Data Validation Summary Report, Revision 1
January to June 2013
Annual Remedial Performance Sampling
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

Prepared for

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LIST OF ACRONYMS AND ABBREVIATIONS

DQO Data Quality Objectives

DUP Duplicate

DVSR Data Validation Summary Report ICV Initial Calibration Verification

LCS/LCSD Laboratory Control Sample / Laboratory Control Sample Duplicate

LDC Laboratory Data Consultants, Inc.
MS/MSD Matrix Spike / Matrix Spike Duplicate

PARCC Precision, Accuracy, Representativeness, Comparability, Completeness

PQL Practical Quantitation Limit

Quality Assurance / Quality Control QA/QC QAPP Quality Assurance Project Plan Relative Percent Difference RPD Sample Delivery Group SDG SQL Sample Quantitation Limit ug/L Micrograms per Liter Micrograms per Kilogram ug/Kg mg/L Milligram per Liter Milligram per Kilogram mg/Kg

USEPA United States Environmental Protection Agency

%D Percent Difference %R Percent Recovery

1.0 INTRODUCTION

This data validation summary report (DVSR) has been prepared by Laboratory Data Consultants, Inc. (LDC) to assess the validity and usability of laboratory analytical data from the Annual Remedial Performance Sampling conducted at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada. The assessment was performed by ENVIRON as a part of the *Revised Phase B Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada* dated May 2009 and included the collection and analyses of 576 environmental and quality control (QC) samples. The analyses were performed by the following methods:

Chromium by EPA SW 846 Method 6010 and EPA Method 200.7

Wet Chemistry:

Hexavalent Chromium by EPA SW 846 Method 7196 and EPA Method 218.6 Perchlorate by EPA Method 314.0 Total Dissolved Solids by Standard Method 2540C and EPA Method 160.1

Laboratory analytical services were provided by Eurofins and TestAmerica, Inc.. The samples were grouped into sample delivery groups (SDGs). The water samples are associated with QA/QC samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, and matrix. All shaded samples in Table I were reviewed under Stage 4 validation guidelines.

The laboratory analytical data were validated in accordance with procedures described in the Nevada Division of Environmental Protection (NDEP) Data Verification and Validation Requirements - Supplement established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, April 13, 2009. Consistent with the NDEP requirements, approximately ninety percent of the analytical data (520 of the 576 samples) were validated according to Stage 2A data validation procedures and ten percent of the analytical data (59 of the 576 samples) were validated according to Stage 4 data validation procedures. The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents: Basic Remediation Company (BRC) Standard Operating Procedures (SOP) 40 Data Review/Validation, Revision 1, July 2007; Revised Phase B Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada (QAPP), Revision, May 2009; the Nevada Department of Environmental Protection (NDEP) Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas, January 5 2012; Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004; 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.

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

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

Precision and Accuracy of Environmental Data

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

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: equipment blanks, field blanks, field duplicates, method blanks, laboratory control samples and laboratory control sample duplicates (LCS/LCSDs), laboratory duplicates (DUP), and matrix spike/matrix spike duplicates (MS/MSDs).

Before conducting the PARCC evaluation, the analytical data were validated according to the BRC SOP-40 (July 2007), QAPP (May 2009), Functional Guidelines (USEPA 2004), and EPA SW 846 Test Methods. Samples not meeting the acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

- J- <u>Estimated</u> The associated numerical value is an estimated quantity with a negative bias. The analyte was detected but the reported value may not be accurate or precise.
- J+ <u>Estimated</u> The associated numerical value is an estimated quantity with a positive bias. The analyte was detected but the reported value may not be accurate or precise.
- J <u>Estimated</u> The associated numerical value is an estimated quantity. It is not possible to assess the direction of the potential bias. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.
- R <u>Rejected</u> The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte. The "R" designation is also applied to yield only one complete set of data for a given sample and eliminate redundant data.
- U Nondetected Analyses were performed for the compound or analyte, but it was not detected. The "U" designation is also applied to suspected blank contamination. The "U" flag is used to qualify any result that is detected in an environmental sample and associated blank at less than the PQL.
- UJ <u>Estimated/Nondetected</u> Analyses were performed for the compound or analyte, but it was not detected and the sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, or other spike recovery.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

A Indicates the finding is based upon technical validation criteria.

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

The hierarchy of flags is listed below:

R > J The R flag will always take precedence over the J qualifier.

J > J+ or J- A non-biased (J) flag will always supersede biased (J+ or J-) flags since

it is not possible to assess the direction of the potential bias.

J = J + plus J- Adding biased (J+, J-) flags with opposite signs will result in a non-

biased flag (J).

UJ = U plus J or J+ or J- The UJ flag is used when a non-detected (U) flag is added to a biased

(J+ or J-) or non-biased flag (J).

Table II lists the reason codes used. Reason codes explain why flags have been applied and identify possible limitations of data use. Reason codes are cumulative except when one of the flags is R then only the reason code associated to the R flag will be used.

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

Once the data are reviewed and qualified according to the BRC SOP-40, QAPP, functional guidelines, and EPA Test Methods, the data set is then evaluated using PARCC criteria. PARCC criteria provide an evaluation of overall data usability. The following is a discussion of PARCC criteria as related to the project DQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from percent recovery data. Precision is expressed as the relative percent difference (RPD):

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

where:

D1 = reported concentration for the sample

D2 = reported concentration for the duplicate

Precision is primarily assessed by calculating an RPD from the 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 result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to an MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. The LCS measures laboratory efficiency in recovering target analytes from either an aqueous matrix in the absence of matrix interferences.

One primary sample is analyzed and accompanied by an unspiked laboratory duplicate. The data reviewer compares the reported results of the primary analysis and the laboratory duplicate, then calculates RPDs, which are used to assess laboratory precision.

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

An RPD outside the numerical QC limit in either 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. Thus, 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, and poor instrument stability. In some duplicate pairs, results maybe reported in either the primary or duplicate samples at levels below the practical quantitation limit (PQL) or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and LCSD. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

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

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

where:

A = measured concentration in the spiked sample

B = measured concentration of the spike compound in the unspiked sample

C = concentration of the spike

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

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

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.

Initial and continuing calibration blanks consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy. Initial and continuing calibration blanks were only reviewed for samples on which Stage 4 review was performed.

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

Field blanks consist of analyte-free source water stored at the sample collection site. The water is collected from each source water used during each sampling event. Field blanks were collected and analyzed for all target analytes.

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 will be specific for each method and matrix analyzed. Holding time exceedance can cause loss of sample constituents due to biodegradation, precipitation, volatization, and chemical degradation. In accordance with EPA guidance (USEPA 2004), sample results for analyses that were performed after the method holding time but less than two times the method holding time were qualified as estimated (J- or UJ) and sample results for analyses that were performed after two times the method holding time were qualified as rejected (R).

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

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

Percent completeness is calculated using the following equation:

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

where:

%C = percent completeness

T = total number of sample results

R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the QAPP, with the number determined above.

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations. This capability is established during the planning phase to meet the DQOs. It is important that calibration requirements, detection limits (DLs), and PQLs presented in the QAPP are achieved and that target analytes can be detected at concentrations necessary to support the DQOs. In addition, sample results are compared to method blank and field blank results to identify potential effects of laboratory background and field procedures on sensitivity.

The following sections present a review of QC data for each analytical method.

2.0 CHROMIUM

A total of 364 water samples were analyzed for chromium by EPA SW 846 Method 6010 and EPA Method 200.7. All metal data were assessed to be valid since none of the 364 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

2.1 Precision and Accuracy

2.1.1 Instrument Calibration

Initial and continuing calibration verification results provide a means of evaluating accuracy within a particular SDG. Correlation coefficient (r) and percent recovery (%R) are the two major parameters used to measure the effectiveness of instrument calibration. The correlation coefficient indicates the linearity of the calibration curve. %R is used to verify the ongoing calibration acceptability of the analytical system.

The most critical of the two calibration parameters, r, has the potential to affect data accuracy across an SDG when it is outside the acceptable QC limits. %R exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected analytes.

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

2.1.2 MS/MSD Samples

All MS/MSD %Rs and RPDs met acceptance criteria as stated in the QAPP.

2.1.3 LCS/LCSD Samples

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

2.1.4 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs or difference in instances the results were less than five times the reporting limit for the compounds. The field duplicate RPDs or differences were within the acceptance criteria. The field duplicate RPDs or differences are presented in detail in Attachment A, Section XIV.

2.1.5 ICP Interference Check Sample

All ICP interference check %Rs met acceptance criteria as stated in the QAPP for the Stage 4 samples.

2.1.6 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

2.2 Representativeness

2.2.1 Sample Preservation and Holding Times

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

2.2.2 Blanks

Method blanks, initial and continuing calibration blanks, equipment blanks, and field blanks were analyzed to evaluate representativeness. The concentration for an individual target compound in any of the types of QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

Results Below the PQL If a sample result and blank contaminant value were less than the PQL, the sample result was amended as estimated (J) at the concentration reported in the sample results.

Results Above the PQL If a sample result and blank contaminant value were greater than the PQL and less than 10 times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the concentration reported in the sample results.

<u>No Action</u> If blank contaminant values were less than the PQL and associated sample results were greater than the PQL, or if blank contaminant values were greater than the PQL and associated sample results were greater than 10 times the blank contaminant value, the result was not amended.

2.2.2.1 Method and Calibration Blanks

No contaminants were detected in the method or calibration blanks for this analysis.

2.2.2.2 Equipment and Field Blanks

No data were qualified due to contaminants detected in the equipment blanks for this analysis.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the Sample Quantitation Limits (SQLs) attained were at or below the PQLs. Methods 6010 and 200.7 both utilize multi-elemental determinations by inductively coupled plasma-atomic emission spectrometry using simultaneous optical systems and axial or radial viewing of the plasma, the comparability of the metals data is regarded as acceptable.

2.4 Completeness

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

2.5 Sensitivity

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

3.0 WET CHEMISTRY

A total of 26 water samples were analyzed for hexavalent chromium by EPA SW 846 Method 7196 and EPA Method 218.6; 574 water samples were analyzed for perchlorate by EPA Method 314.0; and 575 water samples were analyzed for total dissolved solids by Standard Method 2540C and EPA Method 160.1. All wet chemistry data were assessed to be valid with the exception of three of the 1,175 total results which were rejected based on holding time exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

3.1 Precision and Accuracy

3.1.1 Instrument Calibration

As previously discussed in Section 2.1.1, initial and continuing calibration results provide a means of evaluating accuracy.

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

3.1.2 MS/MSD Samples

All MS/MSD %Rs and RPDs met the acceptance criteria as stated in the QAPP.

3.1.3 Duplicate (DUP) Samples

All DUP RPDs met the acceptance criteria as stated in the QAPP.

3.1.4 LCS/LCSD Samples

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

3.1.5 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs or difference in instances the results were less than five times the reporting limit for the compounds. Two perchlorate results were qualified as detected estimated (J) due to RPD outside of acceptance criteria in field duplicate pair M-23 and VD-6. The details regarding the qualification of results are presented in Attachment B, Section X.

3.1.6 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

3.2 Representativeness

3.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All water samples met the 28-day analysis holding time criteria for perchlorate.

Due to a severe holding time criteria exceedance, the hexavalent chromium results for samples EB-1 (sampled on 2/5/13), EB-2 (sampled on 2/6/13), and M-37 (sampled on 2/6/13) were qualified as rejected (R). Additionally, 13 results for hexavalent chromium and total dissolved solids were qualified as detected estimated (J-) or non-detected estimated (UJ). The analysis holding time criteria for water samples is 24 hours for hexavalent chromium and 7 days for total dissolved solids. The details regarding the qualification of results are presented in Attachment B, Section I.

3.2.2 Blanks

As previously discussed in Section 2.2.2, method blanks, initial and calibration blanks, equipment blanks, and field blanks were analyzed to evaluate representativeness.

3.2.2.1 Method and Calibration Blanks

No contaminants were detected in the method or calibration blanks for this analysis.

3.2.2.2 Equipment and Field Blanks

The perchlorate results in samples M-153 (sampled on 5/23/13), TR-8 (sampled on 5/23/13), and TR-9 (sampled on 5/23/13) were qualified as detected estimated (J+) due to contaminants detected in the equipment blanks. The details regarding the qualification of results are presented in Attachment B, Section IV.

3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Methods 160.1 and 2540C both utilize a well-mixed sample filtered through a glass fiber filter and the residue retained on the filter is dried to constant weight at 103-105°C, the comparability of the total dissolved solids data is regarded as acceptable.

3.4 Completeness

The completeness level attained for wet chemistry field samples was 99.7 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.5 Sensitivity

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

4.0 VARIANCES IN ANALYTICAL PERFORMANCE

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

5.0 SUMMARY OF PARCC CRITERIA

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

5.1 Precision and Accuracy

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

All calibrations were performed as required and met the acceptance criteria. All surrogate, MS/MSD, DUP, LCS/LCSD, and field duplicate percent recoveries, RPDs, and difference met acceptance criteria. All ICP interference check sample %Rs met acceptance criteria.

5.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable after integration of result qualification.

5.3 Comparability

Sampling frequency requirements were met in obtaining necessary equipment blanks, field blanks and field duplicates. The laboratory used standard analytical methods for the analyses. The analytical results were reported in correct standard units. Sample preservation, and sample integrity criteria were met. Holding times were within QC criteria with the exceptions noted in Section 3.2.1. The overall comparability is considered acceptable.

5.4 Completeness

Of the 1,531 total analytes reported, three of the sample results were rejected. The completeness for the SDGs is as follows:

| Parameter | Total Analytes | No. of Rejects | % Completeness |
|---------------|----------------|----------------|----------------|
| Metals | 362 | 0 | 100 |
| Wet Chemistry | 1,169 | 3 | 99.7 |
| Total | 1,531 | 3 | 99.8 |

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

5.5 Sensitivity

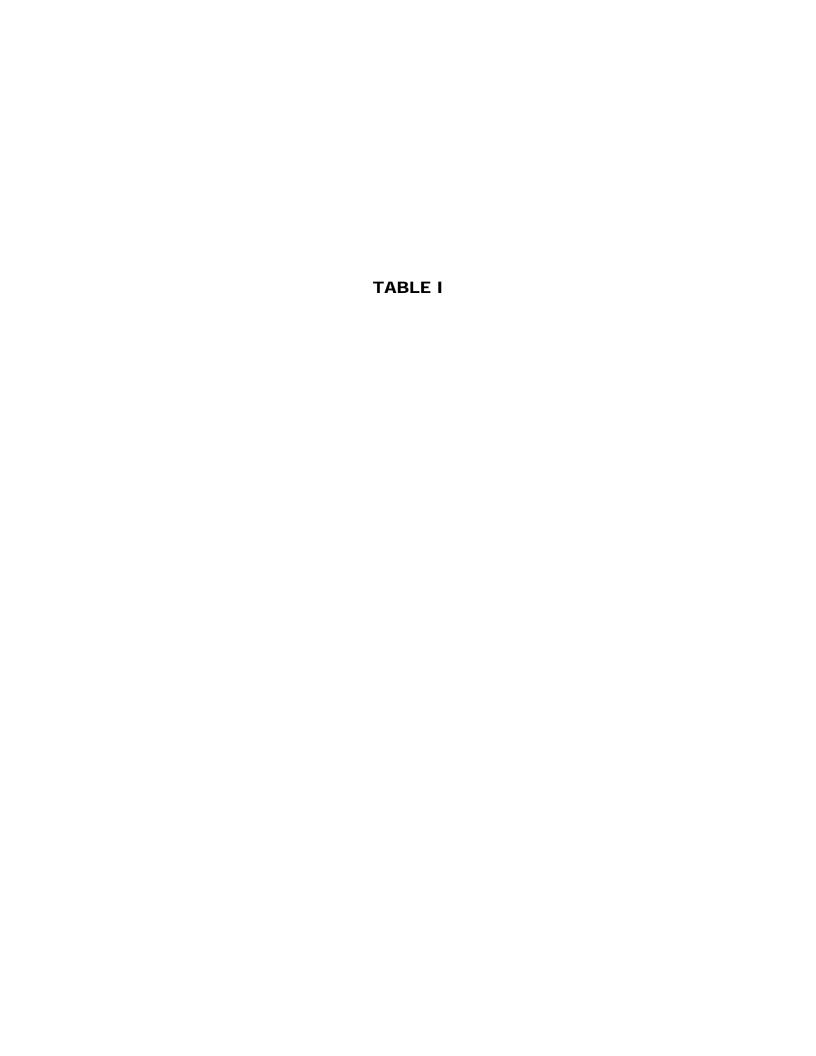
Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations and PQLs met the project requirements and low level contamination in the method blanks, equipment blanks, field blanks, and trip blanks did not affect sensitivity.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the water sample laboratory analytical results generated during the Annual Remedial Performance Sampling at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada established that the overall project requirements and completeness levels were met. The sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2A and Stage 4 data validation all other results are considered valid and usable for all purposes.

