APPENDIX F

DATA QUALITY SUMMARY REPORT AND VALIDATION REPORTS

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DATA QUALITY SUMMARY REPORT
REMEDIAL INVESTIGATION

JERVIS B. WEBB COMPANY SUPERFUND SITE
SOUTH GATE, LOS ANGELES COUNTY, CALIFORNIA

DRAFT

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DATA QUALITY SUMMARY REPORT
REMEDIAL INVESTIGATION

JERVIS B. WEBB COMPANY SUPERFUND SITE
SOUTH GATE, LOS ANGELES COUNTY, CALIFORNIA

DRAFT

Contract Number: E9-S9-08-03
Contract Task Order: 0071

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LIST OF ATTACHMENTS

A Stage 2A/2B Data Validation Reports
B Stage 3 Data Validation Reports
C EPA Tier 3 Validation Reports
D Field Duplicate Summary Report

ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
APHA	American Public Health Association
CCV	continuing calibration verification
CLP	EPA Contract Laboratory Program
CPT	cone penetrometer test
DQO	data quality objective
DQSR	Data Quality Summary Report
eDMS	electronic data management system
ELAP	Environmental Laboratory Accreditation Program
EPA	United States Environmental Protection Agency
EST	Environmental Support Technologies
FB	field blank
FS	Feasibility Study
GC/MS	gas chromatography/mass spectrometry
Gilbane	Gilbane Federal
GW	groundwater
H&P	H & P Mobile Geochemistry, Inc.
ICAL	initial calibration
ICP	inductively coupled plasma
ICP/MS	inductively coupled plasma/mass spectrometry
ICV	initial calibration verification
IS	internal standard
JW	Jervis B. Webb Superfund Site
LCS/LCSD	laboratory control sample/laboratory control sample duplicate
MB	method blank
MCL	maximum contaminant level
MDL	method detection limit
MS	matrix spike
MS/MSD	matrix spike/matrix spike duplicate
PCB	polychlorinated biphenyl
pdf	portable document format
QAO	U.S. EPA Quality Assurance Office
QC	quality control
QL	quantitation limit
R9	U.S. EPA Region 9 Laboratory
RI	Remedial Investigation
RL	reporting limit
RPD	relative percent difference

RRF	relative response factor
RSD	relative standard deviation
S2AVEM	Stage 2A Validation Electronic and Manual
S2BVEM	Stage 2B Validation Electronic and Manual
S3VEM	Stage 3 Validation Electronic and Manual
SAP	Sampling and Analysis Plan
SDG	sample delivery group
SIM	selective ion monitoring
SM	Standard Method
SO	soil
SVOC	semivolatile organic compound
ug/L	micrograms per liter
VI	vapor intrusion
VOC	volatile organic compound

1.0 ANALYTICAL PROGRAM

Gilbane Federal (Gilbane) has prepared this Data Quality Summary Report (DQSR) on behalf of the United States Environmental Protection Agency (EPA), Region 9, as part of the remedial investigation (RI) being conducted for the Jervis B. Webb Superfund Site (JW), South Gate, California. Gilbane is conducting the RI at JW under EPA Contract EP-S9-08-03, Task Order 0071. This DQSR encompasses groundwater, soil, soil gas, and indoor air samples collected between March 2013 and September 2017, with some earlier data from June 2011. This DQSR reconciles the chemical data with the project data quality objectives (DQOs) for the RI, as presented in the RI/Feasibility Study (FS) Sampling and Analysis Plan (RI/FS SAP; Gilbane, 2015), the Addendum to the Sampling and Analysis Plan for Additional Soil Gas Investigation (Soil Gas Addendum; Gilbane, 2016), and the Sampling and Analysis Plan for Vapor Intrusion (VI SAP; Gilbane, 2017), and establishes the data usability of the dataset.

Table 1 provides a summary of the analytical methods performed on samples collected.

Table 1: Summary of Analytical Methods

METHOD	MATRIX	COMPOUNDS
SOM01.2/SOM2.2 CVOL	GW/SO	CLP Volatiles (VOCs)
EPA 524.2	GW	VOCs
SOM01.2/SOM02.2 CSVOL	GW/SO	CLP Semivolatiles (SVOCs)
SOM01.2/SOM02.2 SIMSVOL	GW/SO	1,4-Dioxane
SOM01.2 SVOL	GW	1,4-Dioxane
SOM01.2/SOM02.2 CARO	GW/SO	CLP Polychlorinated biphenyls (PCBs)
ISM01.3/ISM02.2 ICPAES	GW/SO	CLP Inductively coupled plasma (ICP) spectrophotometer metals
ISM01.3/ISM02.2 ICPMS	GW	CLP ICP Mass spectrometer (MS) metals
ISM01.3/ ISM02.2 CVAA	GW/SO	CLP Mercury
ISM01.3 SPEC	GW	CLP Cyanide
EPA 7196A	SO	Hexavalent Chromium
EPA 300.0	GW	Anions (chloride and sulfate)
EPA 331.0	GW	Perchlorate
EPA 415.3	GW	Total Organic Carbon
Standard Method (SM) 2320B	GW	Alkalinity
SM 2540C	GW	Total Dissolved Solids

Table 1: Summary of Analytical Methods

METHOD	MATRIX	COMPOUNDS
EPA TO-15	Soil Gas	VOCs in air
EPA 8260B	Soil Gas	VOCs in air
EPA TO-15SIM	Air	VOCs in air

Abbreviations:
CLP = Contract Laboratory Program
EPA = US Environmental Protection Agency
GW = groundwater
SIM = selected ion monitoring
SO = soil
SVOC = semivolatile organic compound
VOC = volatile organic compound

Groundwater, soil, and air samples were analyzed for one or more of the above methods. Analyses were conducted in accordance with the requirements specified in the following guidance documents:

