| 11. Laboratory Control Samples (LCS) | |
| Was a LCS analyzed with each analytical batch? Were LCS recoveries reported correctly on data forms? Were LCS recoveries within laboratory established limits? | Yes/Yes/No |

| | |
|--|------------|
| 12. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? Were ICSA samples non-detect for analytes not in the solution? | Yes/Yes/No |
| 6020: Cadmium, chromium, and manganese were detected in the ICSA above the MDL. The interferents' concentrations in the sample were several orders of magnitude less than the ICSA or not detected. No qualification will be applied. | |

| | |
|---|-------------|
| 13. Internal Standards (IS) | |
| Were ISs added to each sample in the run including calibrations, samples, and QC samples? Were area counts of the ISs for all samples within 50% and 200% of its response in the CCV? Was the Retention Time of the IS within ± 30 seconds from the RT of the IS in the associated CCV or mid-point standard from ICAL? | Yes/Yes/Yes |

| | |
|---|-------------|
| 14. Duplicates | |
| Were any duplicate pairs analyzed in this SDG? For results > 5x the RL, were RPDs between parent sample and duplicates \leq lab limits or $\leq 30\%$ for field duplicates? For REG/FD results < 5x the RL, were differences between the two values < RL. | Yes/Yes/N/A |
| Notes: Lab analyzed duplicates from other work orders for general chemistry parameters. | |

| | |
|--|---------|
| 15. Compound Quantitation and Reporting Limits | |
| Were quantitation limits (RLs) adjusted to reflect dilutions, cleanup, and other factors? If applicable, were reporting limit check recoveries within acceptable limits? | Yes/Yes |
| Reporting levels were elevated in several analyses. The samples were diluted because of matrix, color, and odor. | |
| All results detected between the MDL and RL are considered estimated and will be qualified "J". | |

| | |
|--|---------|
| 16. Data Package/EDD comparison (10%) | |
| Were 10% of the data package results compared to the electronic data? Did results match? | Yes/Yes |

Validated by: Maureen McMyler 11/06/17 (Revised 7/26/18)

Data Verification and Validation Summary
Validation Stage 2B

Project Name: NERT In-Situ Cr Treatability SDG/Report No.: 440-193514-1
 Project No.: M12 Lab ID: TestAmerica – Irvine and Buffalo
 No. of Samples: 4 Matrix: Water

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|----------------------------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Instrument Performance | | X | No | None |
| 2. Initial Calibration | | X | No | None |
| 3. Continuing Calibration Verification | X | | No | None |
| 4. Blanks (Calibration only) | | X | No | None |
| 5. Matrix Spike Insoluble | | X | N/A | None |
| 6. Interference Check Samples | | X | No | None |
| 7. Internal Standards | | X | No | None |
| 8. Reporting Limit Check Samples | | X | No | None |
| Verification and Validation Label | Stage_2B_Validation_Manual | | | |
| Verification and Validation Label Code | S2BVM | | | |
| Overall Assessment: Acceptable for the elements reviewed. | | | | |
| . | | | | |

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected |
|---|---------------|----------------|
| *TRIP BLANK | 440-193514-1 | 10/04/2017 |
| CTMW-06D-20171004 | 440-193514-2 | 10/04/2017 |
| CTMW-06D-20171004-FD | 440-193514-3 | 10/04/2017 |
| CTMW-05S-20171004 | 440-193514-5 | 10/04/2017 |
| | | |
| | | |
| | | |
| *Field QC sample. Validated by ADR to 2A. | | |

Data Verification and Validation Summary
Validation Stage 2B

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| 1. Instrument Performance | |
|--|-------------|
| Was BFB analyzed before and within 12 hours of sample analysis? Were mass assignments correct and normalized to m/z 95? Were ion abundance criteria met? | Yes/Yes/Yes |
| Methods RSK-175, ICP, ICP/MS, 300.0, 300.1B, 7199 and 314.0: Gas Chromatograph and/or Ion chromatograph(s) performance acceptable? | Yes |
| Wet Chemistry Methods: Instrument performance acceptable? | Yes |

| 2. Initial Calibration (ICAL) | |
|---|-------------|
| Were the correct number of standards analyzed to establish the calibration curve for each analyte? Were Percent Relative Standard Deviations (%RSDs) of the Response Factors (RFs) \leq method or national functional guideline (NFG) requirements or Coefficient of Correlation or Coefficient of Determination \geq method or NFG requirements? Were Relative Response Factors (RRFs) and average RRFs \geq method or NFG requirements? | Yes/Yes/Yes |