7.0 REFERENCES

- NDEP, 2009. Data Verification and Validation Requirements Supplement established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada. April 13.
- NDEP 2012. Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas. January 5.
- Basic Remediation Company (BRC), 2009. Standard Operating Procedures, SOP-40 Data Review/Validation. Revision 4. May 2009.
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- _____.1983. EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Cincinnati, Ohio. March 1983.
- _____.1996. EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV. February 2007.
- (Eaton et al., 1998) *Standard Method for the Examination of Water and Wastewater* (20th ed.). Washington, DC: American Public Health Association.



| SDG#: 420318 | | | | V. | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023A |
|---------------------|------------------------|----------|---------|-------------------|--------------|--------------------------|--------------------------|------|------|--|------|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Anal | ytical Me | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | |
| ART-1 | 201301050068 | water | | 01/03/13 | X | X | X | | | | | | |
| ART-2 | 201301050069 | water | | 01/03/13 | X | X | X | | | | | | |
| ART-3 | 201301050070 | water | | 01/03/13 | X | X | X | | | | | | |
| ART-4 | 201301050071 | water | | 01/03/13 | X | X | X | | | | | | |
| ART-6 | 201301050072 | water | | 01/03/13 | X | X | X | | | | | | |
| ART-7 | 201301050073 | water | | 01/03/13 | X | X | X | | | | | | |
| ART-8 | 201301050074 | water | | 01/03/13 | X | X | X | | | | | | |
| PC-99R2/R3 | 201301050075 | water | | 01/03/13 | X | X | X | | | | | | |
| PC-115R | 201301050076 | water | | 01/03/13 | X | X | X | | | | | | |
| PC-116R | 201301050077 | water | | 01/03/13 | X | X | X | | | | | | |
| PC-117 | 201301050079 | water | | 01/03/13 | X | X | X | | | | | | |
| PC-118 | 201301050080 | water | | 01/03/13 | X | X | X | | | | | | |
| PC-119 | 201301050081 | water | | 01/03/13 | X | X | X | | | | | | |
| PC-120 | 201301050082 | water | | 01/03/13 | X | X | X | | | | | | |
| PC-121 | 201301050083 | water | | 01/03/13 | X | X | X | | | | | | |
| PC-133 | 201301050084 | water | | 01/03/13 | X | X | X | | | | | | |
| ART-9 | 201301050085 | water | | 01/03/13 | X | X | X | | | | | | |
| ART-1MS | 201301050068MS | water | MS | 01/03/13 | X | | | | | | | | |
| ART-1MSD | 201301050068MSD | water | MSD | 01/03/13 | X | | | | | | | | |

| SDG#: 420318 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | | | | |] | LDC#: 3 | 0023A |
|---|-----------------------|----------|--------|----------|---------|-----------|-----------|------|--|--|--|--|--|---|---------|-------|
| Project Name: 2013 An | nual Remedial Perforr | nance Sa | mpling | | Paramet | ers/Analy | ytical Me | hod | | | | | | | | |
| Client ID # Lab ID # Matrix QC Type Collected (6010) (314.0) 160.1) Client ID # Client ID # | | | | | | | | | | | | | | | | |
| PC-121MS | 201301050083MS | water | MS | 01/03/13 | X | | | | | | | | | | | |
| PC-121MSD | 201301050083MSD | water | MSD | 01/03/13 | X | | | | | | | | | | | |
| PC-118DUP | 201301050080DUP | water | DUP | 01/03/13 | | | X | | | | | | | | | |
| PC-119DUP | 201301050081DUP | water | DUP | 01/03/13 | | | X | | | | | | | | | |

| SDG#: 422515 | | | | V | ALIDAT | TON SA | MPLE T | TABLE | | | | LDC#: 3 | 0023B |
|---------------------|-----------------------|-----------|---------|-------------------|--------------------------|--------------------------|-----------|-------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfo | rmance Sa | mpling | | Paramet | ers/Anal | ytical Me | thod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | | |
| MW-K4 | 201301190069 | water | | 01/17/13 | X | X | | | | | | | |
| ARP-1 | 201301190070 | water | | 01/16/13 | X | X | | | | | | | |
| ARP-2A | 201301190071 | water | | 01/17/13 | X | X | | | | | | | |
| ARP-3A | 201301190072 | water | | 01/17/13 | X | X | | | | | | | |
| ARP-4A | 201301190073 | water | | 01/17/13 | X | X | | | | | | | |
| ARP-5A | 201301190074 | water | | 01/17/13 | X | X | | | | | | | |
| ARP-6B | 201301190075 | water | | 01/17/13 | X | X | | | | | | | |
| ARP-7 | 201301190076 | water | | 01/17/13 | X | X | | | | | | | |
| PC-53 | 201301190077 | water | | 01/16/13 | X | X | | | | | | | |
| PC-103 | 201301190078 | water | | 01/17/13 | X | X | | | | | | | |
| MW-K5 | 201301190079 | water | | 01/16/13 | X | X | | | | | | | |
| M-83 | 201301190080 | water | | 01/17/13 | X | X | | | | | | | |
| PC-98R | 201301190081 | water | | 01/17/13 | X | X | | | | | | | |
| PC-86 | 201301190082 | water | | 01/16/13 | X | X | | | | | | | |
| PC-90 | 201301190083 | water | | 01/16/13 | X | X | | | | | | | |
| PC-68 | 201301190084 | water | | 01/16/13 | X | X | | | | | | | |
| PC-122 | 201301190085 | water | | 01/16/13 | X | X | | | | | | | |
| PC-91 | 201301190086 | water | | 01/16/13 | X | X | | | | | | | |
| PC-97 | 201301190087 | water | | 01/16/13 | X | X | | | | | | | |
| PC-18 | 201301190088 | water | | 01/16/13 | X | X | | | | | | | |

| SDG#: 422515 | | | | V | ALIDAT | TION SA | MPLE T | TABLE | | | | | | | LDC#: 3 | 0023B |
|--------------------|--|----------|--------|----------|---------|-----------|----------|--------------|--|--|--|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | tical Me | thod | | | | | | | | |
| Client ID # | Client ID # Lab ID # Matrix QC Type Collected (314.0) TDS (2540C/ 160.1) | | | | | | | | | | | | | | | |
| PC-55 | 201301190089 | water | | 01/16/13 | X | X | | | | | | | | | | |
| PC-101R | 201301190090 | water | | 01/16/13 | X | X | | | | | | | | | | |
| PC-86DUP | 201301190082DUP | water | DUP | 01/16/13 | | X | | | | | | | | | | |
| PC-90MS | 201301190083MS | water | MS | 01/16/13 | X | | | | | | | | | | | |
| PC-90MSD | 201301190083MSD | water | MSD | 01/16/13 | X | | | | | | | | | | | |
| PC-68DUP | 201301190084DUP | water | DUP | 01/16/13 | | X | | | | | | | | | | |

| SDG#: 423999 | | | | V. | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023C |
|---------------------|-----------------------|-----------|---------|-------------------|--------------|--------------------------|--------------------------|----------------|--|--|----------|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfo | rmance Sa | mpling | | Paramet | ers/Anal | ytical Me | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | CrVI (7196) | | | | | |
| PC-123 | 201302050291 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-128 | 201302050292 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-129 | 201302050293 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-130 | 201302050294 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-131 | 201302050295 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-132 | 201302050296 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-124 | 201302050297 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-125 | 201302050298 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-126 | 201302050299 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-127 | 201302050300 | water | | 02/04/13 | X | X | X | | | | | | |
| M-95 | 201302050302 | water | FD1 | 02/04/13 | X | X | X | X | | | | | |
| PC-54 | 201302050303 | water | | 02/04/13 | X | X | X | | | | | | |
| M-48A | 201302050306 | water | | 02/04/13 | X | X | X | | | | | | |
| M-44 | 201302050307 | water | | 02/04/13 | X | X | X | X | | | | | |
| PC-71 | 201302050308 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-72 | 201302050309 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-73 | 201302050310 | water | | 02/04/13 | X | X | X | | | | <u> </u> | | |
| PC-37 | 201302050311 | water | | 02/04/13 | X | X | X | | | | | | |
| M-23 | 201302050312 | water | | 02/04/13 | X | X | X | | | | | | |
| FB-1 | 201302050313 | water | FB | 02/04/13 | X | X | X | X | | | | | |

| SDG#: 423999 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023C |
|---------------------|------------------------|----------|---------|-------------------|--------------|--------------------------|--------------------------|----------------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | ytical Me | thod | | | | | |
| Client ID # | Lab ID# | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | CrVI (7196) | | | | | |
| VD-3 | 201302050314 | water | FD1 | 02/04/13 | X | X | X | X | | | | | |
| PC-54DUP | 201302050303DUP | water | DUP | 02/04/13 | | | X | | | | | | |
| M-23MS | 201302050312MS | water | MS | 02/04/13 | X | | | | | | | | |
| M-23MSD | 201302050312MSD | water | MSD | 02/04/13 | X | | | | | | | | |
| M-23DUP | 201302050312DUP | water | DUP | 02/04/13 | | | X | | | | | | |
| VD-3MS | 201302050314MS | water | MS | 02/04/13 | | | | X | | | | | |
| VD-3MSD | 201302050314MSD | water | MSD | 02/04/13 | | | | X | | | | | |
| FB-1MS | 201302050313MS | water | MS | 02/04/13 | X | | | | | | | | |
| FB-1MSD | 201302050313MSD | water | MSD | 02/04/13 | Х | | | | | | | | |

| SDG#: 424008 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | |] | L DC#: 3 | 0023D |
|----------------------|-------------------------|----------|---------|-------------------|--------------|--------------------------|--------------------------|------|------|--|---|-----------------|-------|
| Project Name: 2013 A | Annual Remedial Perform | nance Sa | mpling | | Paramet | ers/Analy | ytical Me | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | |
| ART-1 | 20130205325 | water | | 02/04/13 | X | X | X | | | | | | |
| ART-2 | 20130205326 | water | | 02/04/13 | X | X | X | | | | | | |
| ART-3 | 20130205327 | water | | 02/04/13 | X | X | X | | | | | | |
| ART-4 | 20130205328 | water | | 02/04/13 | X | X | X | | | | | | |
| ART-6 | 20130205329 | water | | 02/04/13 | X | X | X | | | | | | |
| ART-7 | 20130205330 | water | | 02/04/13 | X | X | X | | | | | | |
| ART-8 | 20130205331 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-99R2/R3 | 20130205332 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-115R | 20130205333 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-116R | 20130205334 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-117 | 20130205336 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-118 | 20130205337 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-119 | 20130205338 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-120 | 20130205339 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-121 | 20130205340 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-133 | 20130205341 | water | | 02/04/13 | X | X | X | | | | | | |
| ART-9 | 20130205342 | water | | 02/04/13 | X | X | X | | | | | | |
| PC-117MS | 20130205336MS | water | MS | 02/04/13 | X | | | | | | | | |
| PC-117MSD | 20130205336MSD | water | MSD | 02/04/13 | X | | | | | | | | |
| PC-118MS | 20130205337MS | water | MS | 02/04/13 | | X | | | | | | | |

| SDG#: 424008 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | |] | LDC#: 3 | 0023D |
|------------------------|-----------------------|----------|---------|-------------------|--------------|--------------------------|--------------------------|------|--|---|---|---|---------|-------|
| Project Name: 2013 Ann | nual Remedial Perforn | nance Sa | mpling | | Paramet | ers/Analy | ytical Me | hod | | T | 1 | 1 | ī | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | | |
| PC-118MSD | 20130205337MSD | water | MSD | 02/04/13 | | X | | | | | | | | |
| PC-118DUP | 20130205337DUP | water | DUP | 02/04/13 | | | X | • | | | | | | |
| PC-119DUP | 20130205338DUP | water | DUP | 02/04/13 | | | X | | | | | | | |

| SDG#: 424010 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023E |
|-----------------------------|-------------------------|----------|---------|-------------------|--------------|--------------------------|--------------------------|------|--|--|--|----------------|----------|
| Project Name: 2013 A | annual Remedial Perforr | nance Sa | mpling | | Paramet | ers/Analy | ytical Me | thod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | |
| I-O | 201302050345 | water | | 02/04/13 | X | X | X | | | | | | |
| I-P | 201302050346 | water | | 02/04/13 | X | X | X | | | | | | |
| I-H | 201302050347 | water | | 02/04/13 | X | X | X | | | | | | |
| I-U | 201302050348 | water | | 02/04/13 | X | X | X | | | | | | |
| I-T | 201302050349 | water | | 02/04/13 | X | X | X | | | | | | |
| I-G | 201302050350 | water | | 02/04/13 | X | X | X | | | | | | |
| I-Q | 201302050351 | water | | 02/04/13 | X | X | X | | | | | | <u> </u> |
| I-F | 201302050352 | water | | 02/04/13 | X | X | X | | | | | | |
| I-N | 201302050353 | water | | 02/04/13 | X | X | X | | | | | | <u> </u> |
| I-E | 201302050354 | water | | 02/04/13 | X | X | X | | | | | | <u> </u> |
| I-M | 201302050355 | water | | 02/04/13 | X | X | X | | | | | | |
| I-D | 201302050356 | water | | 02/04/13 | X | X | X | | | | | | |
| I-C | 201302050357 | water | | 02/04/13 | X | X | X | | | | | | |
| I-S | 201302050358 | water | | 02/04/13 | X | X | X | | | | | | |
| I-L | 201302050359 | water | | 02/04/13 | X | X | X | | | | | | |
| I-R | 201302050360 | water | | 02/04/13 | X | X | X | | | | | | |
| I-B | 201302050361 | water | | 02/04/13 | X | X | X | | | | | | |
| I-AR | 201302050362 | water | | 02/04/13 | X | X | X | | | | | | |
| I-BMS | 201302050361MS | water | MS | 02/04/13 | X | | | | | | | | |
| I-BMSD | 201302050361MSD | water | MSD | 02/04/13 | X | | | | | | | | |

| SDG#: 424010 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | | | LDC#: 3 | 0023E |
|-----------------------|-----------------------|----------|---------|-------------------|--------------|--------------------------|--------------------------|------|--|--|--|----------------|-------|
| Project Name: 2013 An | nual Remedial Perform | nance Sa | mpling | | Paramet | ers/Analy | ytical Met | hod | | | | | |
| Client ID# | Lab ID# | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | |
| I-BDUP | 201302050361DUP | water | DUP | 02/04/13 | | | X | | | | | | |
| I-ARMS | 201302050362MS | water | MS | 02/04/13 | X | | | | | | | | |
| I-ARMSD | 201302050362MSD | water | MSD | 02/04/13 | X | | | | | | | | |

| SDG#: 424394 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023F |
|----------------------|------------------------|----------|---------|-------------------|--------------|--------------------------|--------------------------|----------------|--|--|------|----------------|----------|
| Project Name: 2013 A | annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | ytical Me | thod | | | | | |
| Client ID # | Lab ID# | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | CrVI (7196) | | | | | |
| M-97 | 201302070215 | water | | 02/06/13 | X | X | X | | | | | | |
| I-V | 201302070216 | water | | 02/06/13 | X | X | X | | | | | | |
| I-K | 201302070217 | water | | 02/06/13 | X | X | X | | | | | | |
| I-J | 201302070218 | water | | 02/06/13 | X | X | X | | | | | | |
| I-Z | 201302070219 | water | | 02/06/13 | X | X | X | | | | | | |
| I-I | 201302070220 | water | | 02/06/13 | X | X | X | | | | | | <u> </u> |
| M-31A | 201302070221 | water | | 02/06/13 | X | X | X | | | | | | |
| M-52 | 201302070222 | water | | 02/06/13 | X | X | X | | | | | | |
| M-35 | 201302070223 | water | | 02/06/13 | X | X | X | | | | | | <u> </u> |
| M-19 | 201302070224 | water | | 02/06/13 | X | X | X | | | | | | <u> </u> |
| M-68 | 201302070225 | water | | 02/06/13 | X | X | X | | | | | | <u> </u> |
| M-67 | 201302070226 | water | | 02/06/13 | X | X | X | | | | | | |
| M-74 | 201302070227 | water | | 02/06/13 | X | X | X | | | | | | |
| M-73 | 201302070228 | water | | 02/06/13 | X | X | X | | | | | | |
| M-12A | 201302070229 | water | | 02/06/13 | X | X | X | X | | | | | |
| M-11 | 201302070230 | water | FD2 | 02/06/13 | X | X | X | X | | | | | |
| M-10 | 201302070231 | water | | 02/06/13 | X | X | X | X | | | | | |
| VD-4 | 201302070232 | water | FD2 | 02/06/13 | X | X | X | X | | | | | |
| EB-2 | 201302070233 | water | EB | 02/06/13 | X | X | X | X | | | | | |
| M-37 | 201302070234 | water | | 02/06/13 | | | | X | | | | | |

| SDG#: 424394 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | | | LDC#: 3 | 0023F |
|---------------------|------------------------|----------|---------|-------------------|--------------|--------------------------|--------------------------|----------------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | ytical Me | thod | | | | | |
| Client ID # | Lab ID# | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | CrVI (7196) | | | | | |
| M-31ADUP | 201302070221DUP | water | DUP | 02/06/13 | | | X | | | | | | |
| M-19MS | 201302070224MS | water | MS | 02/06/13 | X | | | | | | | | |
| M-19MSD | 201302070224MSD | water | MSD | 02/06/13 | X | | | | | | | | |
| M-11MS | 201302070230MS | water | MS | 02/06/13 | | | | X | | | | | |
| M-11MSD | 201302070230MSD | water | MSD | 02/06/13 | | | | X | | | | | |
| M-11DUP | 201302070230DUP | water | DUP | 02/06/13 | | | X | | | | | | |
| M-10MS | 201302070231MS | water | MS | 02/06/13 | X | | | | | | | | |
| M-10MSD | 201302070231MSD | water | MSD | 02/06/13 | X | | | | | | | | |