- *Methods for Chemical Analysis of Water and Wastes* (U.S. Environmental Protection Agency [EPA], 1983).
- *Standard Methods for the Examination of Water and Waste Water, 21st Edition* (American Public Health Association [APHA], 2005).
- *Compendium of Methods for Determination of Toxic Organic Compounds in Ambient Air* (EPA, 1999).
- *EPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration, SOM01.1, May 2005* (EPA, 2005).
- *Modifications Updating SOM01.1 to SOM01.2,* Amended April 11, 2007 (EPA, 2007).
- *EPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)* ISM01.2, January 2010, and *Modifications Updating ISM01.2 to ISM01.3* (EPA, 2010).
- *Final Sampling and Analysis Plan, Remedial Investigation/Feasibility Study, Jervis B. Webb Company Superfund Site, South Gate, Los Angeles County, California.* (RI/FS SAP; Gilbane, 2015).
- *Final Addendum to the Sampling and Analysis Plan for Additional Soil Gas Investigation at Jervis B. Webb Company Superfund Site, Remedial Investigation/Feasibility Study, South Gate, California.* (Soil Gas Addendum; Gilbane, 2016).
- *Final Sampling and Analysis Plan Vapor Intrusion Evaluation, Jervis B. Webb Company Superfund Site, South Gate, Los Angeles County, California* (VI SAP; Gilbane, 2017a).

Soil and groundwater samples were submitted to the EPA Contract Laboratory Program (CLP) network of laboratories or to the EPA Region 9 Laboratory (R9) in Richmond, California. Water

quality parameter samples for general chemistry analysis were submitted to R9. The soil gas samples were analyzed by R9; H & P Mobile Geochemistry, Inc. (H&P) of Carlsbad, California; and Environmental Support Technologies (EST) laboratories of Irvine, California. The indoor air samples were analyzed by R9. EST and H&P are certified by the State of California Environmental Laboratory Accreditation Program (ELAP) to perform EPA Method 8260B; California does not currently offer certification for EPA Method TO-15.

Laboratory reports were submitted to Gilbane as portable document format (pdf) files and are included as attachments to the RI report. Electronic results from each laboratory were uploaded into the Gilbane electronic data management system (eDMS) by sample delivery group (SDG). The eDMS is configured to perform a consistency check between the laboratory data and the chain-of-custody input information. Gilbane resolved any discrepancies (e.g., non-matching sample identifiers) with the laboratory prior to upload of the SDG. The Gilbane Project Chemist performed an automated data review on the results and supplemented the review with manual review to meet the requirements of a minimum of a Stage 2B Validation Electronic and Manual (S2BVEM) data review for CLP or commercial lab data and Stage 2A Validation Electronic and Manual (S2AVEM) for R9 data, as defined in the EPA *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (EPA, 2009).

The EPA Region 9 Quality Assurance Office (QAO) data validation contractor performed independent EPA Tier 3 validation on approximately 10% of the CLP organic and metals data. CLP data received at least EPA Tier 1B validation by the EPA QAO or Stage S2BVEM by the Gilbane Project Chemist. The Gilbane Project Chemist performed approximately 10% S3VEM and 90% S2BVEM validation of the vapor intrusion data from the R9 or commercial laboratories. The validators reviewed and validated the analytical data for test method results according to the procedures specified in the following documents, as applicable:

- RI/FS SAP, Soil Gas Addendum, and/or VI SAP.
- *National Functional Guidelines for Inorganic Superfund Methods Data Review* (EPA, 2017a).
- *National Functional Guidelines for Organic Superfund Methods Data Review* (EPA, 2017b).

The data qualification flag definitions and reason codes are presented in Section 1.1. The validators evaluated and used as a basis for qualifying data the following analytical quality control (QC) elements:

- Holding time and temperature compliance.
- Initial calibrations (ICAL).
- Initial and continuing calibration verification (ICV/CCV).
- Method blank (MB) contamination.
- Field blank (FB) contamination.
- Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) accuracy and precision.
- Matrix spike/matrix spike duplicate (MS/MSD) accuracy and precision.
- Sample duplicate precision.
- Internal standard (IS) recovery.
- Surrogate recovery.
- Interference check sample recovery (metals only).
- Serial dilution (metals only)
- Instrument tuning and system performance (Tier 3).
- Analyte identification and quantitation (Tier 3).

Stage 2A/2B validation reports are provided as Attachment A. Stage 3 validation reports are provided as Attachment B. EPA Tier 3 validation reports are provided as Attachment C.

1.1 QUALIFIED RESULTS

Data qualifiers are defined in the National Functional Guidelines (EPA, 2017a and 2017b). The final data tables contain the following data qualifiers as appropriate for JW RI data:

- *J qualifier* denotes that the analyte was positively identified, but the quantitation is estimated. The analyte was positively identified but the associated numerical value is an estimated value above the method detection limit (MDL) and below the reporting limit (RL). Alternatively, the data validation process may identify that the numerical value should be estimated due to exceedance of quality control criteria.
- *U qualifier* denotes that the analyte was analyzed for, but was reported as not detected by the laboratory. The associated numerical value is at the RL. The results may also be qualified as "U" during the validation process due to blank contamination. In this case,

the associated numerical value is at the RL if the original result was reported at a value less than the RL, or at the observed value if original result was reported at a value greater than the RL.

- *UJ qualifier* denotes that the associated reporting limit may be inaccurate or imprecise.
- *R qualifier* denotes that the data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.

A qualifier may be applied to a result for more than one reason. For example, a result that was qualified as estimated, "J", because the analysis was conducted beyond the allowed holding time may also be qualified due to an identified problem with the instrument calibration. The reason for each data qualifier is provided in the reason code fields of the qualified results tables found in the data validation reports provided as Attachments A and B. The following subsections discuss the quality of the data and reasons for qualification. Significant data-quality issues (i.e., those resulting in data rejection) are discussed in Section 2.0.