| 3. Continuing Calibration Verification (CCV) | |
|--|--------------------|
| Were CCVs analyzed at the beginning and end of sample analysis, if applicable? Were calibrations compared to the correct initial calibrations? Were Percent Differences (%D) \leq method or NFG requirements? Did RRFs and average RRFs meet method or NFG requirements? | Yes/Yes Yes/Yes |
| 8260B: CCV 440-435476/2 indicated recovery outside of criteria (high) for acrolein. Since acrolein is not a target compound for this project, no additional qualification was required. | |

| 4. Calibration Blanks | |
|--|------------|
| Does data package include a summary of blank results? Were calibration blanks analyzed at appropriate intervals? Were analytes detected in any blanks? | Yes/Yes/No |

| 5. Matrix Spike Insoluble (MSI) | |
|--|----------|
| Was a MSI analyzed with each analytical batch? Were MSI recoveries reported on data forms? Were MSI recoveries within laboratory established limits? | NA/NA/NA |

| 6. Interference Check Sample (ICS) | |
|---|-------------|
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? Were ICSA samples non-detect for analytes not in the solution? | Yes/Yes/Yes |

| 7. Internal Standards (IS) | |
|---|-------------|
| Were ISs added to each sample in the run including calibrations, samples, and QC samples? Were area counts of the ISs for all samples within 50% and 200% of its response in the CCV? Was the Retention Time of the IS within ± 30 seconds from the RT of the IS in the associated CCV or mid-point standard from ICAL? | Yes/Yes/Yes |

| 8. Reporting Limit Check Samples | |
|---|-----|
| Were the reporting limit check (CRQL or MRL) recoveries within acceptable limits? | Yes |

Validated by: Paul Smith 10/26/2017

Data Verification and Validation Summary
Validation Stage 4

Project Name: NERT IN-Situ Cr Treatability

SDG/Report No.: 440-193514-1

Project No.: M12

Lab ID: TestAmerica-Irvine and Buffalo

No. of Samples: 1

Matrix: Water

| Area Reviewed | Anomalies | | Qualification Required | Action Required |
|--|---------------------------|----|------------------------|-----------------|
| | Yes | No | Yes or No | |
| 1. Instrument Performance | | X | No | None |
| 2. Initial Calibration | | X | No | None |
| 3. Continuing Calibration Verification | X | | No | None |
| 4. Blanks (Calibration only) | | X | No | None |
| 5. Matrix Spike Insoluble | | X | NA | None |
| 6. Interference Check Samples | | X | No | None |
| 7. Internal Standards | | X | No | None |
| 8. Reporting Limit Check Samples | | X | No | None |
| 9. Instrument Response Data | | X | No | None |
| 10. Analyte/Internal Standard | | X | No | None |
| 11. Initial Calibration Curves | | X | No | None |
| 12. Instrument Response Requirements | | X | No | None |
| 13. Recalculation of CCBs and CCVs | | X | No | None |
| 14. Recalculation of Instrument Tuning | | X | No | None |
| 15. Instrument Performance Check Recalculation | | X | No | None |
| 16. Retention Times Windows Verification | | X | No | None |
| 17. Reported Results Recalculation/Verification | | X | No | None |
| 18. QC Results Recalculation/Verification | | X | No | None |
| 19. Instrument Output Verification | | X | No | None |
| 20. Non-Detected Results Confirmation | | X | No | None |
| Verification and Validation Label | Stage_4_Validation_Manual | | | |
| Verification and Validation Label Code | S4VM | | | |
| Overall Assessment: Acceptable as qualified. | | | | |
| Usability: Stage 2B and 4 Verification/Validation resulted in total usability without qualification for all data points. All data are considered valid and useable for intended purposes. | | | | |

Data Verification and Validation Summary
Validation Stage 4

Sample Information:

| Field Sample Number | Lab Sample ID | Date Collected |
|---------------------|---------------|----------------|
| | | |
| CTMW-05D-20171004 | 440-193514-4 | 10/04/2017 |
| | | |
| | | |
| | | |
| | | |

Data Verification and Validation Summary
Validation Stage 4

The following section is intended to specify areas evaluated and issues encountered. Only applicable methods are listed.