| SDG#: 424392 | | | | V. | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0051G |
|---------------------|------------------------|----------|---------|-------------------|--------------|--------------------------|--------------------------|----------------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Anal | ytical Me | thod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | CrVI (7196) | | | | | |
| PC-135A | 201302070196 | water | | 02/05/13 | X | X | X | | | | | | |
| PC-136 | 201302070197 | water | | 02/05/13 | X | X | X | | | | | | |
| PC-144 | 201302070198 | water | | 02/05/13 | X | X | X | | | | | | |
| PC-148 | 201302070199 | water | | 02/05/13 | X | X | X | | | | | | |
| PC-149 | 201302070200 | water | | 02/05/13 | X | X | X | | | | | | |
| PC-150 | 201302070201 | water | FD3 | 02/05/13 | X | X | X | | | | | | |
| M-64 | 201302070202 | water | | 02/05/13 | X | X | X | | | | | | |
| M-65 | 201302070203 | water | | 02/05/13 | X | X | X | | | | | | |
| M-66 | 201302070204 | water | FD4 | 02/05/13 | X | X | X | | | | | | |
| M-79 | 201302070205 | water | | 02/05/13 | X | X | X | | | | | | |
| M-69 | 201302070206 | water | | 02/05/13 | X | X | X | | | | | | |
| M-135 | 201302070207 | water | | 02/05/13 | X | X | X | | | | | | |
| M-131 | 201302070208 | water | | 02/05/13 | X | X | X | | | | | | |
| M-57A | 201302070209 | water | | 02/05/13 | X | X | X | | | | | | |
| M-37 | 201302070210 | water | | 02/05/13 | X | X | X | | | | | | |
| M-25 | 201302070211 | water | | 02/05/13 | X | X | X | | | | | | |
| EB-1 | 201302070212 | water | EB | 02/05/13 | X | X | X | X | | | | | |
| VD-1 | 201302070213 | water | FD3 | 02/05/13 | X | X | X | | | | | | |
| VD-2 | 201302070214 | water | FD4 | 02/05/13 | X | X | X | | | | | | |
| PC-136DUP | 201302070197DUP | water | DUP | 02/05/13 | | | X | | | | | | |

| SDG#: 424392 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0051G |
|-----------------------|-----------------------|----------|---------|-------------------|--------------|--------------------------|--------------------------|----------------|--|--|--|----------------|-------|
| Project Name: 2013 An | nnual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | tical Met | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | CrVI (7196) | | | | | |
| PC-149MS | 201302070200MS | water | MS | 02/05/13 | X | | | | | | | | |
| PC-149MSD | 201302070200MSD | water | MSD | 02/05/13 | X | | | | | | | | |
| PC-149DUP | 201302070200DUP | water | DUP | 02/05/13 | | | X | | | | | | |
| PC-150MS | 201302070201MS | water | MS | 02/05/13 | X | | | | | | | | |
| PC-150MSD | 201302070201MSD | water | MSD | 02/05/13 | X | | | | | | | | |
| M-57ADUP | 201302070209DUP | water | DUP | 02/05/13 | | | X | | | | | | |

| SDG#: 424439 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | |] | LDC#: 3 | 0023G |
|------------------------|-----------------------|----------|---------|----------|---------|----------------|-----------|------|---|--|--|---|---------|-------|
| Project Name: 2013 Ann | nual Remedial Perforn | nance Sa | mpling | | Paramet | ers/Analy | tical Met | thod | | | | | | |
| | | | | Date | Cr | TDS (2540C/ | | | | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | | (6010) | 160.1) | | | | | | | | |
| M-10 | 201302080030 | water | | 02/06/13 | X | X | · | | · | | | | | |

| SDG#: 424556 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | |] | LDC#: 3 | 0023Н |
|---------------------|-------------------------|----------|---------|-------------------|--------------|--------------------------|--------------------------|----------------|--|--|---|----------------|-------|
| Project Name: 2013 | Annual Remedial Perform | mance Sa | mpling | | Paramet | ers/Analy | ytical Met | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (6010) | CLO ₄ (314.0) | TDS (2540C/ 160.1) | CrVI (7196) | | | | | |
| M-83 | 201302090028 | water | | 02/07/13 | X | X | X | | | | | | |
| M-80 | 201302090029 | water | | 02/07/13 | X | X | X | | | | | | |
| M-81A | 201302090030 | water | | 02/07/13 | X | X | X | | | | | | |
| M-70 | 201302090031 | water | | 02/07/13 | X | X | X | | | | | | |
| M-71 | 201302090032 | water | | 02/07/13 | X | X | X | | | | | | |
| M-72 | 201302090033 | water | | 02/07/13 | X | X | X | | | | | | |
| M-22A | 201302090034 | water | | 02/07/13 | X | X | X | | | | | | |
| M-14A | 201302090035 | water | | 02/07/13 | X | X | X | | | | | | |
| M-36 | 201302090036 | water | | 02/07/13 | X | X | X | X | | | | | |
| M-38 | 201302090037 | water | | 02/07/13 | X | X | X | | | | | | |
| M-14AMS | 201302090035MS | water | MS | 02/07/13 | X | | | | | | | | |
| M-14AMSD | 201302090035MSD | water | MSD | 02/07/13 | X | | | | | | | | |

| SDG#: 425373 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | | | LDC#: 3 | 0023I |
|---------------------|-----------------------|-----------|---------|-------------------|--------------------------|--------------------------|-----------|------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfo | rmance Sa | mpling | | Paramet | ers/Anal | ytical Me | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | | |
| PC-98R | 201302140731 | water | | 02/13/13 | X | X | | | | | | | |
| PC-86 | 201302140732 | water | | 02/12/13 | X | X | | | | | | | |
| PC-90 | 201302140733 | water | | 02/12/13 | X | X | | | | | | | |
| PC-56 | 201302140734 | water | | 02/12/13 | X | X | | | | | | | |
| PC-58 | 201302140735 | water | | 02/12/13 | X | X | | | | | | | |
| PC-59 | 201302140736 | water | | 02/12/13 | X | X | | | | | | | |
| PC-60 | 201302140737 | water | | 02/12/13 | X | X | | | | | | | |
| PC-62 | 201302140738 | water | | 02/12/13 | X | X | | | | | | | |
| PC-68 | 201302140739 | water | | 02/12/13 | X | X | | | | | | | |
| PC-122 | 201302140740 | water | | 02/13/13 | X | X | | | | | | | |
| MW-K4 | 201302140741 | water | | 02/13/13 | X | X | | | | | | | |
| ARP-1 | 201302140742 | water | | 02/13/13 | X | X | | | | | | | |
| ARP-2A | 201302140743 | water | | 02/13/13 | X | X | | | | | | | |
| ARP-3A | 201302140744 | water | | 02/13/13 | X | X | | | | | | | |
| ARP-4A | 201302140745 | water | | 02/13/13 | X | X | | | | | | | |
| ARP-5A | 201302140746 | water | | 02/13/13 | X | X | | | | | | | |
| ARP-6B | 201302140747 | water | | 02/13/13 | X | X | | | | | | | |
| ARP-7 | 201302140748 | water | | 02/13/13 | X | X | | | | | | | |
| PC-53 | 201302140749 | water | | 02/13/13 | X | X | | | | | | | |
| PC-103 | 201302140750 | water | | 02/13/13 | X | X | | | | | | | |

| SDG#: 425373 | | | | V | ALIDAT | ION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023I |
|---------------------|-------------------------|----------|---------|-------------------|--------------------------|--------------------------|----------|------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perform | mance Sa | mpling | | Paramet | ers/Analy | tical Me | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | | |
| MW-K5 | 201302140751 | water | | 02/13/13 | X | X | | | | | | | |
| PC-91 | 201302140752 | water | | 02/12/13 | X | X | | | | | | | |
| PC-97 | 201302140753 | water | | 02/12/13 | X | X | | | | | | | |
| PC-18 | 201302140754 | water | | 02/12/13 | X | X | | | | | | | |
| PC-55 | 201302140755 | water | | 02/12/13 | X | X | | | | | | | |
| PC-101R | 201302140756 | water | | 02/13/13 | X | X | | | | | | | |
| PC-94 | 201302140757 | water | | 02/13/13 | X | X | | | | | | | |
| ART-7B | 201302140758 | water | | 02/13/13 | X | X | | | | | | | |
| PC-86DUP | 201302140732DUP | water | DUP | 02/12/13 | | X | | | | | | | |
| PC-90MS | 201302140733MS | water | MS | 02/12/13 | X | | | | | | | | |
| PC-90MSD | 201302140733MSD | water | MSD | 02/12/13 | X | | | | | | | | |
| PC-68DUP | 201302140739DUP | water | DUP | 02/12/13 | | X | | | | | | | |

| SDG#: 427572 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 30023J |
|---------------------|------------------------|----------|---------|-------------------|--------------------------|--------------------------|----------|------|--|--|--|----------------|--------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | tical Me | thod | | | | | |
| Client ID# | Lab ID# | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | | |
| ART-1 | 201303080226 | water | | 03/05/13 | X | X | | | | | | | |
| ART-2 | 201303080227 | water | | 03/05/13 | X | X | | | | | | | |
| ART-3 | 201303080228 | water | | 03/05/13 | X | X | | | | | | | |
| ART-4 | 201303080229 | water | | 03/05/13 | X | X | | | | | | | |
| ART-6 | 201303080230 | water | | 03/05/13 | X | X | | | | | | | |
| ART-7 | 201303080231 | water | | 03/05/13 | X | X | | | | | | | |
| ART-8 | 201303080232 | water | | 03/05/13 | X | X | | | | | | | |
| PC-99R2/R3 | 201303080233 | water | | 03/05/13 | X | X | | | | | | | |
| PC-115R | 201303080234 | water | | 03/05/13 | X | X | | | | | | | |
| PC-116R | 201303080235 | water | | 03/05/13 | X | X | | | | | | | |
| PC-117 | 201303080237 | water | | 03/05/13 | X | X | | | | | | | |
| PC-118 | 201303080238 | water | | 03/05/13 | X | X | | | | | | | |
| PC-119 | 201303080239 | water | | 03/05/13 | X | X | | | | | | | |
| PC-120 | 201303080240 | water | | 03/05/13 | X | X | | | | | | | |
| PC-121 | 201303080241 | water | | 03/05/13 | X | X | | | | | | | |
| PC-133 | 201303080242 | water | | 03/05/13 | X | X | | | | | | | |
| ART-9 | 201303080243 | water | | 03/05/13 | X | X | | | | | | | |

| SDG#: 428373 | | | | V | ALIDAT | TON SA | MPLE T | TABLE | | | | LDC#: 3 | 0023K |
|---------------------|-----------------------|-----------|---------|-------------------|--------------------------|--------------------------|-----------|-------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfo | rmance Sa | mpling | | Paramet | ers/Anal | ytical Me | thod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | | |
| M-83 | 201303150323 | water | | 03/13/13 | X | X | | | | | | | |
| PC-98R | 201303150324 | water | | 03/13/13 | X | X | | | | | | | |
| PC-86 | 201303150325 | water | | 03/12/13 | X | X | | | | | | | |
| PC-90 | 201303150326 | water | | 03/12/13 | X | X | | | | | | | |
| PC-56 | 201303150327 | water | | 03/12/13 | X | X | | | | | | | |
| PC-58 | 201303150328 | water | | 03/12/13 | X | X | | | | | | | |
| PC-59 | 201303150329 | water | | 03/12/13 | X | X | | | | | | | |
| PC-60 | 201303150330 | water | | 03/12/13 | X | X | | | | | | | |
| PC-62 | 201303150331 | water | | 03/12/13 | X | X | | | | | | | |
| PC-68 | 201303150332 | water | | 03/12/13 | X | X | | | | | | | |
| PC-122 | 201303150333 | water | | 03/13/13 | X | X | | | | | | | |
| MW-K4 | 201303150334 | water | | 03/13/13 | X | X | | | | | | | |
| ARP-1 | 201303150335 | water | | 03/12/13 | X | X | | | | | | | |
| ARP-2A | 201303150336 | water | | 03/13/13 | X | X | | | | | | | |
| ARP-3A | 201303150337 | water | | 03/13/13 | X | X | | | | | | | |
| ARP-4A | 201303150338 | water | | 03/13/13 | X | X | | | | | | | |
| ARP-5A | 201303150339 | water | | 03/13/13 | X | X | | | | | | | |
| ARP-6B | 201303150340 | water | | 03/13/13 | X | X | | | | | | | |
| ARP-7 | 201303150341 | water | | 03/13/13 | X | X | | | | | | | |
| PC-53 | 201303150342 | water | | 03/13/13 | X | X | | | | | | | |

| SDG#: 428373 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023K |
|---------------------|------------------------|----------|---------|-------------------|--------------------------|--------------------------|----------|------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | tical Me | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | | |
| PC-103 | 201303150343 | water | | 03/13/13 | X | X | | | | | | | |
| MW-K5 | 201303150344 | water | | 03/13/13 | X | X | | | | | | | |
| ART-7B | 201303150345 | water | | 03/13/13 | X | X | | | | | | | |
| PC-91 | 201303150346 | water | | 03/12/13 | X | X | | | | | | | |
| PC-97 | 201303150347 | water | | 03/12/13 | X | X | | | | | | | |
| PC-18 | 201303150348 | water | | 03/12/13 | X | X | | | | | | | |
| PC-55 | 201303150349 | water | | 03/12/13 | X | X | | | | | | | |
| PC-101R | 201303150350 | water | | 03/12/13 | X | X | | | | | | | |
| M-83MS | 201303150323MS | water | MS | 03/13/13 | X | | | | | | | | |
| M-83MSD | 201303150323MSD | water | MSD | 03/13/13 | X | | | | | | | | |
| M-83DUP | 201303150323DUP | water | DUP | 03/13/13 | | X | | | | | | | |
| PC-68DUP | 201303150332DUP | water | DUP | 03/12/13 | | X | | | | | | | |
| PC-55MS | 201303150349MS | water | MS | 03/12/13 | X | | | | | | | | |
| PC-55MSD | 201303150349MSD | water | MSD | 03/12/13 | X | | | | | | | | |

| SDG#: 440-42678-1 | | | | V. | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023L |
|--------------------------|-------------------------|----------|---------|-------------------|--------------------------|--------------------------|----------|------|--|--|--|----------------|-------|
| Project Name: 2013 A | Annual Remedial Perforr | nance Sa | mpling | | Paramet | ers/Analy | tical Me | thod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | | |
| ART-1 | 440-42678-1 | water | | 04/02/13 | X | X | | | | | | | |
| ART-2 | 440-42678-2 | water | | 04/02/13 | X | X | | | | | | | |
| ART-3 | 440-42678-3 | water | | 04/02/13 | X | X | | | | | | | |
| ART-4 | 440-42678-4 | water | | 04/02/13 | X | X | | | | | | | |
| ART-6 | 440-42678-5 | water | | 04/02/13 | X | X | | | | | | | |
| ART-7 | 440-42678-6 | water | | 04/02/13 | X | X | | | | | | | |
| ART-8 | 440-42678-7 | water | | 04/02/13 | X | X | | | | | | | |
| ART-9 | 440-42678-8 | water | | 04/02/13 | X | X | | | | | | | |
| PC-99R2/R3 | 440-42678-9 | water | | 04/02/13 | X | X | | | | | | | |
| PC-115R | 440-42678-10 | water | | 04/02/13 | X | X | | | | | | | |
| PC-116R | 440-42678-11 | water | | 04/02/13 | X | X | | | | | | | |
| PC-117 | 440-42678-12 | water | | 04/02/13 | X | X | | | | | | | |
| PC-118 | 440-42678-13 | water | | 04/02/13 | X | X | | | | | | | |
| PC-119 | 440-42678-14 | water | | 04/02/13 | X | X | | | | | | | |
| PC-120 | 440-42678-15 | water | | 04/02/13 | X | X | | | | | | | |
| PC-121 | 440-42678-16 | water | | 04/02/13 | X | X | | | | | | | |
| PC-133 | 440-42678-17 | water | | 04/02/13 | X | X | | | | | | | |
| ART-1DUP | 440-42678-1DUP | water | DUP | 04/02/13 | | X | | | | | | | |

| SDG#: 440-43599-1 | | | | V. | ALIDAT | ION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023M |
|--------------------------|-----------------------|----------|---------|-------------------|--------------------------|--------------------------|-----------|------|--|--|--|----------------|-------|
| Project Name: 2013 Aı | nnual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Anal | ytical Me | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | | |
| PC-86 | 440-43599-1 | water | | 04/09/13 | X | X | | | | | | | |
| PC-90 | 440-43599-2 | water | | 04/09/13 | X | X | | | | | | | |
| PC-91 | 440-43599-3 | water | | 04/09/13 | X | X | | | | | | | |
| PC-97 | 440-43599-4 | water | | 04/09/13 | X | X | | | | | | | |
| PC-18 | 440-43599-5 | water | | 04/09/13 | X | X | | | | | | | |
| PC-55 | 440-43599-6 | water | | 04/09/13 | X | X | | | | | | | |
| PC-101R | 440-43599-7 | water | | 04/10/13 | X | X | | | | | | | |
| MW-K4 | 440-43599-8 | water | | 04/10/13 | X | X | | | | | | | |
| ARP-1 | 440-43599-9 | water | | 04/09/13 | X | X | | | | | | | |
| ARP-2A | 440-43599-10 | water | | 04/10/13 | X | X | | | | | | | |
| ARP-3A | 440-43599-11 | water | | 04/10/13 | X | X | | | | | | | |
| ARP-4A | 440-43599-12 | water | | 04/10/13 | X | X | | | | | | | |
| ARP-5A | 440-43599-13 | water | | 04/10/13 | X | X | | | | | | | |
| ARP-6B | 440-43599-14 | water | | 04/10/13 | X | X | | | | | | | |
| ARP-7 | 440-43599-15 | water | | 04/10/13 | X | X | | | | | | | |
| PC-53 | 440-43599-16 | water | | 04/11/13 | X | X | | | | | | | |
| PC-103 | 440-43599-17 | water | | 04/10/13 | X | X | | | | | | | |
| MW-K5 | 440-43599-18 | water | | 04/11/13 | X | X | | | | | | | |
| M-83 | 440-43599-19 | water | | 04/09/13 | X | X | | | | | | | |
| PC-98R | 440-43599-20 | water | | 04/11/13 | X | X | | | | | | | |