1.2 ESTIMATED LOW CONCENTRATIONS

The analytical laboratories reported detected analyte concentrations to the MDL, and non-detected concentrations to the RL. Detected concentrations between the RL and the MDL are qualified as estimated, "J", because of the increased quantitative uncertainty in the result as the concentration of the analyte approaches the MDL. A total of 1,126 out of 42,965 total results reported for the JW RI were qualified as estimated with reason code "TR" due to trace concentrations measured between the MDL and the RL.

Qualification of results as estimated due to low concentrations of analytes is expected due to the sensitivity of the analytical methods used and the low concentrations of many analytes. Qualification for low concentrations is not due to method performance or analytical program issues. Results remain usable with qualification, and data usability is not affected.

1.3 SAMPLE SHIPMENT, RECEIPT, STORAGE AND PRESERVATION

As soil and water samples were collected in the field, they were preserved immediately by cooling to the specified temperature range of 2 to 6 degrees Celsius (°C). The soil gas and indoor air samples did not require cooling. Samples were shipped by overnight carrier directly to the specified laboratories, with the exception of some of the soil gas samples, which were hand-

delivered to H&P or EST. The results for 27 soil field samples for mercury, and the results for 11 groundwater field samples for VOCs, were qualified as "J" or "UJ" for estimated results or RLs, with a reason code of "T," because the laboratory received the samples at temperatures outside the prescribed ranges, affecting 498 results out of a total of 42,965. In addition, 20 samples to be analyzed for VOCs in March 2015 were received at the laboratory at 10.4 °C due to shipping delays; however, the samples were not analyzed. No other samples were received at temperatures outside the specified temperature range.

Upon receipt by the laboratory, samples were immediately entered into the laboratory's data management system, and water and soil samples were stored under refrigeration. No sample results were qualified due to improper sample shipment and storage for these events.

1.4 HOLDING TIME

One soil sample and seven water samples for VOCs were qualified "J" or "UJ" for an estimated value or RL, with a reason code of "H1," due to an exceedance of the analytical holding time, representing 267 results of a total of 42,965. Two water samples for VOCs, representing 97 results, were qualified as "R" (rejected), with a reason code of "H1," due to technical holding time exceedances. The details of the rejected data are presented in Section 2.0. No other analytical or preparation holding time exceedances were noted. The estimated data are usable as qualified. The data usability of the rejected data is discussed in Section 2.0.

1.5 LABORATORY AND FIELD BLANK CONTAMINATION

Low levels of target analytes were detected in some laboratory and field blanks due to ambient contamination. The sensitivity of modern analytical methods increases the likelihood of detection of low-level contamination. Sources of low-level contamination are difficult to identify, but common sources include dust, and volatile organic compounds gradually released from manufactured plastics and building materials. A total of 253 inorganic or organic results out of a total of 42,965 results were qualified "U" or "UJ" for not detected at the RL or at the observed value in the sample due to laboratory or field blank contamination. The following summarizes the types of blank contamination qualified for the JW RI:

- 101 water results for method and/or calibration blanks (reason codes "B1", "B2", "K" and "B5").
- 122 soil results for method and/or calibration blanks (reason codes "B1", "B2", "K" and "B5").
- 6 soil results for laboratory storage blanks (reason code "K4").
- 27 water results for equipment, field, and trip blanks (reason codes "A1", K1", and "K3").

Concentrations of analytes detected in the blanks are not sufficiently high for any associated sample results to be rejected. The identified low-level contamination is not sufficient to affect data usability.

1.6 CALIBRATION

Instrument initial calibrations (ICAL) were performed in accordance with specified EPA methodology. The acceptability of the calibration is determined by the measurement of method-specific statistical parameters. During analysis, an instrument may have a calibration that is outside the acceptance limit. Analytical results associated with a calibration that is later determined to be outside the acceptance limit will have increased uncertainty. Depending on the magnitude and nature of the calibration failure, results may be qualified. The validators reviewed the initial and continuing calibrations for each SDG at Tier 1B (S2BVEM) or higher. Out of 42,965 results, nine SVOC results were qualified "UJ" for an estimated RL, with a reason code of "G1," due to ICAL relative standard deviation (RSD) exceedances. Two hundred-fifty-eight results were qualified "J" or "UJ" for an estimated value or RL, with a reason code of "G2" for an exceedance of an ICV standard, or "C11" for an exceedance of a CCV standard RSD. One soil gas result was qualified "J" for an estimated value, with a reason code of "E," due to a calibration linear range exceedance. Ninety-three soil 1,4-dioxane results were qualified "R" due to low ICAL and CCV relative response factors (RRF), reason codes "G" and "C10," respectively. Details concerning the rejected data are presented in Section 2.0.

Given the number and types of analytes that are measured in this program, the number of results qualified as estimated "J" or "UJ" due to calibration issues is minimal. The estimated results are usable as qualified. The usability of the rejected data is discussed in Section 2.0.

1.7 QUANTITATION LIMIT STANDARD

Quantitation limit standards are sensitivity verification standards analyzed at or below the RL after an ICAL. The evaluation of the quantitation limit standard recovery may indicate that there is greater uncertainty at the lower end of the of the calibration curve. One result analyzed for naphthalene by EPA 8260B was qualified "UJ" for an estimated RL, and two results analyzed for vinyl chloride by EPA TO-15 were qualified as estimated, "J," with a reason code of "J" for quantitation limit standard recovery criteria exceedances. Data usability is not affected.

1.8 SURROGATES AND INTERNAL STANDARDS

Surrogate compounds and internal standards are control compounds used to monitor the analytical process as specified in EPA methodology. The evaluation of the surrogate recovery and internal standard response may indicate that the accuracy of the result is not within the acceptable method-specific parameters. Depending on the magnitude of the uncertainty, a result may be qualified. A total of 761 results for soil and water samples have been qualified "J" or "UJ" for an estimated value or RL, with a reason code of "S," due to surrogate recovery out of criteria. Fifty-nine VOC results qualified as rejected, "R," for severely low surrogate recovery anomalies are discussed in detail in Section 2.0. Out of 42,965 total results, one result was qualified as estimated, with a reason code of "I," for an internal standard recovery anomaly. Seven results analyzed for SVOCs were rejected due to internal standard recoveries that were out of criteria. The details of the rejected data are presented in Section 2.0.