| 1. Instrument Performance | |
|--|--------------------|
| Was BFB analyzed before and within 12 hours of sample analysis? Were mass assignments correct and normalized to m/z 95? Were ion abundance criteria met? | Yes/Yes/Yes |
| Methods RSK-175, ICP, ICP/MS, 300.0, 300.1B, 7199 and 314.0: Gas Chromatograph and/or Ion chromatograph(s) performance acceptable? | Yes |
| Wet Chemistry Methods: Instrument performance acceptable? | Yes |
| 2. Initial Calibration (ICAL) | |
| Were the correct number of standards analyzed to establish the calibration curve for each analyte? Were Percent Relative Standard Deviations (%RSDs) of the Response Factors (RFs) \leq method or national functional guideline (NFG) requirements or Coefficient of Correlation or Coefficient of Determination \geq method or NFG requirements? Were Relative Response Factors (RRFs) and average RRFs \geq method or NFG requirements? | Yes/Yes/Yes |
| 3. Continuing Calibration Verification (CCV) | |
| Were CCVs analyzed at the beginning and end of sample analysis, if applicable? Were calibrations compared to the correct initial calibrations? Were Percent Differences (%D) \leq method or NFG requirements? Did RRFs and average RRFs meet method or NFG requirements? | Yes/Yes Yes/Yes |
| 8260B: CCV 440-435476/2 indicated recovery outside of control criteria (high) for the VOC – acrolein. Since acrolein is not a target VOC for this project, no additional qualification was required. | |
| 4. Calibration Blanks | |
| Does data package include a summary of blank results? Were calibration blanks analyzed at appropriate intervals? Were analytes detected in any blanks? | Yes/Yes/No |
| 5. Matrix Spike Insoluble (MSI) | |
| Was a MSI analyzed with each analytical batch? Were MSI recoveries reported on data forms? Were MSI recoveries within laboratory established limits? | NA |
| 6. Interference Check Sample (ICS) | |
| Were interference check samples (ICS) analyzed at appropriate intervals? Were ICS recoveries within acceptable limits of the true value? Were ICOSA samples non-detect for analytes not in the solution? | Yes/Yes/Yes |
| 7. Internal Standards (IS) | |
| Were ISs added to each sample in the run including calibrations, samples, and QC samples? Were area counts of the ISs for all samples within 50% and 200% of its response in the CCV? Was the Retention Time of the IS within ± 30 seconds from the RT of the IS in the associated CCV or mid-point standard from ICAL? | Yes/Yes/Yes |
| 8. Reporting Limit Check Samples | |
| Were the reporting limit check (CRQL or MRL) recoveries within acceptable limits? | Yes |
| 9. Instrument Response Data | |
| Were instrument response data (GC Peak Areas, ICP corrected intensities) reported for requested analytes, surrogates, and internal standards for field samples, matrix spike/matrix spike duplicates, LCS, Method Blanks, Calibration data and instrument QC checks? | Yes |
| 10. Analyte/Internal Standard | |
| Are the reported analyte instrument responses associated with the appropriate internal standards for each analyte(s) (for methods using internal standard for calibration)? | Yes |

Data Verification and Validation Summary
Validation Stage 4

| | |
|--|-------------|
| 11. Initial Calibration Curves | |
| Is the fit and appropriateness of the initial calibration curves accurate? Were the calibration curves checked with recalculation of the initial calibration curve for each analyte/parameter from the instrument responses? | Yes/Yes |
| 12. Instrument Response Requirements | |
| Were the minimum instrument response requirements for each requested analyte/parameter maintained for the requested testing analytes/parameters? | Yes |
| 13. Recalculation of CCBs and CCVs | |
| Were the opening and closing CCB and CCV responses from the peak data recalculated for verification of accuracy? Were the responses accurate as reported? | Yes/Yes |
| 14. Recalculation and Verification of Instrument Tuning | |
| Were the percent ratios for the associated instrument tunes recalculated? Were the recalculated percent ratios accurate? | Yes/Yes |
| 15. Recalculation of Instrument Performance Checks | |
| Were the Instrument Performance Check (instrument blanks, interference checks) responses recalculated? Were the recalculated responses accurate? | Yes/Yes |
| 16. Retention Time Windows Verification | |
| Were the retention time windows (for chromatographic methods) recalculated for determination of accuracy and compliance? Were the recalculated values consistent with the reported values? Were the recalculated values compliant with the method(s) requirements? | Yes/Yes/Yes |
| 17. Recalculation of Reported Results and Evaluation | |
| Were the reported results for each method/parameter/analyte recalculated from the instrument response? Were the recalculated values consistent with the reported values? | Yes/Yes |
| 18. Recalculation of Associated Quality Control Results and Evaluation | |
| Were the associated method quality control results (surrogate recoveries, internal standard area recoveries, LCS recoveries, duplicate analyses, matrix spike/matrix spike duplicate recoveries, (serial dilutions/post-digestion spikes/MSA, as required), standard reference materials) recalculated from instrument responses? Were the recalculated results consistent with the reported values? | Yes/Yes |
| 19. Instrument Output Verification | |
| Are all required instrument outputs (chromatograms, mass spectra, atomic emission spectra, instrument background corrections, interference corrections) for the evaluation of sample and instrument performance included in the data package? Were the instrument output data consistent with the sample results for correct identification and quantitation of analytes? | Yes/Yes/Yes |
| 20. Confirmation of Non-Detect Sample Results | |
| Were the instrument outputs evaluated to confirm non-detected analyte concentrations? | Yes |

Validated by: Paul Smith 10/27/2017