| SDG#: 440-43599-1 | | | | V. | ALIDAT | TION SA | MPLE | TABLE | | | | LDC#: 3 | 0023M |
|---------------------------|------------------------|----------|---------|-------------------|--------------------------|--------------------------|----------|-------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | tical Me | thod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C/ 160.1) | | | | | | | |
| PC-58 | 440-43599-21 | water | | 04/10/13 | X | X | | | | | | | |
| PC-56 | 440-43599-22 | water | | 04/10/13 | X | X | | | | | | | |
| PC-60 | 440-43599-23 | water | | 04/10/13 | X | X | | | | | | | |
| PC-59 | 440-43599-24 | water | | 04/10/13 | X | X | | | | | | | |
| PC-62 | 440-43599-25 | water | | 04/10/13 | X | X | | | | | | | |
| PC-68 | 440-43599-26 | water | | 04/10/13 | X | X | | | | | | | |
| PC-122 | 440-43599-27 | water | | 04/11/13 | X | X | | | | | | | |
| PC-86DUP | 440-43599-1DUP | water | DUP | 04/09/13 | | X | | | | | | | |
| PC-58DUP | 440-43599-21DUP | water | DUP | 04/10/13 | | X | | | | | | | |

| SDG#: 440-45612-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 30023N |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|---|--|---|---------|--------|
| Project Name: 2013 Ar | nnual Remedial Perform | nance Sa | mpling | | Paramet | ers/Anal | ytical Met | thod | _ | | _ | | _ |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| PC-123 | 440-45612-1 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-128 | 440-45612-2 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-129 | 440-45612-3 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-130 | 440-45612-4 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-50 | 440-45612-5 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-131 | 440-45612-6 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-132 | 440-45612-7 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-124 | 440-45612-8 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-125 | 440-45612-9 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-126 | 440-45612-10 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-24 | 440-45612-11 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-127 | 440-45612-12 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-123MS | 440-45612-1MS | water | MS | 05/06/13 | X | | | | | | | | |
| PC-123MSD | 440-45612-1MSD | water | MSD | 05/06/13 | X | | | | | | | | |
| PC-123DUP | 440-45612-1DUP | water | DUP | 05/06/13 | | | X | | | | | | |
| PC-125MS | 440-45612-9MS | water | MS | 05/06/13 | X | | | | | | | | |
| PC-125MSD | 440-45612-9MSD | water | MSD | 05/06/13 | X | | | | | | | | |

| SDG#: 440-45619-1 | | | | V. | ALIDAT | TON SA | MPLE T | ABLE | | | | LDC#: 3 | 00230 |
|------------------------------|-----------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|--|----------------|-------|
| Project Name: 2013 Ar | nual Remedial Perforr | nance Sa | mpling | | Paramet | ers/Analy | ytical Met | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| I-AR | 440-45619-1 | water | | 05/06/13 | X | X | X | | | | | | |
| I-B | 440-45619-2 | water | | 05/06/13 | X | X | X | | | | | | |
| I-R | 440-45619-3 | water | | 05/06/13 | X | X | X | | | | | | |
| I-L | 440-45619-4 | water | | 05/06/13 | X | X | X | | | | | | |
| I-S | 440-45619-5 | water | | 05/06/13 | X | X | X | | | | | | |
| I-C | 440-45619-6 | water | | 05/06/13 | X | X | X | | | | | | |
| I-D | 440-45619-7 | water | | 05/06/13 | X | X | X | | | | | | |
| I-M | 440-45619-8 | water | | 05/06/13 | X | X | X | | | | | | |
| I-E | 440-45619-9 | water | | 05/06/13 | X | X | X | | | | | | |
| I-N | 440-45619-10 | water | | 05/06/13 | X | X | X | | | | | | |
| I-F | 440-45619-11 | water | | 05/06/13 | X | X | X | | | | | | |
| I-Q | 440-45619-12 | water | | 05/06/13 | X | X | X | | | | | | |
| I-ARDUP | 440-45619-1DUP | water | DUP | 05/06/13 | | | X | | | | | | |
| I-DMS | 440-45619-7MS | water | MS | 05/06/13 | X | | | | | | | | |
| I-DMSD | 440-45619-7MSD | water | MSD | 05/06/13 | X | | | | | | | | |

| SDG#: 440-45623-1 | [| | | V | ALIDAT | TON SA | MPLE T | ABLE | | | | LDC#: 3 | 0023P |
|--------------------------|--------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|--|----------------|-------|
| Project Name: 2013 | 3 Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | ytical Me | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| I-G | 440-45623-1 | water | | 05/06/13 | X | X | X | | | | | | |
| I-T | 440-45623-2 | water | | 05/06/13 | X | X | X | | | | | | |
| I-U | 440-45623-3 | water | | 05/06/13 | X | X | X | | | | | | |
| I-H | 440-45623-4 | water | | 05/06/13 | X | X | X | | | | | | |
| I-P | 440-45623-5 | water | | 05/06/13 | X | X | X | | | | | | |
| I-O | 440-45623-6 | water | | 05/06/13 | X | X | X | | | | | | |
| I-PMS | 440-45623-5MS | water | MS | 05/06/13 | X | | | | | | | | |
| I-PMSD | 440-45623-5MSD | water | MSD | 05/06/13 | X | | | | | | | | |

| SDG#: 440-45624-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0051A |
|---------------------------|-------------------------|-----------|---------|-------------------|---------------|--------------------------|-------------|------|--|--|---|----------------|-------|
| Project Name: 2013 | Annual Remedial Perform | rmance Sa | mpling | | Paramet | ers/Analy | ytical Me | hod | | | _ | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| PC-28 | 440-45624-1 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-31 | 440-45624-2 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-64 | 440-45624-3 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-65 | 440-45624-4 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-66 | 440-45624-5 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-67 | 440-45624-6 | water | | 05/06/13 | X | X | X | | | | | | |

| SDG#: 440-45716-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023Q |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|-------------|-----------------|--|--|---|----------------|-------|
| Project Name: 2013 A | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | tical Me | thod | | | _ | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | CrVI (218.6) | | | | | |
| PC-144 | 440-45716-1 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-134A | 440-45716-2 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-135A | 440-45716-3 | water | | 05/07/13 | X | X | X | | | | | | |
| HMW-16 | 440-45716-4 | water | | 05/07/13 | | X | X | | | | | | |
| HMW-13 | 440-45716-5 | water | | 05/07/13 | | X | X | | | | | | |
| FB-1 | 440-45716-6 | water | FB | 05/07/13 | X | X | X | X | | | | | |

| SDG#: 440-45723-1 | | | | V | ALIDAT | ION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023R |
|--------------------------|--------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|--|----------------|-------|
| Project Name: 2013 | 3 Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | ytical Met | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| AA-01 | 440-45723-1 | water | | 05/07/13 | | X | X | | | | | | |
| PC-148 | 440-45723-2 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-149 | 440-45723-3 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-150 | 440-45723-4 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-143 | 440-45723-5 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-142 | 440-45723-6 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-145 | 440-45723-7 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-137 | 440-45723-8 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-136 | 440-45723-9 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-2 | 440-45723-10 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-4 | 440-45723-11 | water | | 05/07/13 | X | X | X | | | | | | |
| PC-148MS | 440-45723-2MS | water | MS | 05/07/13 | X | | | | | | | | |
| PC-148MSD | 440-45723-2MSD | water | MSD | 05/07/13 | X | | | | | | | | |
| PC-4DUP | 440-45723-11DUP | water | DUP | 05/07/13 | | | X | | | | | | |

| SDG#: 440-45890-1 | | | | V. | ALIDAT | TION SA | MPLE T | ABLE | | |] | LDC#: 3 | 0023S |
|--------------------------|-------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|---|----------------|-------|
| Project Name: 2013 A | Annual Remedial Perform | nance Sa | mpling | | Paramet | ers/Anal | ytical Me | thod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| ART-1 | 440-45890-1 | water | | 05/06/13 | X | X | X | | | | | | |
| ART-2 | 440-45890-2 | water | | 05/06/13 | X | X | X | | | | | | |
| ART-3 | 440-45890-3 | water | | 05/06/13 | X | X | X | | | | | | |
| ART-4 | 440-45890-4 | water | | 05/06/13 | X | X | X | | | | | | |
| ART-6 | 440-45890-5 | water | | 05/06/13 | X | X | X | | | | | | |
| ART-7 | 440-45890-6 | water | | 05/06/13 | X | X | X | | | | | | |
| ART-8 | 440-45890-7 | water | | 05/06/13 | X | X | X | | | | | | |
| ART-9 | 440-45890-8 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-99R2/R3 | 440-45890-9 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-115R | 440-45890-10 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-116R | 440-45890-11 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-117 | 440-45890-12 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-118 | 440-45890-13 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-119 | 440-45890-14 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-120 | 440-45890-15 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-121 | 440-45890-16 | water | | 05/06/13 | X | X | X | | | | | | |
| PC-133 | 440-45890-17 | water | | 05/06/13 | X | X | X | | | | | | |
| ART-1MS | 440-45890-1MS | water | MS | 05/06/13 | X | | | | | | | | |
| ART-1MSD | 440-45890-1MSD | water | MSD | 05/06/13 | X | | | | | | | | |
| ART-1DUP | 440-45890-1DUP | water | DUP | 05/06/13 | | | X | | | | | | |

| SDG#: 440-45890-1 | | | | V | ALIDAT | ION SA | MPLE T | ABLE | | |] | LDC#: 3 | 0023S |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|-------------|------|--|--|---|----------------|-------|
| Project Name: 2013 Ar | nnual Remedial Perform | nance Sa | mpling | | Paramet | ers/Analy | ytical Me | thod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| PC-116RMS | 440-45890-11MS | water | MS | 05/06/13 | X | | | | | | | | |
| PC-116RMSD | 440-45890-11MSD | water | MSD | 05/06/13 | X | | | | | | | | |

| SDG#: 440-45976-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0023T |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | ytical Me | hod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| PC-71 | 440-45976-1 | water | | 05/08/13 | X | X | X | | | | | | |
| PC-72 | 440-45976-2 | water | | 05/08/13 | X | X | X | | | | | | |
| PC-73 | 440-45976-3 | water | | 05/08/13 | X | X | X | | | | | | |
| PC-40 | 440-45976-4 | water | | 05/08/13 | X | X | X | | | | | | |
| H-58A | 440-45976-5 | water | | 05/08/13 | X | X | X | | | | | | |
| H-48 | 440-45976-6 | water | | 05/08/13 | X | X | X | | | | | | |
| MC-65 | 440-45976-7 | water | | 05/08/13 | X | X | X | | | | | | |
| PC-37 | 440-45976-8 | water | FD7* | 05/08/13 | X | X | X | | | | | | |
| HM-2 | 440-45976-9 | water | | 05/08/13 | | X | X | | | | | | |
| PC-107 | 440-45976-10 | water | | 05/08/13 | | X | X | | | | | | |
| HMW-14 | 440-45976-11 | water | | 05/08/13 | | X | X | | | | | | |
| HMW-15 | 440-45976-12 | water | | 05/08/13 | | X | X | | | | | | |
| PC-71DUP | 440-45976-1DUP | water | DUP | 05/08/13 | | | X | | | | | | |
| PC-40MS | 440-45976-4MS | water | MS | 05/08/13 | X | | | | | | | | |
| PC-40MSD | 440-45976-4MSD | water | MSD | 05/08/13 | X | | | | | | | | |

^{*}FD7 = Sample PC-37 is the parent sample of field duplicate VD-5 (from SDG 440-46009-1).

| SDG#: 440-46009-1 | | | | V | ALIDAT | ION SA | MPLE T | ABLE | | | | LDC#: 3 | 0051B |
|---------------------------|-----------------------|-----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfo | rmance Sa | mpling | | Paramet | ers/Analy | ytical Met | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| PC-54 | 440-46009-1 | water | | 05/08/13 | X | X | X | | | | | | |
| M-95 | 440-46009-2 | water | | 05/08/13 | X | X | X | | | | | | |
| PC-21A | 440-46009-3 | water | FD6 | 05/08/13 | X | X | X | | | | | | |
| M-48A | 440-46009-4 | water | FD5 | 05/08/13 | X | X | X | | | | | | |
| VD-3 | 440-46009-5 | water | FD5 | 05/08/13 | X | X | X | | | | | | |
| VD-4 | 440-46009-6 | water | FD6 | 05/08/13 | X | X | X | | | | | | |
| VD-5 | 440-46009-7 | water | FD7* | 05/08/13 | X | X | X | | | | | | |
| M-44 | 440-46009-8 | water | | 05/08/13 | X | X | X | | | | | | |
| EB-1 | 440-46009-9 | water | EB | 05/08/13 | X | X | X | | | | | | |
| EB-1MS | 440-46009-9MS | water | MS | 05/08/13 | | X | | | | | | | |
| EB-1MSD | 440-46009-9MSD | water | MSD | 05/08/13 | | X | | | | | | | |
| M-48AMS | 440-46009-4MS | water | MS | 05/08/13 | X | | | | | | | | |
| M-48AMSD | 440-46009-4MSD | water | MSD | 05/08/13 | X | | | | | | | | |

^{*}FD7 = Sample VD-5 is the field duplicate of parent sample PC-37 (from SDG 440-45976-1).

| SDG#: 440-46072-1 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | | | LDC#: 3 | 0051C |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | ytical Me | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| MC-53 | 440-46072-1 | water | | 05/09/13 | X | X | X | | | | | | |
| MC-7 | 440-46072-2 | water | | 05/09/13 | | X | X | | | | | | |
| MC-6 | 440-46072-3 | water | | 05/09/13 | | X | X | | | | | | |
| MC-45 | 440-46072-4 | water | | 05/09/13 | | X | X | | | | | | |
| MC-50 | 440-46072-5 | water | | 05/09/13 | | X | X | | | | | | |
| MC-51 | 440-46072-6 | water | | 05/09/13 | | X | X | | | | | | |
| MC-93 | 440-46072-7 | water | | 05/09/13 | | X | X | | | | | | |
| MC-69 | 440-46072-8 | water | | 05/09/13 | | X | X | | | | | | |
| MC-3 | 440-46072-9 | water | | 05/09/13 | | X | X | | | | | | |
| MC-29 | 440-46072-10 | water | | 05/09/13 | | X | X | | | | | | |
| MC-97 | 440-46072-11 | water | | 05/09/13 | | X | X | | | | | | |
| M-23 | 440-46072-12 | water | FD8* | 05/09/13 | X | X | X | | | | | | |
| MC-53DUP | 440-46072-1DUP | water | DUP | 05/09/13 | | | X | | | | | | |
| M-23MS | 440-46072-12MS | water | MS | 05/09/13 | X | | | | | | | | |
| M-23MSD | 440-46072-12MSD | water | MSD | 05/09/13 | X | | | | | | | | |

^{*}FD8 = Sample M-23 is the parent sample of field duplicate VD-6 (from SDG 440-46077-1).

| SDG#: 440-46077-1 | 1 | | | V | ALIDAT | TION SA | MPLE T | ABLE | | |] | LDC#: 3 | 0023U |
|--------------------------|-------------------------|-----------|---------|-------------------|---------------|--------------------------|----------------|-----------------|--|--|---|----------------|-------|
| Project Name: 2013 | 3 Annual Remedial Perfo | rmance Sa | mpling | | Paramet | ers/Analy | ytical Met | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | CrVI (218.6) | | | | | |
| M-92 | 440-46077-1 | water | | 05/09/13 | X | X | X | | | | | | |
| M-97 | 440-46077-2 | water | | 05/09/13 | X | X | X | | | | | | |
| M-64 | 440-46077-3 | water | | 05/09/13 | X | X | X | | | | | | |
| M-65 | 440-46077-4 | water | FD9 | 05/09/13 | X | X | X | | | | | | |
| M-66 | 440-46077-5 | water | | 05/09/13 | X | X | X | | | | | | |
| EB-2 | 440-46077-6 | water | EB | 05/09/13 | X | X | X | X | | | | | |
| M-79 | 440-46077-7 | water | | 05/09/13 | X | X | X | | | | | | |
| M-69 | 440-46077-8 | water | | 05/09/13 | X | X | X | | | | | | |
| I-V | 440-46077-9 | water | | 05/09/13 | X | X | X | | | | | | |
| VD-6 | 440-46077-10 | water | FD8* | 05/09/13 | X | X | X | | | | | | |
| VD-7 | 440-46077-11 | water | FD9 | 05/09/13 | X | X | X | | | | | | |
| EB-2MS | 440-46077-6MS | water | MS | 05/09/13 | X | X | | X | | | | | |
| EB-2MSD | 440-46077-6MSD | water | MSD | 05/09/13 | X | X | | X | | | | | |

^{*}FD8 = Sample VD-6 is the field duplicate of parent sample M-23(from SDG 440-46072-1).