The number of results qualified for surrogate and internal standard recovery issues is consistent with that found in a review of previous project data, and the estimated results are usable as qualified. The data usability of the rejected data is discussed in Section 2.0.

1.9 SERIAL DILUTION

For metals analyses, a serial dilution test is used to determine if interferences are present during the analysis. The measurement of a metal in an undiluted sample is compared to the measurement of the same metal in a diluted sample (and multiplied by the proper dilution factor). The two results are compared, and if uncertainty is shown, the results in associated samples may

be qualified. A serial dilution test may be evaluated only when a measurable amount of analyte is present. Out of 42,965 total results, 106 water or soil sample results were qualified as "J," with a reason code of "A," for an estimated result or RL due to serial dilution test results that were outside control limits.

The number of results so qualified is minimal, and these results remain usable as qualified. No results were rejected, and data usability is not significantly affected.

1.10 LABORATORY CONTROL SAMPLES

Laboratory control samples (LCSs) are synthetic samples prepared and analyzed using the same procedures as normal field samples. Laboratory control samples are used to further monitor the analytical process for accuracy. Laboratory control sample duplicates(LCSDs) were also analyzed to measure precision.

Given the number and types of analytes that are measured during the JW RI sampling events, it is likely that some of the measurements of the LCS samples will occur outside acceptance parameters. A total of 55 results, encompassing water, soil, and air matrices, have been qualified "J" or "UJ" for an estimated value or RL, with a reason code of "L," due to LCS/LCSD anomalies. No data were rejected due to LCS anomalies.

The results, as qualified, are useable for their intended purposes. The number of results qualified is consistent with what is often found in similarly-sized datasets. Data usability is not significantly affected.

1.11 MATRIX SPIKE SAMPLES

Matrix spike samples are field samples to which analytes of interest have been added in the laboratory, to monitor the analytical process. One in 20 samples was identified for matrix spike analysis, representing approximately a 5-percent frequency for the individual analytical methods, with the exception of the majority of the general chemistry methods for which the frequency was less than 5%. A total of 141 results have been qualified as "J" or "UJ," with a reason code of "M" or "D2," for an estimated value or RL due to MS/MSD accuracy or precision anomalies. The low percentage of general chemistry MS/MSD samples does not affect the completeness of

the data set. Because the general chemistry parameters are not chemicals of concern, there is little effect on data usability.

The estimated results are useable as qualified for their intended purpose. The number of results qualified due to potential matrix interference is minimal, and data usability is not significantly affected.

1.12 LABORATORY DUPLICATE SAMPLES

As part of its internal quality control checks for precision measurement, the laboratory analyzes and reports laboratory duplicates. Twenty-four results were qualified as "J" or "UJ," with reason code "D1," for an estimated value or RL due to laboratory duplicate imprecision. The number of qualified results for this reason is minimal, and data usability is not affected.

1.13 INSTRUMENT PERFORMANCE AND INTERFERENCE CHECKS

The validators reviewed the gas chromatography/mass spectrometry (GC/MS) instrument tunes and performance checks for the VOC and SVOC analyses for Tier 3 (S3VEM) validation. Out of 42,965 results evaluated, no results were qualified due to instrument performance check anomalies. The inductively coupled plasma/mass spectrometry (ICP/MS) tunes were also reviewed, along with interference checks for both the ICP/MS and ICP instruments. Out of 42,965 results, no results were qualified for interference check anomalies.

1.14 ANALYTE IDENTIFICATION AND QUANTIFICATION

RLs and MDLs were reported for all methods. Results were reported to the laboratory's MDL. The RLs met the project objectives and achievable quantitation limits (QLs) stipulated in the three SAPs cited in Section 1.0 before corrections for dilutions and percent moisture, with the following exceptions:

- The Project Chemist added the reason code of "X" indicating a raised detection limit to the following samples:
    - Water samples JWMW-04-1116, JWMW-09A-1116, JWMW-09B-1116, JWMW-09C-1116, JWMW10-1116, and JWMW-05-1116; field duplicate JWMW-98B-1116; and equipment blank JW-EL01-116 were reported with elevated RLs of 2 or 4 micrograms per liter (ug/L) for perchlorate due to matrix interference, exceeding the RI/FS SAP QL of 0.3 ug/L. However, the achieved RLs met the maximum contaminant level (MCL) of 6 ug/L and data usability is not affected.

- The RL for 1,2-dibromo-3-chloropropane in the water samples comprising SDGs YABF4 and YABH1 were elevated during validation from 0.5 ug/L to 1.0 ug/L due to low ICAL response factors, exceeding the RI/FS SAP-stipulated QL of 0.5 ug/L. However, the QL was met by the MDL of 0.24 ug/L.
- The 32 soil gas samples comprising SDGs 4B71501 and 4B71601 were reported with an extremely elevated MDL and RL for 1,4-dioxane: 16,000 micrograms per cubic meter (ug/m^3) and 50,000 ug/m^3, respectively. Samples affected are those for all depths and associated QC samples for locations JW-SB/SG27 through JW-SB/SG34 analyzed by EPA Method 8260B. As both the MDL and RL exceed the 2017 industrial soil gas screening level of 83.3 ug/m^3 substantially, end users of the data should be aware that the elevated reporting limits may mask detections above the screening level.

2.0 REJECTED RESULTS

The data review and validation process identified 255 results out of a total of 42,965 that were rejected due to various analytical performance issues.

- As introduced in Section 1.4, the 97 non-detected VOC results in groundwater samples JW-CPT13-60 and JW-CPT14-60 were qualified as rejected, "R," for holding time exceedances. The samples listed above were analyzed beyond the 7-day technical holding time for unpreserved water samples by 3 and 4 days, respectively.
- As introduced in Section 1.6, 93 non-detected 1,4-dioxane results for soil were qualified as rejected, "R," for a low CCV or ICAL RRF. A low RRF indicates poor instrument sensitivity for the analyte.
- As introduced in Section 1.8, 59 non-detected VOC results in five soil samples were qualified as rejected, "R," for severely low surrogate recoveries. The affected samples and analytes are as follows:
    - JW-SB10-0.5: 1,1,2,2-tetrachloroethane, 1,1-dichloroethane, 1,2-dibromo-3-chloropropane, bromochloromethane, bromoform.
    - JW-SB12-0.5: 1,1,1-trichloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloro-1,2,2-trifluoroethane, 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,2,3-trichlorobenzene, 1,2,3-trichloropropane, 1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane, 1,2-dichlorobenzene, 1,2-dichloroethane, 1,2-dichoropropane, 1,3-dicholorobenzene, 1,4-dichlorobenze,1,4-dioxane, benzene, bromochloromethane, bromodichloromethane, bromoform, carbon tetrachloride, chlorobenzene, chloromethane, cis-1,2-dichloroethene, cis-1,3-dichloropropene, cyclohexane, dibromochloromethane, ethylbenzene, isopropylbenzene, m,p-xylene, methyl acetate, methylcyclohexane, methylene chloride, o-xylene, styrene, tert-butyl methyl ether, toluene, trans-1,2-dichloroethene, trans-1,3-dichloropropene, trichlorofluoromethane.
    - JW-SB14-5: 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,3-dicholorobenzene, 1,4-dichlorobenze, chlorobenzene.
    - JW-SB16-0.5: 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,3-dicholorobenzene, 1,4-dichlorobenze, chlorobenzene.
    - JW-SB26-0.5: 1,1,2,2-tetrachloroethane, 1,2-dibromo-3-chloropropane.
- As also introduced in Section 1.8, seven non-detected SVOC results in sample JW-SB12-0.5 were qualified as rejected, "R," for severely low internal standard recoveries, indicating an acute matrix effect. The affected analytes are benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, di-n-octylphthalate, dibenz(a,h)anthracene, and indeno(1,2,3-c,d)pyrene.

The rejected 1,4-dioxane data represent a large percentage (67%) of the soil data for this analyte. In view of the high solubility of 1,4-dioxane, and the fact that all water and soil gas data for the analyte are usable, the effect on data usability is mitigated.

Although the rejected results are not usable, they represent a very small percentage of the overall dataset (0.6%). Data usability is not significantly affected.

3.0 FIELD DUPLICATES

Approximately one sample for ten primary samples was collected as a field duplicate for each analytical group, and these samples were analyzed for the same parameters as the normal samples. The RI/FS SAP, Soil Gas Addendum, and/or VI SAP specify that field duplicate results are in agreement when the RPD between the field duplicate result and the normal sample result is less than 35 when the results exceed the RL, or the absolute difference is less than the RL for concentrations near the RL. Thirty-nine sample pairs were compared, representing 3,312 result pairs. Of these 3,312 result pairs, only 36 exceeded the RPD goal of 35%. The majority of the exceedances were for metals in soil and attributable to the generally nonhomogeneous distribution of metals in that matrix. Four additional results with primary or field duplicate results less than one times the RL had absolute differences greater than the RL between the results, and were considered out of criteria. As the effect of field duplicate anomalies on data usability is unknown, advisory reason codes of "D5" indicating field duplicate RPD exceedances were applied, but the results were not qualified. A comparison of field duplicate pairs is presented as Attachment D.

It should be noted that in addition to field duplicates, split samples were performed for the 2017 soil gas event at a rate of approximately 10%. The split sample evaluation was presented under separate cover in the *Soil Gas Monitoring Results, 2017, Jervis B. Webb Company Superfund Site, Remedial Investigation/Feasibility Study, South Gate, California, Technical Memorandum* (Gilbane, 2017b), and is not further discussed here.

4.0 FIELD DEVIATIONS OR OTHER ISSUES

The following deviations from the RI/FS SAP, Soil Gas Addendum, and/or VI SAP were noted for the JW RI sampling:

- Water was noted to be present in the tubing during the collection of soil gas sample SB/SG18-15, 10PV in March of 2015. Since water can absorb volatile compounds, the 40 associated results have been qualified as "J" or "UJ" for an estimated value, or RL with a reason code of "V."
- Two of the canisters for the 2017 indoor air sampling event were received from the laboratory with inadequate vacuum for the purposes of sample collection. As a result, no canister was available for the collection of a field duplicate for this event. However, the field duplicate goal of 10 percent duplicates for the RI as a whole was achieved, and data usability is not affected.
- Trip blanks JW-RL03-0517 and JW-RL04-0517, used as field QC during groundwater sampling of new wells during May of 2017, contained "air bubbles greater than 6 mm." The air bubbles may have contributed to underestimation of the concentration of any contaminants present in the trip blanks.

5.0 CONCLUSIONS AND DATA USABILITY

The analytical methods used for the JW RI samples were selected to provide quality data sufficient to meet data quality objectives, including comparability to historical data, continuity of the groundwater monitoring program, and adherence to the project sensitivity requirements for soil gas and indoor air sampling.

5.1 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

Field QC samples for this project included field duplicates, field blanks, equipment blanks, and trip blanks. The field QC samples were collected as specified in the RI/FS SAP, the Soil Gas Addendum, and the VI SAP. Laboratory QC included precision and accuracy in the form of analysis of MS/MSD pairs, LCSs, laboratory duplicates, post-digestion spikes, serial dilutions, surrogates, and internal standards at the frequencies specified in the discussion of the methods in Section 1.0 of this DQSR.