| SDG#: 440-46367-1 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | |] | LDC#: 3 | 0023V |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|-----------------|--|--|---|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | ytical Met | thod | | | | | |
| Client ID # | Lab ID# | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | CrVI (218.6) | | | | | |
| M-76 | 440-46367-1 | water | | 05/13/13 | X | X | X | | | | | | |
| M-25 | 440-46367-2 | water | | 05/13/13 | X | X | X | | | | | | |
| M-37 | 440-46367-3 | water | | 05/13/13 | X | X | X | X | | | | | |
| M-14A | 440-46367-4 | water | | 05/13/13 | X | X | X | | | | | | |
| M-115 | 440-46367-5 | water | | 05/13/13 | X | X | X | | | | | | |
| M-75 | 440-46367-6 | water | | 05/13/13 | X | X | X | | | | | | |
| M-2A | 440-46367-7 | water | | 05/13/13 | X | X | X | | | | | | |
| M-35 | 440-46367-8 | water | FD11* | 05/13/13 | X | X | X | | | | | | |
| M-19 | 440-46367-9 | water | | 05/13/13 | X | X | X | | | | | | |
| M-68 | 440-46367-10 | water | | 05/13/13 | X | X | X | | | | | | |
| M-74 | 440-46367-11 | water | | 05/13/13 | X | X | X | | | | | | |
| M-73 | 440-46367-12 | water | | 05/13/13 | X | X | X | | | | | | |
| M-14AMS | 440-46367-4MS | water | MS | 05/13/13 | X | | | | | | | | |
| M-14AMSD | 440-46367-4MSD | water | MSD | 05/13/13 | X | | | | | | | | |

FD11* = Sample M-35 is the parent sample of field duplicate VD-8 (from SDG 440-46598-1).

| SDG#: 440-46369-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | |] | LDC#: 3 | 0023W |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|---|----------------|-------|
| Project Name: 2013 A | nnual Remedial Perform | nance Sa | mpling | | Paramet | ers/Analy | ytical Met | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| I-K | 440-46369-1 | water | | 05/13/13 | X | X | X | | | | | | |
| I-J | 440-46369-2 | water | | 05/13/13 | X | X | X | | | | | | |
| I-Z | 440-46369-3 | water | | 05/13/13 | X | X | X | | | | | | |
| I-I | 440-46369-4 | water | | 05/13/13 | X | X | X | | | | | | |
| M-136 | 440-46369-5 | water | | 05/13/13 | X | X | X | | | | | | |
| M-135 | 440-46369-6 | water | | 05/13/13 | X | X | X | | | | | | |
| M-134 | 440-46369-7 | water | | 05/13/13 | X | X | X | | | | | | |
| M-131 | 440-46369-8 | water | | 05/13/13 | X | X | X | | | | | | |
| M-57A | 440-46369-9 | water | | 05/13/13 | X | X | X | | | | | | |
| M-126 | 440-46369-10 | water | | 05/13/13 | X | X | X | | | | | | |
| MW-16 | 440-46369-11 | water | | 05/13/13 | X | X | X | | | | | | |
| M-99 | 440-46369-12 | water | | 05/13/13 | X | X | X | | | | | | |
| I-KDUP | 440-46369-1DUP | water | DUP | 05/13/13 | | | X | | | | | | |
| M-134MS | 440-46369-7MS | water | MS | 05/13/13 | X | | | | | | | | |
| M-134MSD | 440-46369-7MSD | water | MSD | 05/13/13 | X | | | | | | | | |

| SDG#: 440-46454-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | |] | LDC#: 3 | 0023X |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|-----------------|--|--|---|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | ytical Met | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | CrVI (218.6) | | | | | |
| M-38 | 440-46454-1 | water | | 05/14/13 | X | X | X | | | | | | |
| H-11 | 440-46454-2 | water | | 05/14/13 | | X | X | | | | | | |
| M-125 | 440-46454-3 | water | | 05/14/13 | | X | X | | | | | | |
| M-142 | 440-46454-4 | water | | 05/14/13 | X | X | X | | | | | | |
| M-36 | 440-46454-5 | water | | 05/14/13 | X | X | X | X | | | | | |
| EB-3 | 440-46454-6 | water | EB | 05/14/13 | X | X | X | X | | | | | |
| FB-2 | 440-46454-7 | water | FB | 05/14/13 | X | X | X | X | | | | | |
| VD-10 | 440-46454-8 | water | FD10* | 05/14/13 | X | X | X | X | | | | | |
| M-38MS | 440-46454-1MS | water | MS | 05/14/13 | X | | | | | | | | |
| M-38MSD | 440-46454-1MSD | water | MSD | 05/14/13 | X | | | | | | | | |
| M-38DUP | 440-46454-1DUP | water | DUP | 05/14/13 | | | X | | | | | | |
| EB-3MS | 440-46454-6MS | water | MS | 05/14/13 | | | | X | | | | | |
| EB-3MSD | 440-46454-6MSD | water | MSD | 05/14/13 | | | | X | | | | | |

^{*}FD10 = Sample VD-10 is the field duplicate of parent sample M-10 (from SDG 440-46459-1).

| SDG#: 440-46457-1 | | | | V | ALIDAT | ION SA | MPLE T | ABLE | | |] | LDC#: 3 | 0023Y |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|---|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Anal | ytical Met | hod | | | | | |
| Client ID # | Lab ID# | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| M-67 | 440-46457-1 | water | | 05/14/13 | X | X | X | | | | | | |
| M-81A | 440-46457-2 | water | | 05/14/13 | X | X | X | | | | | | |
| M-80 | 440-46457-3 | water | | 05/14/13 | X | X | X | | | | | | |
| M-83 | 440-46457-4 | water | | 05/14/13 | X | X | X | | | | | | |
| M-70 | 440-46457-5 | water | | 05/14/13 | X | X | X | | | | | | |
| M-71 | 440-46457-6 | water | | 05/14/13 | X | X | X | | | | | | |
| M-72 | 440-46457-7 | water | | 05/14/13 | X | X | X | | | | | | |
| M-22A | 440-46457-8 | water | | 05/14/13 | X | X | X | | | | | | |
| M-133 | 440-46457-9 | water | | 05/14/13 | X | X | X | | | | | | |
| M-123 | 440-46457-10 | water | | 05/14/13 | | X | X | | | | | | |
| M-128 | 440-46457-11 | water | | 05/14/13 | | X | X | | | | | | |
| M-124 | 440-46457-12 | water | | 05/14/13 | X | X | X | | | | | | |
| M-71MS | 440-46457-6MS | water | MS | 05/14/13 | X | | | | | | | | |
| M-71MSD | 440-46457-6MSD | water | MSD | 05/14/13 | X | | | | | | | | |

| SDG#: 440-46459-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | | | LDC#: 3 | 0023Z |
|--------------------------|-----------------------|----------|---------|-------------------|---------------|--------------------------|-------------|--------------|--|---|---|---|---|----------------|-------|
| Project Name: 2013 An | nual Remedial Perform | nance Sa | mpling | | Paramet | ers/Analy | ytical Me | thod | | Π | I | ı | Π | Π | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | CrVI (218.6) | | | | | | | |
| M-10 | 440-46459-1 | water | FD10* | 05/14/13 | X | X | X | X | | | | | | | |

FD10* = Sample M-10 is the parent sample of field duplicate VD-10 (from SDG 440-46454-1).

| SDG#: 440-465 | 598-1 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | | | LDC#: 3 | 0041A |
|----------------------|----------|----------------------|----------|---------|-------------------|---------------|------------------|-------------|------|--|--|--|----------------|-------|
| Project Name: | 2013 Ann | ual Remedial Perform | nance Sa | mpling | | Paramet | ers/Analy | ytical Me | thod | | | | | |
| | | | | | | | | | | | | | | |
| Client ID | . # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ | TDS (2540C) | | | | | | |
| Chent ID | · H | Eas ID II | Matrix | QC Type | Conceteu | (200.7) | (314.0) | (25400) | | | | | | |
| VD-8 | | 440-46598-1 | water | FD11* | 05/13/13 | X | X | X | | | | | | |

^{*}FD11 = Sample VD-8 is the field duplicate of parent sample M-35 (from SDG 440-46367-1).

| SDG#: 440-46736-1 | | | | V | | | MPLE T | | | | | | | | LDC#: 3 | 0041B |
|--------------------------|-----------------------|---|---------|-------------------|---------------|--------------------------|-------------|--|--|--|--|--|--|--|----------------|-------|
| Project Name: 2013 At | nual Remedial Perform | edial Performance Sampling Parameters/Analytical Method | | | | | | | | | | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | | | | |
| PC-96 | 440-46736-1 | water | | 05/15/13 | | X | X | | | | | | | | | |
| VD-9 | 440-46736-2 | water | FD12* | 05/15/13 | X | X | X | | | | | | | | | |
| M-21 | 440-46736-3 | water | | 05/15/13 | X | X | X | | | | | | | | | |

^{*}FD12 = Sample VD-9 is the field duplicate of parent sample M-13 (from SDG 440-46744-1).

| SDG#: 440-46744-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 30094A |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|-----------------|--|--|--|----------------|--------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | ytical Me | hod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | CrVI (218.6) | | | | | |
| M-77 | 440-46744-1 | water | | 05/15/13 | X | X | X | | | | | | |
| PC-77 | 440-46744-2 | water | | 05/15/13 | | X | X | | | | | | |
| PC-74 | 440-46744-3 | water | | 05/15/13 | | X | X | | | | | | |
| M-148A | 440-46744-4 | water | | 05/15/13 | X | X | X | | | | | | |
| M-31A | 440-46744-5 | water | | 05/15/13 | X | X | X | | | | | | |
| M-141 | 440-46744-6 | water | | 05/15/13 | X | X | X | | | | | | |
| M-52 | 440-46744-7 | water | | 05/15/13 | X | X | X | | | | | | |
| M-139 | 440-46744-8 | water | | 05/15/13 | X | X | X | | | | | | |
| M-145 | 440-46744-9 | water | | 05/15/13 | X | X | X | | | | | | |
| M-11 | 440-46744-10 | water | | 05/15/13 | X | X | X | X | | | | | |
| M-13 | 440-46744-11 | water | FD12* | 05/15/13 | X | X | X | | | | | | |
| EB-4 | 440-46744-12 | water | EB | 05/15/13 | X | X | X | X | | | | | |
| M-77DUP | 440-46744-1DUP | water | DUP | 05/15/13 | | | X | | | | | | |
| M-52MS | 440-46744-7MS | water | MS | 05/15/13 | X | | | | | | | | |
| M-52MSD | 440-46744-7MSD | water | MSD | 05/15/13 | X | | | | | | | | |
| EB-4MS | 440-46744-12MS | water | MS | 05/15/13 | | X | | X | | | | | |
| EB-4MSD | 440-46744-12MSD | water | MSD | 05/15/13 | | X | | X | | | | | |

FD12* = Sample M-13 is the parent sample of field duplicate VD-9 (from SDG 440-46736-1).

| SDG#: 440-46832-1 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | | - | LDC#: 3 | 0041C |
|--------------------------|-------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|---|----------------|-------|
| Project Name: 2013 A | Annual Remedial Perform | mance Sa | mpling | | Paramet | ers/Analy | ytical Me | thod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| H-28A | 440-46832-1 | water | | 05/16/13 | X | X | X | | | | | | |
| M-6A | 440-46832-2 | water | | 05/16/13 | X | X | X | | | | | | |
| M-5A | 440-46832-3 | water | | 05/16/13 | X | X | X | | | | | | |
| M-7B | 440-46832-4 | water | | 05/16/13 | X | X | X | | | | | | |
| H-28ADUP | 440-46832-1DUP | water | DUP | 05/16/13 | | | X | | | | | | |
| M-5AMS | 440-46832-3MS | water | MS | 05/16/13 | X | | | | | | | | |
| M-5AMSD | 440-46832-3MSD | water | MSD | 05/16/13 | X | | | | | | | | |

| SDG#: 440-46840-1 | | | | V. | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0041D |
|--------------------------|-----------------------|------------|---------|-------------------|---------------|--------------------------|----------------|-----------------|--|--|--|---------|-------|
| Project Name: 2013 A | Annual Remedial Perfo | ormance Sa | mpling | | Paramet | ers/Analy | tical Me | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | CrVI (218.6) | | | | | |
| M-144 | 440-46840-1 | water | FD14 | 05/16/13 | X | X | X | | | | | | |
| M-146 | 440-46840-2 | water | FD13 | 05/16/13 | X | X | X | | | | | | |
| M-147 | 440-46840-3 | water | | 05/16/13 | X | X | X | | | | | | |
| M-137 | 440-46840-4 | water | | 05/16/13 | X | X | X | | | | | | |
| M-138 | 440-46840-5 | water | | 05/16/13 | X | X | X | | | | | | |
| M-95 | 440-46840-6 | water | | 05/16/13 | | | | X | | | | | |
| M-44 | 440-46840-7 | water | | 05/16/13 | | | | X | | | | | |
| M-12A | 440-46840-8 | water | | 05/16/13 | X | X | X | X | | | | | |
| VD-1 | 440-46840-9 | water | FD13 | 05/16/13 | X | X | X | | | | | | |
| VD-2 | 440-46840-10 | water | FD14 | 05/16/13 | X | X | X | | | | | | |
| M-38 | 440-46840-11 | water | | 05/16/13 | | | | X | | | | | |

| SDG#: 440-47272-1 | | | | V | ALIDAT | ION SA | MPLE T | ABLE | | | | LDC#: 3 | 0041E |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|-------------|------|--|--|--|----------------|-------|
| Project Name: 2013 A | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | ytical Me | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| PC-79 | 440-47272-1 | water | | 05/21/13 | X | X | X | | | | | | |
| PC-86 | 440-47272-2 | water | | 05/21/13 | X | X | X | | | | | | |
| PC-82 | 440-47272-3 | water | | 05/21/13 | | X | X | | | | | | |
| PC-58 | 440-47272-4 | water | | 05/21/13 | X | X | X | | | | | | |
| PC-56 | 440-47272-5 | water | | 05/21/13 | X | X | X | | | | | | |
| PC-60 | 440-47272-6 | water | | 05/21/13 | X | X | X | | | | | | |
| PC-62 | 440-47272-7 | water | | 05/21/13 | X | X | X | | | | | | |
| PC-59 | 440-47272-8 | water | | 05/21/13 | X | X | X | | | | | | |
| PC-68 | 440-47272-9 | water | | 05/21/13 | X | X | X | | | | | | |
| PC-79DUP | 440-47272-1DUP | water | DUP | 05/21/13 | | | X | | | | | | |
| PC-86MS | 440-47272-2MS | water | MS | 05/21/13 | X | | | | | | | | |
| PC-86MSD | 440-47272-2MSD | water | MSD | 05/21/13 | X | | | | | | | | |

| SDG#: 440-47313-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | |] | LDC#: 3 | 0041F |
|--------------------------|-------------------------|-----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|---|----------------|-------|
| Project Name: 2013 | Annual Remedial Perform | rmance Sa | mpling | | Paramet | ers/Analy | tical Met | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| PC-97 | 440-47313-1 | water | | 05/22/13 | X | X | X | | | | | | |
| PC-90 | 440-47313-2 | water | | 05/22/13 | X | X | X | | | | | | |
| PC-108 | 440-47313-3 | water | | 05/22/13 | | X | X | | | | | | |
| PC-110 | 440-47313-4 | water | | 05/22/13 | | X | X | | | | | | |
| PC-91 | 440-47313-5 | water | | 05/22/13 | X | X | X | | | | | | |
| PC-92 | 440-47313-6 | water | | 05/22/13 | X | X | X | | | | | | |
| PC-94 | 440-47313-7 | water | | 05/22/13 | X | X | X | | | | | | |
| ART-7B | 440-47313-8 | water | | 05/22/13 | X | X | X | | | | | | |
| PC-97MS | 440-47313-1MS | water | MS | 05/22/13 | X | | | | | | | | |
| PC-97MSD | 440-47313-1MSD | water | MSD | 05/22/13 | X | | | | | | | | |
| PC-97DUP | 440-47313-1DUP | water | DUP | 05/22/13 | | | X | | | | | | |

| SDG#: 440-47410-1 | | | | V. | ALIDAT | ION SA | MPLE T | ABLE | | | | L DC#: 3 | 0051D |
|--------------------------|-----------------------|----------|---------|-------------------|---------------|--------------------------|-------------|------|--|--|--|-----------------|-------|
| Project Name: 2013 A | nnual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Anal | ytical Me | hod | | | | | |
| Client ID # | Lab ID# | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| TR-2 | 440-4710-01 | water | | 05/20/13 | X | X | X | | | | | | |
| M-152 | 440-4710-02 | water | | 05/20/13 | X | X | X | | | | | | |
| M-156 | 440-4710-03 | water | | 05/20/13 | X | X | X | | | | | | |
| M-164 | 440-4710-04 | water | | 05/20/13 | X | X | X | | | | | | |
| M-162 | 440-4710-05 | water | | 05/20/13 | X | X | X | | | | | | |
| M-163 | 440-4710-06 | water | FD15 | 05/20/13 | X | X | X | | | | | | |
| M-163-FD | 440-4710-07 | water | FD15 | 05/20/13 | X | X | X | | | | | | |
| E-EB-1 | 440-4710-08 | water | EB | 05/20/13 | X | X | X | | | | | | |
| M-161 | 440-4710-09 | water | | 05/20/13 | X | X | X | | | | | | |
| M-150 | 440-4710-10 | water | | 05/21/13 | X | X | X | | | | | | |
| M-154 | 440-4710-11 | water | | 05/21/13 | X | X | X | | | | | | |
| TR-3 | 440-4710-12 | water | | 05/21/13 | X | X | X | | | | | | |
| TR-1 | 440-4710-13 | water | | 05/21/13 | X | X | X | | | | | | |
| TR-4 | 440-4710-14 | water | | 05/21/13 | X | X | X | | | | | | |
| M-120 | 440-4710-15 | water | | 05/21/13 | X | X | X | | | | | | |
| M-121 | 440-4710-16 | water | | 05/21/13 | X | X | X | | | | | | |
| M-118 | 440-4710-17 | water | | 05/21/13 | X | X | X | | | | | | |
| M-117 | 440-4710-18 | water | | 05/21/13 | X | X | X | | | | | | |
| TR-12 | 440-4710-19 | water | | 05/22/13 | X | X | X | | | | | | |
| TR-6 | 440-4710-20 | water | | 05/22/13 | X | X | X | | | | | | |