Precision: Precision is a measure of the repeatability of a single measurement. The precision of the dataset was assessed by evaluating the RPD between primary and duplicate samples (e.g., spike duplicate samples) or between primary and confirmation sample results. The total number of results qualified as estimated for precision anomalies is 65, which represents 0.2% of the 42,965 results comprising the dataset.

Accuracy: Accuracy is a measure of recovery of the actual concentration of a compound. The accuracy of the dataset was assessed by the surrogate, ICV, CCV, MS/MSD, post-digestion spike, serial dilution and LCS percent recoveries, differences, or drifts. The total number of results qualified as estimated for one or more accuracy anomalies is 1,292, which represents 3.0% of the 42,965 results comprising the dataset. Seven SVOC and 59 VOC results were rejected for surrogate or internal standard anomalies, representing 0.2% of the 42,965 results comprising the dataset. The estimated results remain usable with qualification. The rejected results are not usable.

Representativeness: Representativeness of the dataset is determined by the degree to which the data represent the samples submitted to the laboratory. Holding times, preservation, and blank results affect the representativeness of a sample. Out of 42,965 total results in the dataset, 1,050 or 2.4% were qualified as estimated due to representativeness anomalies. Ninety-seven results were rejected due to holding time exceedances, representing 0.2% of the total dataset. The dataset is considered representative of the samples submitted to the laboratory, with the exception of the rejected data.

Comparability: The analytical methods used for analysis affect the comparability of the dataset. The methods used for this project are standard, peer-reviewed methods as determined by the RI/FS SAP, the Soil Gas Addendum, and the VI SAP. The specific methods are listed in Section 1.0. The analytical methods used provided units of measure and reporting limits similar to JW data from previous investigations.

Completeness: The analytical completeness of the dataset is determined by the number of acceptable primary results after data review. Only the results for primary project samples were used in the calculation to determine the completeness of the data. Out of 36,957 primary sample results, 2,936 results, or 7.9%, were qualified as estimated or not detected at the RL for one or more QC reasons. Out of the 2,936 primary results qualified, 897 primary results were qualified for trace values only and 2,039 primary results, or 5.5% of the primary dataset, were qualified for method performance or analytical QC issues. The results as qualified can be used for their intended purposes. Out of 36,957 primary results, 246 results were rejected. Therefore, the completeness of the analytical dataset is 99.3%, which exceeds the completeness goal of 95% presented in the three SAPs.

Field completeness is determined by the number of planned primary samples collected, shipped, and analyzed. Upon receipt by the laboratory, samples were cross-checked with the chain-of-custody documentation for completeness, and entered into the laboratory's data system. A total

of 736 out of 760 planned primary samples were collected, shipped, and analyzed. One bottom depth for a cone penetrometer test (CPT) boring met refusal. Twenty depths for CPT borings were dry. Twenty soil VOC aliquots were not analyzed due to temperature anomalies in March 2015; however, the rest of each sample was analyzed, and these samples have not been counted as incomplete in the field completeness calculation. Three wells were inaccessible during the scheduled sampling event in November 2016. Therefore, the field completeness for the JW RI is 96.8%, which exceeds the completeness goal of 95%.

5.2 FINAL CONCLUSION

The data generated for the JW RI sampling events meet the project objectives. Overall, as shown in the attached validation reports, there were minor quality control deficiencies affecting the data. The estimated data as qualified are of acceptable quality, and should be considered usable for their intended purposes. The rejected data, while not usable, are of minimal impact to the project.

6.0 REFERENCES

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EPA, 2009. *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use.* EPA 540-R-08-005. January.

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EPA, 2017a. *National Functional Guidelines for Inorganic Superfund Methods Data Review.* EPA-540-R-2017-001. January.

EPA, 2017b. *National Functional Guidelines for Organic Superfund Methods Data Review.* EPA-540-R-2017-002. January,

ATTACHMENTS

ATTACHMENT A

STAGE 2A/2B DATA VALIDATION REPORTS

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Facility:	Jervis-Webb Superfund Site
Event:	February 2017 Soil Gas Sampling
Guidance Document:	Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015
Contract Laboratory:	ENVIRONMENTAL SUPPORT TECHNOLOGIES, IRVINE, CA
Field Contractor:	Gilbane Company, Walnut Creek, CA
Data Review Contractor:	
SDG:	4B71501, Certified - 4/3/2017 by wtse
QC Level:	S2BVEM (Tier 1B)
Project Manager:	Don Gruber - Gilbane
Data Reviewer:	Tom Beer - Gilbane
Data Reviewer Title:	Project Chemist
Date of Review Report:	4/10/2017

Analytical Method/ Leach Method	Normal Gaseous Samples	Field QC Gaseous Samples
SW8260B/NONE	13	2

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by ENVIRONMENTAL SUPPORT TECHNOLOGIES, IRVINE, CA and were reported under sample delivery group (SDG) 4B71501. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

Ambient Blank
Blank
Blank - Negative
Equipment Blank
Lab Replicate RPD
LCS Recovery
Prep Hold Time
Surrogate
Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

Calibration Blank
Calibration Blank - Negative
Continuing Calibration Verification
Field Blank
Field Duplicate
Initial Calibration Verification
Material Blank
MS Recovery
MS RPD
Negative Blank
Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 15 results (1.59%) out of the 945 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Analytical Method	Comment
8260B	All 1,4-dioxane results have raised reporting limits (X) due to poor field lab techniques for heating samples and recovering measurable analyte concentrations. No non-detects were qualified.
8260B	No data were rejected.

J. Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2017.04.10 16:49:35 -07'00'

April 10, 2017

Reviewed by ,

Qualified Results

Test Method: SW8260B	Extraction Method: NONE		Leach Method: NONE		Matrix: GQ			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
EQUIPMENT BLANK_20170215	EB	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
MATERIAL BLANK	AB	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X

Test Method: SW8260B	Extraction Method: NONE		Leach Method: NONE		Matrix: GS			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-SB/SG27-15 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG27-35 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG27-5 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG28-15 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG28-15 3PV	N	Chloromethane	500	310	310 J		UG/M3	TR
JW-SB/SG28-35 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG28-5 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG29-15 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG29-35 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG29-35 3PV	N	cis-1,2-Dichloroethylene	200	170	170 J		UG/M3	TR
JW-SB/SG29-5 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG30-15 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG30-25 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG30-35 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG30-35 3PV	N	trans-1,2-Dichloroethene	200	140	140 J		UG/M3	TR
JW-SB/SG30-5 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X

Reason Code Definitions

Code	Definition
B1	The analyte was found in an associated method blank.
L	Percent recovery of laboratory control sample recovery was outside established limits
TR	Trace Level Detect
X	Raised reporting limit

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for 4B71501
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: SW8260B Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	GQ	LABQC	47B1501-BS1	NA	1/1	2/15/2017 06:49		2/15/2017 06:49	/	BS
LABQC	GQ	LABQC	47B1501-BS2	NA	1/1	2/15/2017 08:20		2/15/2017 08:20	/	BS
LABQC	GQ	LABQC	47B1501-BLK1	NA	1/1	2/15/2017 08:50		2/15/2017 08:50	/	LB
FIELDQC	GQ	EQUIPMENT BLANK_20170215	4B71501-01	NA	1/1	2/15/2017 09:05		2/15/2017 09:20	/	EB
FIELDQC	GQ	MATERIAL BLANK	4B71501-02	NA	1/1	2/15/2017 09:35		2/15/2017 09:49	/	AB
JW-SB/SG27	GS	JW-SB/SG27-5 3PV	4B71501-03	NA	1/1	2/15/2017 10:05		2/15/2017 10:18	/	N
JW-SB/SG27	GS	JW-SB/SG27-5 3PV	47B1501-DUP1	NA	1/1	2/15/2017 10:05		2/15/2017 10:47	/	LR
JW-SB/SG27	GS	JW-SB/SG27-15 3PV	4B71501-04	NA	1/1	2/15/2017 11:00		2/15/2017 11:16	/	N
JW-SB/SG27	GS	JW-SB/SG27-35 3PV	4B71501-05	NA	1/1	2/15/2017 11:30		2/15/2017 11:45	/	N
JW-SB/SG29	GS	JW-SB/SG29-5 3PV	4B71501-06	NA	1/1	2/15/2017 12:00		2/15/2017 12:17	/	N
JW-SB/SG29	GS	JW-SB/SG29-15 3PV	4B71501-07	NA	1/1	2/15/2017 12:30		2/15/2017 12:46	/	N
JW-SB/SG29	GS	JW-SB/SG29-35 3PV	4B71501-08	NA	1/1	2/15/2017 13:00		2/15/2017 13:15	/	N
JW-SB/SG28	GS	JW-SB/SG28-5 3PV	4B71501-09	NA	1/1	2/15/2017 13:30		2/15/2017 13:44	/	N
JW-SB/SG28	GS	JW-SB/SG28-15 3PV	4B71501-10	NA	1/1	2/15/2017 14:00		2/15/2017 14:13	/	N
JW-SB/SG28	GS	JW-SB/SG28-35 3PV	4B71501-11	NA	1/1	2/15/2017 14:25		2/15/2017 14:42	/	N
JW-SB/SG30	GS	JW-SB/SG30-5 3PV	4B71501-12	NA	1/1	2/15/2017 14:55		2/15/2017 15:11	/	N
JW-SB/SG30	GS	JW-SB/SG30-15 3PV	4B71501-13	NA	1/1	2/15/2017 15:25		2/15/2017 15:40	/	N
JW-SB/SG30	GS	JW-SB/SG30-25 3PV	4B71501-14	NA	1/1	2/15/2017 15:55		2/15/2017 16:08	/	N
JW-SB/SG30	GS	JW-SB/SG30-35 3PV	4B71501-15	NA	1/1	2/15/2017 16:20		2/15/2017 16:37	/	N

Field Batch Report

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
15021701			FIELDQC	GQ	EQUIPMENT BLANK_20170215	4B71501-01	2/15/2017 09:05	EB
15021701			JW-SB/SG27	GS	JW-SB/SG27-15 3PV	4B71501-04	2/15/2017 11:00	N
15021701			JW-SB/SG27	GS	JW-SB/SG27-35 3PV	4B71501-05	2/15/2017 11:30	N
15021701			JW-SB/SG27	GS	JW-SB/SG27-5 3PV	47B1501-DUP1	2/15/2017 10:05	LR
15021701			JW-SB/SG27	GS	JW-SB/SG27-5 3PV	4B71501-03	2/15/2017 10:05	N
15021701			JW-SB/SG28	GS	JW-SB/SG28-15 3PV	4B71501-10	2/15/2017 14:00	N
15021701			JW-SB/SG28	GS	JW-SB/SG28-35 3PV	4B71501-11	2/15/2017 14:25	N
15021701			JW-SB/SG28	GS	JW-SB/SG28-5 3PV	4B71501-09	2/15/2017 13:30	N
15021701			JW-SB/SG29	GS	JW-SB/SG29-15 3PV	4B71501-07	2/15/2017 12:30	N
15021701			JW-SB/SG29	GS	JW-SB/SG29-35 3PV	4B71501-08	2/15/2017 13:00	N
15021701			JW-SB/SG29	GS	JW-SB/SG29-5 3PV	4B71501-06	2/15/2017 12:00	N
15021701			JW-SB/SG30	GS	JW-SB/SG30-15 3PV	4B71501-13	2/15/2017 15:25	N
15021701			JW-SB/SG30	GS	JW-SB/SG30-25 3PV	4B71501-14	2/15/2017 15:55	N
15021701			JW-SB/SG30	GS	JW-SB/SG30-35 3PV	4B71501-15	2/15/2017 16:20	N
15021701			JW-SB/SG30	GS	JW-SB/SG30-5 3PV	4B71501-12	2/15/2017 14:55	N