| SDG#: 440-47410-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | |] | L DC#: 3 | 0051D |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|--|---|---|---|---|-----------------|-------|
| Project Name: 2013 Ar | nnual Remedial Perforr | nance Sa | mpling | | Paramet | ers/Anal | ytical Met | hod | | T | ı | T | | T | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | | | |
| TR-5 | 440-4710-21 | water | | 05/22/13 | X | X | X | | | | | | | | |
| M-155 | 440-4710-22 | water | | 05/22/13 | X | X | X | | | | | | | | |
| M-151 | 440-4710-23 | water | | 05/22/13 | X | X | X | | | | | | | | |
| M-165 | 440-4710-24 | water | | 05/22/13 | X | X | X | | | | | | | | |
| M-182 | 440-4710-25 | water | | 05/22/13 | X | X | X | | | | | | | | |
| M-181 | 440-4710-26 | water | | 05/22/13 | X | X | X | | | | | | | | |
| E-EB-2 | 440-4710-27 | water | EB | 05/22/13 | X | X | X | | | | | | | | |
| TR-11 | 440-4710-28 | water | FD16 | 05/22/13 | X | X | X | | | | | | | | |
| TR-11-FD | 440-4710-29 | water | FD16 | 05/22/13 | X | X | X | | | | | | | | |
| E-EB-1MS | 440-4710-08MS | water | MS | 05/20/13 | X | | | | | | | | | | |
| E-EB-1MSD | 440-4710-08MSD | water | MSD | 05/20/13 | X | | | | | | | | | | |
| M-117MS | 440-4710-18MS | water | MS | 05/21/13 | X | | | | | | | | | | |
| M-117MSD | 440-4710-18MSD | water | MSD | 05/21/13 | X | | | | | | | | | | |
| TR-11MS | 440-4710-28MS | water | MS | 05/22/13 | X | | | | | | | | | | |
| TR-11MSD | 440-4710-28MSD | water | MSD | 05/22/13 | X | | | | | | | | | | |
| M-164DUP | 440-4710-04DUP | water | DUP | 05/20/13 | | | X | | | | | | | | |
| TR-6DUP | 440-4710-20DUP | water | DUP | 05/22/13 | | | X | | | | | | | | |

| SDG#: 440-47414-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0094B |
|--------------------------|-------------------------|----------|---------|-------------------|---------------|--------------------------|-------------|------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perforn | nance Sa | mpling | | Paramet | ers/Analy | ytical Met | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| PC-122 | 440-47414-1 | water | | 05/23/13 | X | X | X | | | | | | |
| PC-53 | 440-47414-2 | water | | 05/23/13 | X | X | X | | | | | | |
| MW-K5 | 440-47414-3 | water | | 05/23/13 | X | X | X | | | | | | |
| ARP-7 | 440-47414-4 | water | | 05/23/13 | X | X | X | | | | | | |
| ARP-6B | 440-47414-5 | water | | 05/23/13 | X | X | X | | | | | | |
| ARP-5A | 440-47414-6 | water | | 05/23/13 | X | X | X | | | | | | |
| ARP-4A | 440-47414-7 | water | | 05/23/13 | X | X | X | | | | | | |
| ARP-3A | 440-47414-8 | water | | 05/23/13 | X | X | X | | | | | | |
| ARP-2A | 440-47414-9 | water | | 05/23/13 | X | X | X | | | | | | |
| PC-101R | 440-47414-10 | water | | 05/23/13 | X | X | X | | | | | | |
| PC-18 | 440-47414-11 | water | | 05/23/13 | X | X | X | | | | | | |
| PC-122DUP | 440-47414-1DUP | water | DUP | 05/23/13 | | | X | _ | | | | | |
| ARP-5AMS | 440-47414-6MS | water | MS | 05/23/13 | X | | | | | | | | _ |
| ARP-5AMSD | 440-47414-6MSD | water | MSD | 05/23/13 | X | | | _ | | | | | |

| SDG#: 440-47431-1 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | | | LDC#: 3 | 0051E |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|-------------|------|--|--|--|----------------|-------|
| Project Name: 2013 Ar | nnual Remedial Perforr | nance Sa | mpling | | Paramet | ers/Analy | ytical Me | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| PC-55 | 440-47431-1 | water | | 05/23/13 | X | X | X | | | | | | |
| ARP-1 | 440-47431-2 | water | | 05/23/13 | X | X | X | | | | | | |
| PC-103 | 440-47431-3 | water | | 05/23/13 | X | X | X | | | | | | |
| PC-98R | 440-47431-4 | water | | 05/23/13 | X | X | X | | | | | | |

| SDG#: 440-47528-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | | LDC#: 3 | 30041G |
|--------------------------|------------------------|----------|---------|-------------------|---------------|--------------------------|----------------|------|---|---|---|--|----------------|--------|
| Project Name: 2013 A | nnual Remedial Perforr | nance Sa | mpling | | Paramet | ers/Anal | ytical Met | hod | _ | _ | 1 | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | | |
| M-130 | 440-47528-1 | water | | 05/23/13 | X | X | X | | | | | | | |
| CLD1-R | 440-47528-2 | water | | 05/23/13 | X | X | X | | | | | | | |
| M-129 | 440-47528-3 | water | | 05/23/13 | X | X | X | | | | | | | |
| TR-10 | 440-47528-4 | water | | 05/23/13 | X | X | X | | | | | | | |
| TR-9 | 440-47528-5 | water | | 05/23/13 | X | X | X | | | | | | | |
| M-103 | 440-47528-6 | water | | 05/23/13 | X | X | X | | | | | | | |
| TR-8 | 440-47528-7 | water | | 05/23/13 | X | X | X | | | | | | | |
| TR-7 | 440-47528-8 | water | | 05/23/13 | X | X | X | | | | | | | |
| M-153 | 440-47528-9 | water | | 05/23/13 | X | X | X | | | | | | | |
| E-EB-4 | 440-47528-10 | water | EB | 05/23/13 | X | X | X | | | | | | | |
| M-149 | 440-47528-11 | water | | 05/23/13 | X | X | X | | | | | | | |
| M-186 | 440-47528-12 | water | FD17 | 05/23/13 | X | X | X | | | | | | | |
| M-186-FD | 440-47528-13 | water | FD17 | 05/23/13 | X | X | X | | | | | | | |
| M-130MS | 440-47528-1MS | water | MS | 05/23/13 | X | | | | | | | | | |
| M-130MSD | 440-47528-1MSD | water | MSD | 05/23/13 | X | | | | | | | | | |

| SDG#: 440-48113-1 | | | | V | ALIDAT | TION SA | MPLE T | ABLE | | | | LDC#: 3 | 0094C |
|--------------------------|------------------------|----------|---------|-------------------|--------------------------|----------------|-----------|------|--|--|--|----------------|-------|
| Project Name: 2013 Ar | nnual Remedial Perforn | nance Sa | mpling | | Paramet | ers/Analy | tical Met | thod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C) | | | | | | | |
| ART-1 | 440-48113-1 | water | | 06/03/13 | X | X | | | | | | | |
| ART-2 | 440-48113-2 | water | | 06/03/13 | X | X | | | | | | | |
| ART-3 | 440-48113-3 | water | | 06/03/13 | X | X | | | | | | | |
| ART-4 | 440-48113-4 | water | | 06/03/13 | X | X | | | | | | | |
| ART-6 | 440-48113-5 | water | | 06/03/13 | X | X | | | | | | | |
| ART-7 | 440-48113-6 | water | | 06/03/13 | X | X | | | | | | | |
| ART-8 | 440-48113-7 | water | | 06/03/13 | X | X | | | | | | | |
| ART-9 | 440-48113-8 | water | | 06/03/13 | X | X | | | | | | | |
| PC-99R2/R3 | 440-48113-9 | water | | 06/03/13 | X | X | | | | | | | |
| PC-115R | 440-48113-10 | water | | 06/03/13 | X | X | | | | | | | |
| PC-116R | 440-48113-11 | water | | 06/03/13 | X | X | | | | | | | |
| PC-117 | 440-48113-12 | water | | 06/03/13 | X | X | | | | | | | |
| PC-118 | 440-48113-13 | water | | 06/03/13 | X | X | | | | | | | |
| PC-119 | 440-48113-14 | water | | 06/03/13 | X | X | | | | | | | |
| PC-120 | 440-48113-15 | water | | 06/03/13 | X | X | | | | | | | |
| PC-121 | 440-48113-16 | water | | 06/03/13 | X | X | | | | | | | |
| PC-133 | 440-48113-17 | water | | 06/03/13 | X | X | | | | | | | |
| ART-1DUP | 440-48113-1DUP | water | DUP | 06/03/13 | | X | | | | | | | |

| SDG#: 440-49007-1 | | | | V. | ALIDAT | TON SA | MPLE T | TABLE | | | | LDC#: 3 | 0041H |
|-----------------------------|-----------------------|----------|---------|-------------------|--------------------------|-------------|-----------|-------|--|--|--|----------------|-------|
| Project Name: 2013 A | nnual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Anal | ytical Me | thod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C) | | | | | | | |
| PC-86 | 440-49007-1 | water | | 06/10/13 | X | X | | | | | | | |
| PC-90 | 440-49007-2 | water | | 06/10/13 | X | X | | | | | | | |
| PC-91 | 440-49007-3 | water | | 06/10/13 | X | X | | | | | | | |
| PC-97 | 440-49007-4 | water | | 06/10/13 | X | X | | | | | | | |
| PC-18 | 440-49007-5 | water | | 06/10/13 | X | X | | | | | | | |
| PC-55 | 440-49007-6 | water | | 06/10/13 | X | X | | | | | | | |
| PC-101R | 440-49007-7 | water | | 06/11/13 | X | X | | | | | | | |
| ARP-1 | 440-49007-8 | water | | 06/11/13 | X | X | | | | | | | |
| ARP-2A | 440-49007-9 | water | | 06/11/13 | X | X | | | | | | | |
| ARP-3A | 440-49007-10 | water | | 06/11/13 | X | X | | | | | | | |
| ARP-4A | 440-49007-11 | water | | 06/11/13 | X | X | | | | | | | |
| ARP-5A | 440-49007-12 | water | | 06/11/13 | X | X | | | | | | | |
| ARP-6B | 440-49007-13 | water | | 06/11/13 | X | X | | | | | | | |
| ARP-7 | 440-49007-14 | water | | 06/11/13 | X | X | | | | | | | |
| PC-53 | 440-49007-15 | water | | 06/11/13 | X | X | | | | | | | |
| PC-103 | 440-49007-16 | water | | 06/11/13 | X | X | | | | | | | |
| MW-K5 | 440-49007-17 | water | | 06/11/13 | X | X | | | | | | | |
| M-83 | 440-49007-18 | water | | 06/11/13 | X | X | | | | | | | |
| PC-98R | 440-49007-19 | water | | 06/11/13 | X | X | | | | | | | |
| PC-58 | 440-49007-20 | water | | 06/10/13 | X | X | | | | | | | |

| SDG#: 440-49007-1 | | | | V | ALIDAT | TON SA | MPLE T | ABLE | | | | LDC#: 3 | 0041H |
|--------------------------|------------------------|----------|---------|-------------------|--------------------------|----------------|----------|------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfor | mance Sa | mpling | | Paramet | ers/Analy | tical Me | thod | | | | | |
| Client ID# | Lab ID # | Matrix | QC Type | Date Collected | CLO ₄ (314.0) | TDS (2540C) | | | | | | | |
| PC-56 | 440-49007-21 | water | | 06/10/13 | X | X | | | | | | | |
| PC-60 | 440-49007-22 | water | | 06/10/13 | X | X | | | | | | | |
| PC-59 | 440-49007-23 | water | | 06/10/13 | X | X | | | | | | | |
| PC-62 | 440-49007-24 | water | | 06/10/13 | X | X | | | | | | | |
| PC-68 | 440-49007-25 | water | | 06/10/13 | X | X | | | | | | | |
| PC-122 | 440-49007-26 | water | | 06/11/13 | X | X | | | | | | | |
| EB-M1 | 440-49007-27 | water | EB | 06/11/13 | X | X | | | | | | | |
| PC-86DUP | 440-49007-1DUP | water | DUP | 06/10/13 | | X | | | | | | | |

| SDG#: 440-50221-1 | | | | V. | ALIDAT | TON SA | MPLE T | ABLE | | | | LDC#: 3 | 0051F |
|--------------------------|-----------------------|-----------|---------|-------------------|---------------|--------------------------|----------------|------|--|--|--|----------------|-------|
| Project Name: 2013 | Annual Remedial Perfo | rmance Sa | mpling | | Paramet | ers/Analy | ytical Me | hod | | | | | |
| Client ID # | Lab ID # | Matrix | QC Type | Date Collected | Cr (200.7) | CLO ₄ (314.0) | TDS (2540C) | | | | | | |
| I-AA | 440-50221-1 | water | | 06/25/13 | X | X | X | | | | | | |
| I-AB | 440-50221-2 | water | | 06/25/13 | X | X | X | | | | | | |
| I-Y | 440-50221-3 | water | | 06/25/13 | X | X | X | | | | | | |
| M-140 | 440-50221-4 | water | | 06/25/13 | X | X | X | | | | | | |
| I-X | 440-50221-5 | water | | 06/25/13 | X | X | X | | | | | | |
| I-W | 440-50221-6 | water | | 06/25/13 | X | X | X | | | | | | |
| I-AADUP | 440-50221-1DUP | water | DUP | 06/25/13 | | | X | | | | | | |
| I-AAMS | 440-50221-1MS | water | MS | 06/25/13 | X | | | | | | | | |
| I-AAMSD | 440-50221-1MSD | water | MSD | 06/25/13 | X | | | | | | | | |

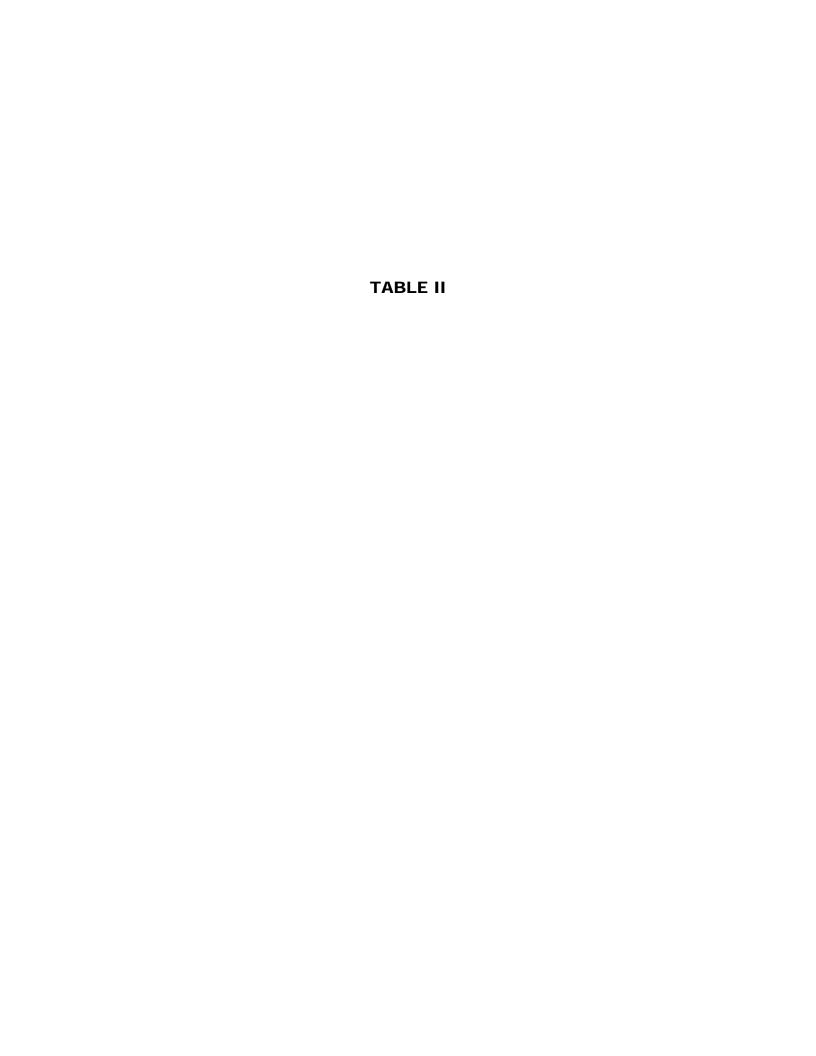


Table II. Qualification Codes and Definitions

| Reason Code | Explanation |
|-------------|---|
| a | qualified due to low abundance (radiochemical activity) |
| be | qualified due to equipment blank contamination |
| bf | qualified due to field blank contamination |
| bl | qualified due to lab blank contamination |
| bt | qualified due to trip blank contamination |
| bp | qualified due to pump blank contamination (wells w/o dedicated pumps, when contamination is detected in the Pump Blk) |
| br | qualified due to filter blank contamination (aqueous Hexavalent Chromium and Dissolved sample fractions) |
| с | qualified due to calibration problems |
| ср | qualified due to insufficient ingrowth (radiochemical only) |
| dc | duel column confirmation %D exceeded |
| e | concentration exceeded the calibration range |
| fd | qualified due to field duplicate imprecision |
| h | qualified due to holding time exceedance |
| i | qualified due to internal standard areas |
| k | qualified as Estimated Maximum Possible Concentrations (dioxins and PCB congeners) |
| 1 | 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 |
| 0 | other |
| p | qualified as a false positive due to contamination during shipping |
| pН | sample preservation not within acceptance range |
| q | qualified due to quantitation problem |
| S | qualified due to surrogate recoveries |
| sd | serial dilution did not meet control criteria |
| sp | detected value reported >SQL <pql< th=""></pql<> |
| st | sample receipt temperature exceeded |
| t | qualified due to elevated helium tracer concentrations |
| vh | volatile headspace detected in aqueous sample containers submitted for VOC analysis |
| Х | qualified due to low % solids |
| Z | qualified due to ICS results |
| | |

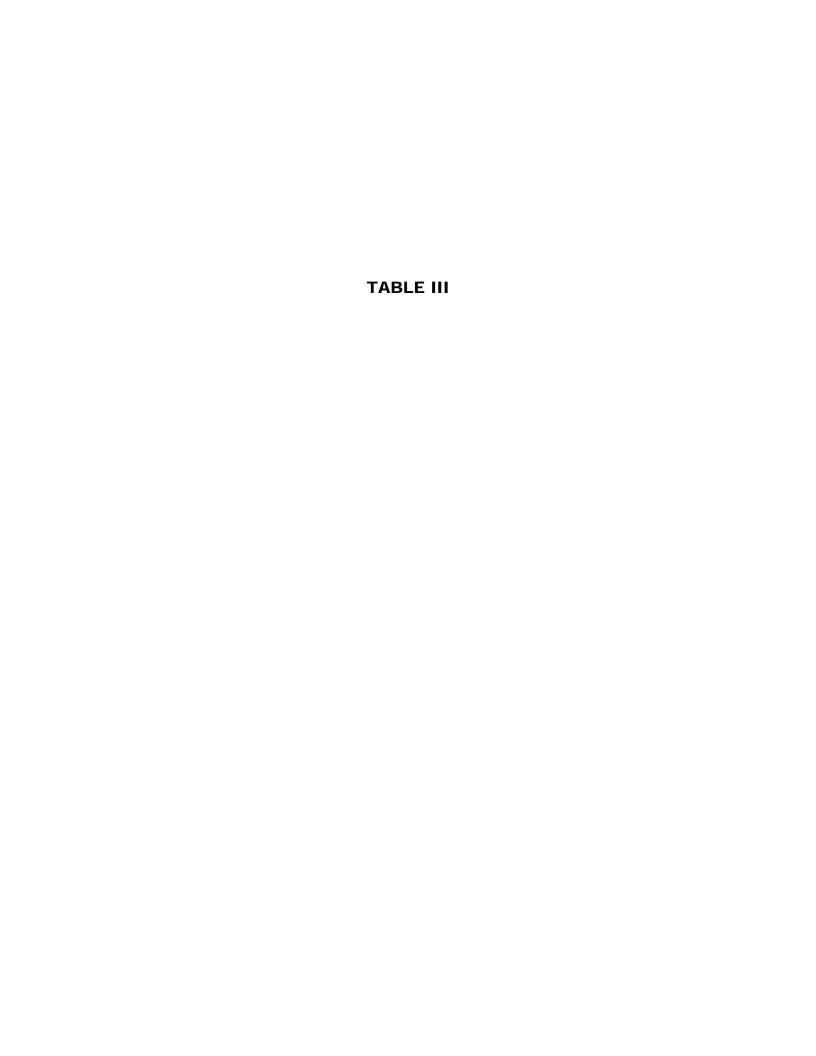


Table III. Overall Qualified Results

| SDG | Client Sample ID | Sample Date | Method | Client Analyte ID | Analyte | Lab Result | Lab Qualifier | PQL | Units | Validator Qualifier | | Reason Code Definition | Qualification Finding |
|-------------|---------------------|-------------|---------------|----------------------|-----------------------------|---------------|------------------|-------|-------|------------------------|----|---------------------------|-----------------------|
| 440-46072-1 | M-23 | 05/09/13 | EPA 314.0 | 14797-73-0 | Perchlorate | 210,000 | | 9,500 | ug/l | J | fd | Field Duplicate | 32 % |
| 440-46077-1 | VD-6 | 05/09/13 | EPA 314.1 | 14797-73-0 | Perchlorate | 290,000 | | 9,500 | ug/l | J | fd | Field Duplicate | 32 % |
| 440-47528-1 | M-153 | 05/23/13 | EPA 314.2 | 14797-73-0 | Perchlorate | 27 | | 4.8 | ug/l | J+ | be | Equipment Blank | 18 ug/L |
| 440-47528-1 | TR-8 | 05/23/13 | EPA 314.3 | 14797-73-0 | Perchlorate | 95 | | 4.8 | ug/l | J+ | be | Equipment Blank | 18 ug/L |
| 440-47528-1 | TR-9 | 05/23/13 | EPA 314.4 | 14797-73-0 | Perchlorate | 2.4 | | 1.9 | ug/l | J+ | be | Equipment Blank | 18 ug/L |
| 440-46840-1 | M-95 | 05/16/13 | EPA 218.6 | 18540-29-9 | Hexavalent chromium (Cr VI) | 630 | Н | 5.0 | ug/l | J- | h | Holding Time | 24.25 Hours |
| 423999 | FB-1 | 02/04/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | | u | 0.005 | mg/l | UJ | h | Holding Time | 28.75 Hours |
| 423999 | M-44 | 02/04/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | 1.0 | | 0.05 | mg/l | J- | h | Holding Time | 29.25 Hours |
| 423999 | M-95 | 02/04/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | 0.68 | | 0.05 | mg/l | J- | h | Holding Time | 30.25 Hours |
| 423999 | VD-3 | 02/04/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | 0.69 | | 0.1 | mg/l | J- | h | Holding Time | 30.25 Hours |
| 424392 | EB-1 | 02/05/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | | u | 0.005 | mg/l | R | h | Holding Time | 3 Days |
| 424394 | EB-2 | 02/06/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | | u | 0.005 | mg/l | R | h | Holding Time | 51.75 Hours |
| 424394 | M-10 | 02/06/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | 0.042 | | 0.005 | mg/l | J- | h | Holding Time | 49.75 Hours |
| 424394 | M-11 | 02/06/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | 1.7 | | 0.5 | mg/l | J- | h | Holding Time | 51 Hours |
| 424394 | M-12A | 02/06/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | 8.4 | | 0.5 | mg/l | J- | h | Holding Time | 51.75 Hours |
| 424394 | M-37 | 02/06/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | | u | 0.005 | mg/l | R | h | Holding Time | 49.5 Hours |
| 424394 | VD-4 | 02/06/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | 1.4 | | 0.5 | mg/l | J- | h | Holding Time | 51.25 Hours |
| 424556 | M-36 | 02/07/13 | SW-7196A | 18540-29-9 | Hexavalent chromium (Cr VI) | 25 | | 0.5 | mg/l | J- | h | Holding Time | 4 Days |
| 424010 | I-AR | 02/04/13 | SM2540C/160.1 | 10-33-3 | Total Dissolved Solid (TDS) | 5,900 | | 10 | mg/l | J- | h | Holding Time | 29 Days |
| 424392 | M-25 | 02/05/13 | SM2540C/160.1 | 10-33-3 | Total Dissolved Solid (TDS) | 8,100 | | 10 | mg/l | J- | h | Holding Time | 14 Days |
| 424392 | VD-2 | 02/05/13 | SM2540C/160.1 | 10-33-3 | Total Dissolved Solid (TDS) | 14,000 | | 10 | mg/l | J- | h | Holding Time | 14 Days |

ATTACHMENT A

Metals Data Validation Report

Chromium by EPA SW 846 Method 6010 and EPA Method 200.7

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

ICP-MS was not utilized in these SDGs.

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met for samples on which a Stage 4 review was performed.

Calibration data were not evaluated for the samples reviewed by Stage 2A criteria.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No chromium was found in the initial, continuing and preparation blanks.

Samples EB-1 (from SDGs 424392 and 440-46009-1), EB-2 (from SDGs 424394 and 440-46077-1), EB-3 (from SDG 440-46454-1), EB-4 (from SDG 440-46744-1), E-EB-1 (from SDG 440-47410-1), E-EB-2 (from SDG 440-47410-1), and E-EB-4 (from SDG 440-47528-1) were identified as equipment blanks. No chromium was found with the following exceptions:

| SDG | Blank ID | Sampling Date | Analyte | Concentration | Associated Samples |
|-------------|----------|------------------|----------|---------------|--|
| 440-46009-1 | EB-1 | 5/8/13 | Chromium | 0.0029 mg/L | PC-54 M-95 PC-21A M-48A VD-3 VD-4 VD-5 M-44 |

Samples FB-1 (from SDGs 423999 and 440-45716-1) and FB-2 (from SDG 440-46454-1) were identified as field blanks. No chromium was found.

Sample concentrations were compared to concentrations detected in the field blanks as required by the QAPP. No sample data was qualified.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis and criteria were met for samples on which a Stage 4 review was performed.

ICP Interference check sample analysis data were not evaluated for the samples reviewed by Stage 2A criteria.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Internal Standards (ICP-MS)

ICP-MS was not utilized in these SDGs.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in these SDGs.

XI. ICP Serial Dilution

ICP serial dilution was not performed for these SDGs.

XII. Sample Result Verification

All sample result verifications were acceptable for samples on which a Stage 4 review was performed. Raw data were not evaluated for the samples reviewed by Stage 2A criteria.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples PC-150 and VD-1 (from SDG 424392) and samples M-66 and VD-2 (from SDG 424392), samples M-95 and VD-3 (from SDG 423999), samples M-11 and VD-4 (from SDG 424394), samples M-146 and VD-1 (from SDG 440-46840-1), samples M-144 and VD-2 (from SDG 440-46840-1), samples M-48A and VD-3 (from SDG 440-46009-1), samples PC-21A and VD-4 (from SDG 440-46009-1), samples PC-37 (from SDG 440-45976-1) and VD-5 (from SDG 440-46009-1), samples VD-6 (from SDG 440-46077-1) and M-23 (from SDG 440-46072-1), samples M-65 and VD-7 (from SDG 440-46077-1), samples M-35 (from SDG 440-46367-1) and VD-8 (from SDG 440-46598-1), samples VD-9 (from SDG 440-46736-1) and M-13 (from SDG 440-46744-1), samples VD-10 (from SDG 440-46454-1) and M-10 (from SDG 440-46459-1), samples M-163 and M-163-FD (from SDG 440-47410-1), samples TR-11 and TR-11-FD (from SDG 440-47410-1), and samples M-186 and M-186-FD (from SDG 440-47528-1) were identified as field duplicates. No chromium was detected in any of the samples with the following exceptions:

| | | Concentrat | ion (mg/L) | | | | |
|--------|----------|------------|------------|-----------------|------------------------|------|--------|
| SDG | Analyte | PC-150 | VD-1 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 424392 | Chromium | 0.22 | 0.22 | 0 (≤30) | - | - | - |

| | | Concentrat | ion (mg/L) | | | | |
|--------|----------|------------|------------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-66 | VD-2 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 424392 | Chromium | 26 | 26 | 0 (≤30) | - | - | - |

| | | Concentration (mg/L) | | | | | |
|--------|----------|----------------------|------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-95 | VD-3 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 423999 | Chromium | 0.69 | 0.68 | 1 (≤30) | - | - | - |

| | | Concentrat | ntration (mg/L) | | | | | |
|--------|----------|------------|-----------------|-----------------|------------------------|------|--------|--|
| SDG | Analyte | M-11 | VD-4 | RPD (Limits) | Difference (Limits) | Flag | A or P | |
| 424394 | Chromium | 1.7 | 1.7 | 0 (≤30) | - | - | - | |

| | | Concentrat | ncentration (mg/L) | | | | |
|-------------|----------|------------|--------------------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-146 | VD-1 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46840-1 | Chromium | 0.093 | 0.11 | - | 0.017 (≤0.025) | - | - |

3

| | | Concentra | ation (mg/L) | | | | |
|-----------------------------|----------|--------------------|--------------------|-----------------|------------------------|------|-------------|
| SDG | Analyte | M-144 | VD-2 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46840-1 | Chromium | 0.058 | 0.065 | - | 0.007 (≤0.025) | - | - |
| | | _ | | | | | |
| SDG | Analyte | Concentra M-48A | vD-3 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46009-1 | Chromium | 1.7 | 1.7 | 0 (≤30) | - | - | - |
| | | | | 1 | | | |
| | | Concentra | ation (mg/L) | RPD | Difference | | |
| SDG | Analyte | PC-21A | VD-4 | (Limits) | (Limits) | Flag | A or P |
| 440-46009-1 | Chromium | 0.18 | 0.18 | 0 (≤30) | - | - | - |
| | <u> </u> | | | | <u> </u> | | |
| SDG | Analyte | Concentrat PC-37 | ion (mg/L) VD-5 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-45976-1/ 440-46009-1 | Chromium | 0.21 | 0.18 | 15 (≤30) | - | - | - |
| | | | | | | | |
| | | Concentra | tion (mg/L) | ▋ ┃ | | | |
| SDG | Analyte | VD-6 | M-23 | RPD (Limits) | Difference | Flag | A or P |
| 440-46077-1/ 440-46072-1 | Chromium | 0.45 | 0.42 | 7 (≤30) | - | - | - |
| | 1 | | | | | | |
| | | Concentra | tion (mg/L) | RPD | | | |
| SDG | Analyte | M-65 | VD-7 | (Limits) | Difference | Flag | A or P |
| 440-46077-1 | Chromium | 24 | 25 | 4 (≤30) | - | - | - |
| | 1 | | | <u> </u> | Γ | | <u> </u> |
| | | Concentra | tion (mg/L) | RPD | Difference | | |
| SDG | Analyte | M-35 | VD-8 | (Limits) | (Limits) | Flag | A or P |
| 440-46367-1/ 440-46589-1 | Chromium | 4.3 | 4.6 | 7 (≤30) | - | - | - |

| | | Concentration (mg/L) | | | | | |
|-----------------------------|----------|----------------------|------|-----------------|------------------------|------|--------|
| SDG | Analyte | VD-9 | M-13 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46736-1/ 440-46744-1 | Chromium | 0.64 | 0.64 | 0 (≤30) | - | - | - |

| | | Concentration (mg/L) | | | | | |
|-----------------------------|----------|----------------------|-------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-10 | VD-10 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46454-1/ 440-46459-1 | Chromium | 0.52 | 0.59 | 13 (≤30) | - | - | - |

| | | Concentration (mg/L) | | | | | | |
|-------------|----------|----------------------|----------|-----------------|------------------------|------|--------|--|
| SDG | Analyte | M-163 | M-163-FD | RPD (Limits) | Difference (Limits) | Flag | A or P | |
| 440-47410-1 | Chromium | 0.029 | 0.026 | 11 (≤30) | - | - | - | |

| | Concentration (mg/L) | | Concentration (mg/L) | | | | |
|-------------|----------------------|-------|----------------------|-----------------|------------------------|------|--------|
| SDG | Analyte | TR-11 | TR-11-FD | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-47410-1 | Chromium | 0.015 | 0.015 | - | 0 (≤0.005) | - | - |

| | Concentration (mg/L) | | Concentration (mg/L) | | | | |
|-------------|----------------------|-------|----------------------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-186 | M-186-FD | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-47528-1 | Chromium | 4.3 | 4.5 | 5 (≤30) | - | - | - |

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Chromium - Data Qualification Summary - SDGs 420318, 423999, 424008, 424010, 424394, 424439, 424556, 440-45612-1, 440-45619-1, 440-45623-1, 440-45716-1, 440-45723-1, 440-45890-1, 440-45976-1, 440-46077-1, 440-46367-1, 440-46369-1, 440-46454-1, 440-46457-1, 440-46459-1, 440-46598-1, 440-46736-1, 440-46832-1, 440-46840-1, 440-47272-1, 440-47313-1, 440-47528-1, 440-46744-1, 440-47414-1, 440-45624-1, 440-46009-1, 440-46072-1, 440-47410-1, 440-47431-1, 440-50221-1, 424392

No Sample Data Qualified in these SDGs

2013 Annual Remedial Performance Sampling

Chromium - Laboratory Blank Data Qualification Summary - SDGs 420318, 423999, 424008, 424010, 424394, 424439, 424556, 440-45612-1, 440-45619-1, 440-45623-1, 440-45716-1, 440-45723-1, 440-45890-1, 440-45976-1, 440-46077-1, 440-46367-1, 440-46369-1, 440-46454-1, 440-46457-1, 440-46459-1, 440-46598-1, 440-46736-1, 440-46832-1, 440-46840-1, 440-47272-1, 440-47313-1, 440-47528-1, 440-46744-1, 440-47414-1, 440-45624-1, 440-46009-1, 440-46072-1, 440-47410-1, 440-47431-1, 440-50221-1, 424392

No Sample Data Qualified in these SDGs

2013 Annual Remedial Performance Sampling

Chromium - Field Blank Data Qualification Summary - SDGs 420318, 423999, 424008, 424010, 424394, 424439, 424556, 440-45612-1, 440-45619-1, 440-45623-1, 440-45716-1, 440-45723-1, 440-45890-1, 440-45976-1, 440-46077-1, 440-46367-1, 440-46369-1, 440-46598-1, 440-46736-1, 440-46832-1, 440-46840-1, 440-47272-1, 440-47313-1, 440-47528-1, 440-46744-1, 440-47414-1, 440-45624-1, 440-46009-1, 440-46072-1, 440-47410-1, 440-47431-1, 440-50221-1, 424392

No Sample Data Qualified in these SDGs

ATTACHMENT B

Wet Chemistry Data Validation Report

Hexavalent Chromium by EPA SW 846 Method 7196 and EPA Method 218.6 Perchlorate by EPA Method 314.0 Total Dissolved Solids by Standard Method 2540C and EPA Method 160.1

I. Technical Holding Times

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

| SDG | Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|-------------|-----------------------------------|------------------------|--|---|--|--------|
| 423999 | M-95 VD-3 VD-3MS VD-3MSD | Hexavalent chromium | 30.25 hours | 24 hours | J- (all detects) UJ (all non-detects) | Р |
| 423999 | M-44 | Hexavalent chromium | 29.25 hours | 24 hours | J- (all detects) UJ (all non-detects) | Р |
| 423999 | FB-1 | Hexavalent chromium | 28.75 hours | 24 hours | J- (all detects) UJ (all non-detects) | Р |
| 424010 | I-AR | Total dissolved solids | 29 days | 7 days | J- (all detects) R (all non-detects) | Р |
| 424394 | M-12A EB-2 | Hexavalent chromium | 51.75 hours | 24 hours | J- (all detects) R (all non-detects) | Р |
| 424394 | M-11 M-11MS M-11MSD | Hexavalent chromium | 51 hours | 24 hours | J- (all detects) R (all non-detects) | Р |
| 424394 | M-10 | Hexavalent chromium | 49.75 hours | 24 hours | J- (all detects) R (all non-detects) | Р |
| 424394 | VD-4 | Hexavalent chromium | 51.25 hours | 24 hours | J- (all detects) R (all non-detects) | Р |
| 424394 | M-37 | Hexavalent chromium | 49.5 hours | 24 hours | J- (all detects) R (all non-detects) | Р |
| 424556 | M-36 | Hexavalent chromium | 4 days | 24 hours | J- (all detects) R (all non-detects) | Р |
| 440-46840-1 | M-95 | Hexavalent chromium | 24.25 hours | 24 hours | J- (all detects) UJ (all non-detects) | Р |
| 424392 | EB-1 | Hexavalent chromium | 3 days | 24 hours | J- (all detects) R (all non-detects) | Р |
| 424392 | M-25 VD-2 | Total dissolved solids | 14 days | 7 days | J- (all detects) UJ (all non-detects) | Р |

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The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met for samples on which a Stage 4 review was performed.

Initial calibration data were not evaluated for the samples reviewed by Stage 2A criteria.

III. Continuing Calibration

Calibration verification frequency and analysis criteria were met for samples on which a Stage 4 review was performed.

Calibration verification data were not evaluated for the samples reviewed by Stage 2A criteria.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

Samples EB-1 (from SDGs 424392 and 440-46009-1), EB-2 (from SDGs 424394 and 440-46077-1), EB-3 (from SDG 440-46454-1), EB-4 (from SDG 440-46744-1), E-EB-1 (from SDG 440-47410-1), E-EB-2 (from SDG 440-47410-1), E-EB-4 (from SDG 440-47528-1), and EB-M1 (from SDG 440-49007-1) were identified as equipment blanks. No contaminant concentrations were found with the following exceptions:

| SDG | Blank ID | Sampling Date | Analyte | Concentration | Associated Samples |
|-------------|----------|------------------|-------------|---------------|--|
| 440-46009-1 | EB-1 | 5/8/13 | Perchlorate | 6.2 ug/L | PC-54 M-95 PC-21A M-48A VD-3 VD-4 VD-5 M-44 |

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| SDG | Blank ID | Sampling Date | Analyte | Concentration | Associated Samples |
|-------------|----------|------------------|---------------------------------------|--------------------|--|
| 424392 | EB-1 | 2/5/13 | Perchlorate | 38 ug/L | PC-135A PC-136 PC-144 PC-148 PC-149 PC-150 M-64 M-65 M-66 M-79 M-69 M-135 M-131 M-57A M-37 M-25 VD-1 |
| 424394 | EB-2 | 2/6/13 | Perchlorate | 6.6 ug/L | M-97 I-V I-K I-J I-Z I-I M-31A M-52 M-35 M-19 M-68 M-67 M-74 M-73 M-12A M-11 M-10 VD-4 |
| 440-46077-1 | EB-2 | 5/9/13 | Perchlorate | 100 ug/L | M-92 M-97 M-64 M-65 M-66 M-79 M-69 I-V VD-6 VD-7 |
| 440-46077-1 | EB-2 | 5/9/13 | Hexavalent chromium | 0.76 ug/L | No associated samples in this SDG |
| 440-46454-1 | EB-3 | 5/14/13 | Perchlorate Total dissolved solids | 21 ug/L 16 mg/L | M-38 H-11 M-125 M-142 M-36 VD-10 |
| 440-46454-1 | EB-3 | 5/14/13 | Hexavalent chromium | 0.30 ug/L | M-36 VD-10 |

| SDG | Blank ID | Sampling Date | Analyte | Concentration | Associated Samples |
|-------------|----------|------------------|---------------------------------------|---------------------|--|
| 440-46744-1 | EB-4 | 5/15/13 | Perchlorate Total dissolved solids | 4.8 ug/L 20 mg/L | M-77 PC-77 PC-74 M-148A M-31A M-141 M-52 M-139 M-145 M-11 |
| 440-47528-1 | E-EB-4 | 5/23/13 | Perchlorate | 18 ug/L | M-130 CLD1-R M-129 TR-10 TR-9 M-103 TR-8 TR-7 M-153 M-149 M-186 M-186-FD |
| 440-49007-1 | EB-M1 | 6/11/13 | Perchlorate | 11 ug/L | PC-86 PC-90 PC-91 PC-97 PC-18 PC-55 PC-101R ARP-1 ARP-2A ARP-3A ARP-4A ARP-5A ARP-6B ARP-7 PC-53 PC-103 MW-K5 M-83 PC-98R PC-58 PC-56 PC-60 PC-59 PC-62 PC-62 PC-68 PC-122 |

Samples FB-1 (from SDGs 423999 and 440-45716-1) and FB-2 (from SDG 440-46454-1) were identified as field blanks. No contaminant concentrations were found with the following exceptions:

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| SDG | Blank ID | Sampling Date | Analyte | Concentration | Associated Samples |
|-------------|----------|------------------|---------------------------------------|---------------------|---|
| 440-46454-1 | FB- 2 | 5/14/13 | Perchlorate Total dissolved solids | 5.8 ug/L 19 mg/L | M-38 H-11 M-125 M-142 M-36 VD-10 |

Sample concentrations were compared to concentrations detected in the field blanks as required by the QAPP. No sample data was qualified with the following exceptions:

| SDG | Sample Analyte | | Reported Concentration | Modified Final Concentration |
|-------------|----------------|-------------|---------------------------|---------------------------------|
| 440-47528-1 | TR-9 | Perchlorate | 2.4 ug/L | 2.4J+ ug/L |
| 440-47528-1 | TR-8 | Perchlorate | 95 ug/L | 95J+ ug/L |
| 440-47528-1 | M-153 | Perchlorate | 27 ug/L | 27J+ ug/L |

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable for samples on which a Stage 4 review was performed. Raw data were not evaluated for the samples reviewed by Stage 2A criteria.

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IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

Samples PC-150 and VD-1 (from SDG 424392), samples M-66 and VD-2 (from SDG 424392), samples M-95 and VD-3 (from SDG 423999), samples M-11 and VD-4 (from SDG 424394), samples M-146 and VD-1 (from SDG 440-46840-1), samples M-144 and VD-2 (from SDG 440-46840-1), samples M-48A and VD-3 (from SDG 440-46009-1), samples PC-21A and VD-4 (from SDG 440-46009-1), samples PC-37 (from SDG 440-46077-1) and VD-5 (from SDG 440-46009-1), samples VD-6 (from SDG 440-46077-1) and M-23 (from SDG 440-46367-1), samples M-65 and VD-7 (from SDG 440-46077-1), samples M-35 (from SDG 440-46367-1) and VD-8 (from SDG 440-46598-1), samples VD-9 (from SDG 440-46736-1) and M-13 (from SDG 440-46744-1), samples VD-10 (from SDG 440-46454-1) and M-10 (from SDG 440-46459-1), samples M-163 and M-163-FD (from SDG 440-47410-1), samples TR-11 and TR-11-FD (from SDG 440-47410-1), and samples M-186 and M-186-FD (from SDG 440-47528-1) were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

| | | Concentration | | | | | |
|--------|------------------------|---------------|-------------|-----------------|------------------------|------|--------|
| SDG | Analyte | PC-150 | VD-1 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 424392 | Perchlorate | 190000 ug/L | 200000 ug/L | 5 (≤30) | - | - | - |
| 424392 | Total dissolved solids | 5800 mg/L | 5900 mg/L | 2 (≤30) | - | - | - |

| | | Concentration | | | | | |
|--------|------------------------|---------------|--------------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-66 | VD-2 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 424392 | Perchlorate | 1800000 ug/L | 1800000 ug/L | 0 (≤30) | - | - | - |
| 424392 | Total dissolved solids | 14000 mg/L | 14000 mg/L | 0 (≤30) | - | - | - |

| | | Concentration | | | | | |
|--------|------------------------|---------------|-------------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-95 | VD-3 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 423999 | Perchlorate | 390000 ug/L | 380000 ug/L | 3 (≤30) | - | - | - |
| 423999 | Total dissolved solids | 6100 mg/L | 6100 mg/L | 0 (≤30) | - | - | - |
| 423999 | Hexavalent chromium | 0.68 mg/L | 0.69 mg/L | 1 (≤30) | - | - | - |

| | | Concentration | | | | | |
|--------|------------------------|---------------|------------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-11 | VD-4 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 424394 | Perchlorate | 25000 ug/L | 25000 ug/L | 0 (≤30) | - | - | - |
| 424394 | Total dissolved solids | 2500 mg/L | 2500 mg/L | 0 (≤30) | - | - | - |
| 424394 | Hexavalent chromium | 1.7 mg/L | 1.4 mg/L | 19 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-------------|------------------------|---------------|-----------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-146 | VD-1 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46840-1 | Perchlorate | 2600 ug/L | 2500 ug/L | 4 (≤30) | - | - | - |
| 440-46840-1 | Total dissolved solids | 3400 mg/L | 3300 mg/L | 3 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-------------|------------------------|---------------|-----------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-144 | VD-2 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46840-1 | Perchlorate | 4000 ug/L | 3100 ug/L | 25 (≤30) | - | - | - |
| 440-46840-1 | Total dissolved solids | 4600 mg/L | 4700 mg/L | 2 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-------------|------------------------|---------------|-------------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-48A | VD-3 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46009-1 | Perchlorate | 150000 ug/L | 160000 ug/L | 6 (≤30) | - | - | - |
| 440-46009-1 | Total dissolved solids | 4100 mg/L | 4000 mg/L | 2 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-------------|------------------------|---------------|------------|-----------------|------------------------|------|--------|
| SDG | Analyte | PC-21A | VD-4 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46009-1 | Perchlorate | 2400 ug/L | 2700 ug/L | 12 (≤30) | - | - | - |
| 440-46009-1 | Total dissolved solids | 10000 mg/L | 11000 mg/L | 10 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-----------------------------|------------------------|---------------|-------------|-----------------|------------------------|------|--------|
| SDG | Analyte | PC-37 | VD-5 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-45976-1/ 440-46009-1 | Perchlorate | 400000 ug/L | 390000 ug/L | 3 (≤30) | - | - | - |
| 440-45976-1/ 440-46009-1 | Total dissolved solids | 8000 mg/L | 8200 mg/L | 2 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-----------------------------|------------------------|---------------|-------------|-----------------|------------------------|-----------------|--------|
| SDG | Analyte | VD-6 | M-23 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46077-1/ 440-46072-1 | Perchlorate | 290000 ug/L | 210000 ug/L | 32 (≤30) | - | J (all detects) | А |
| 440-46077-1/ 440-46072-1 | Total dissolved solids | 4400 mg/L | 4400 mg/L | 0 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-------------|------------------------|---------------|--------------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-65 | VD-7 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46077-1 | Perchlorate | 1800000 ug/L | 1700000 ug/L | 6 (≤30) | - | - | - |
| 440-46077-1 | Total dissolved solids | 15000 mg/L | 17000 mg/L | 13 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-----------------------------|------------------------|---------------|-------------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-35 | VD-8 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46367-1/ 440-46598-1 | Perchlorate | 180000 ug/L | 220000 ug/L | 20 (≤30) | - | - | - |
| 440-46367-1/ 440-46598-1 | Total dissolved solids | 4800 mg/L | 5200 mg/L | 8 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-----------------------------|------------------------|---------------|------------|-----------------|------------------------|------|--------|
| SDG | Analyte | VD-9 | M-13 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46736-1/ 440-46744-1 | Perchlorate | 21000 ug/L | 17000 ug/L | 21 (≤30) | - | - | - |
| 440-46736-1/ 440-46744-1 | Total dissolved solids | 3300 mg/L | 3300 mg/L | 0 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-----------------------------|------------------------|---------------|------------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-10 | VD-10 | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-46454-1/ 440-46459-1 | Perchlorate | 12000 ug/L | 11000 ug/L | 9 (≤30) | - | - | - |
| 440-46454-1/ 440-46459-1 | Total dissolved solids | 2800 mg/L | 2700 mg/L | 4 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-------------|------------------------|---------------|----------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-163 | M-163-FD | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-47410-1 | Perchlorate | 43 ug/L | 46 ug/L | - | 3 (≤10) | - | - |
| 440-47410-1 | Total dissolved solids | 560 mg/L | 560 mg/L | 0 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-------------|------------------------|---------------|----------|-----------------|------------------------|------|--------|
| SDG | Analyte | TR-11 | TR-11-FD | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-47410-1 | Total dissolved solids | 760 | 770 | 1 (≤30) | - | - | - |

| | | Concentration | | | | | |
|-------------|------------------------|---------------|-------------|-----------------|------------------------|------|--------|
| SDG | Analyte | M-186 | M-186-FD | RPD (Limits) | Difference (Limits) | Flag | A or P |
| 440-47528-1 | Perchlorate | 190000 ug/L | 200000 ug/L | 5 (≤30) | - | - | - |
| 440-47528-1 | Total dissolved solids | 7800 mg/L | 7800 mg/L | 0 (≤30) | - | - | - |

2013 Annual Remedial Performance Sampling

Wet Chemistry - Data Qualification Summary - SDGs 420318, 422515, 423999, 424008, 424010, 424394, 424439, 424556, 425373, 427572, 428373, 440-42678-1, 440-43599-1, 440-45612-1, 440-45619-1, 440-45623-1, 440-45716-1, 440-45723-1, 440-45890-1, 440-45976-1, 440-46077-1, 440-46367-1, 440-46369-1, 440-46454-1, 440-46457-1, 440-4659-1, 440-46598-1, 440-46736-1, 440-46832-1, 440-46840-1, 440-47272-1, 440-47313-1, 440-47528-1, 440-49007-1, 440-45624-1, 440-46009-1, 440-46072-1, 440-47410-1, 440-47431-1, 440-50221-1, 424392, 440-46744-1, 440-47414-1, 440-48113-1

| SDG | Sample | Analyte | Flag | A or P | Reason |
|------------------------------|---|------------------------|--|--------|------------------------|
| 423999/ 440-46840-1 | M-95 M-44 FB-1 VD-3 M-95 | Hexavalent chromium | J- (all detects) UJ (all non-detects) | Р | Technical holding time |
| 424010 | I-AR | Total dissolved solids | J- (all detects) R (all non-detects) | Р | Technical holding time |
| 424394/ 424556/ 424392 | M-12A M-11 M-10 VD-4 EB-2 M-37 M-36 EB-1 | Hexavalent chromium | J- (all detects) R (all non-detects) | Р | Technical holding time |
| 424392 | M-25 VD-2 | Total dissolved solids | J- (all detects) UJ (all non-detects) | Р | Technical holding time |
| 440-46077-1/ 440-46072-1 | VD-6 M-23 | Perchlorate | J (all detects) | А | Field duplicate (RPD) |

2013 Annual Remedial Performance Sampling

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No Sample Data Qualified in these SDGs

2013 Annual Remedial Performance Sampling

Wet Chemistry - Field Blank Data Qualification Summary - SDGs 420318, 422515, 423999, 424008, 424010, 424394, 424439, 424556, 425373, 427572, 428373, 440-42678-1, 440-43599-1, 440-45612-1, 440-45619-1, 440-45623-1, 440-45716-1, 440-45723-1, 440-45890-1, 440-45976-1, 440-46077-1, 440-46367-1, 440-46369-1, 440-46454-1, 440-4657-1, 440-46459-1, 440-46598-1, 440-46736-1, 440-46832-1, 440-46840-1, 440-47272-1, 440-47313-1, 440-47528-1, 440-49007-1, 440-45624-1, 440-46009-1, 440-46072-1, 440-47410-1, 440-47431-1, 440-50221-1, 424392, 440-46744-1, 440-47414-1, 440-48113-1

| SDG | Sample | Analyte | Modified Final Concentration | A or P |
|-------------|--------|-------------|---------------------------------|--------|
| 440-47528-1 | TR-9 | Perchlorate | 2.4J+ ug/L | А |
| 440-47528-1 | TR-8 | Perchlorate | 95J+ ug/L | А |
| 440-47528-1 | M-153 | Perchlorate | 27J+ ug/L | А |