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
		15021701	FIELDQC	GQ	MATERIAL BLANK	4B71501-02	2/15/2017 09:35	AB
		15021701	JW-SB/SG27	GS	JW-SB/SG27-15 3PV	4B71501-04	2/15/2017 11:00	N
		15021701	JW-SB/SG27	GS	JW-SB/SG27-35 3PV	4B71501-05	2/15/2017 11:30	N
		15021701	JW-SB/SG27	GS	JW-SB/SG27-5 3PV	47B1501-DUP1	2/15/2017 10:05	LR
		15021701	JW-SB/SG27	GS	JW-SB/SG27-5 3PV	4B71501-03	2/15/2017 10:05	N
		15021701	JW-SB/SG28	GS	JW-SB/SG28-15 3PV	4B71501-10	2/15/2017 14:00	N
		15021701	JW-SB/SG28	GS	JW-SB/SG28-35 3PV	4B71501-11	2/15/2017 14:25	N

Automated Data Review Detail Report for 4B71501
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Field Batch Report

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
		15021701	JW-SB/SG28	GS	JW-SB/SG28-5 3PV	4B71501-09	2/15/2017 13:30	N
		15021701	JW-SB/SG29	GS	JW-SB/SG29-15 3PV	4B71501-07	2/15/2017 12:30	N
		15021701	JW-SB/SG29	GS	JW-SB/SG29-35 3PV	4B71501-08	2/15/2017 13:00	N
		15021701	JW-SB/SG29	GS	JW-SB/SG29-5 3PV	4B71501-06	2/15/2017 12:00	N
		15021701	JW-SB/SG30	GS	JW-SB/SG30-15 3PV	4B71501-13	2/15/2017 15:25	N
		15021701	JW-SB/SG30	GS	JW-SB/SG30-25 3PV	4B71501-14	2/15/2017 15:55	N
		15021701	JW-SB/SG30	GS	JW-SB/SG30-35 3PV	4B71501-15	2/15/2017 16:20	N
		15021701	JW-SB/SG30	GS	JW-SB/SG30-5 3PV	4B71501-12	2/15/2017 14:55	N

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Blank	47B1501-BLK1 (LB) / 47B1501-BLK1	1 / 1.00	1,4-Dioxane (p-Dioxane)	17600 (ug/m3)	*U/None	< 16000	< 50000	B1		1	17600
LCS Recovery	47B1501-BS1 (BS) / 47B1501-BS1	1 / 1.00	m,p-Xylene	196 (percent)	J/None	60 - 150	10 - 160	L			
LCS Recovery	47B1501-BS2 (BS) / 47B1501-BS2	1 / 1.00	1,4-Dioxane (p-Dioxane)	960 (percent)	J/None	60 - 150	10 - 160	L			

Rule is the multiplier used when blank contamination occurs to determine action level.

Qualified Results

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
EQUIPMENT BLANK_20170215	4B71501-01	GQ	EB	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG27-15 3PV	4B71501-04	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG27-35 3PV	4B71501-05	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG27-5 3PV	4B71501-03	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG28-15 3PV	4B71501-10	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG28-15 3PV	4B71501-10	GS	N	Chloromethane	500	310	310 J		UG/M3	TR
JW-SB/SG28-35 3PV	4B71501-11	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG28-5 3PV	4B71501-09	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG29-15 3PV	4B71501-07	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG29-35 3PV	4B71501-08	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG29-35 3PV	4B71501-08	GS	N	cis-1,2-Dichloroethylene	200	170	170 J		UG/M3	TR
JW-SB/SG29-5 3PV	4B71501-06	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG30-15 3PV	4B71501-13	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG30-25 3PV	4B71501-14	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG30-35 3PV	4B71501-15	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG30-35 3PV	4B71501-15	GS	N	trans-1,2-Dichloroethene	200	140	140 J		UG/M3	TR
JW-SB/SG30-5 3PV	4B71501-12	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
MATERIAL BLANK	4B71501-02	GQ	AB	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X

Detected Results

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JW-SB/SG27-35 3PV	4B71501-05	GS	N	1	1,1-Dichloroethene	100	570	570	UG/M3	
JW-SB/SG27-35 3PV	4B71501-05	GS	N	1	Tetrachloroethene (PCE)	100	380	380	UG/M3	
JW-SB/SG27-35 3PV	4B71501-05	GS	N	1	Trichloroethene (TCE)	100	3300	3300	UG/M3	
JW-SB/SG28-15 3PV	4B71501-10	GS	N	1	Chloromethane	500	310	310 J	UG/M3	TR
JW-SB/SG28-15 3PV	4B71501-10	GS	N	1	Trichloroethene (TCE)	100	250	250	UG/M3	
JW-SB/SG29-15 3PV	4B71501-07	GS	N	1	Tetrachloroethene (PCE)	100	100	100	UG/M3	
JW-SB/SG29-15 3PV	4B71501-07	GS	N	1	Trichloroethene (TCE)	100	180	180	UG/M3	
JW-SB/SG29-35 3PV	4B71501-08	GS	N	1	1,1-Dichloroethene	100	110	110	UG/M3	
JW-SB/SG29-35 3PV	4B71501-08	GS	N	1	cis-1,2-Dichloroethylene	200	170	170 J	UG/M3	TR
JW-SB/SG29-35 3PV	4B71501-08	GS	N	1	Tetrachloroethene (PCE)	100	290	290	UG/M3	
JW-SB/SG29-35 3PV	4B71501-08	GS	N	1	Trichloroethene (TCE)	100	1300	1300	UG/M3	
JW-SB/SG29-5 3PV	4B71501-06	GS	N	1	Tetrachloroethene (PCE)	100	170	170	UG/M3	
JW-SB/SG30-15 3PV	4B71501-13	GS	N	1	Tetrachloroethene (PCE)	100	120	120	UG/M3	
JW-SB/SG30-15 3PV	4B71501-13	GS	N	1	Trichloroethene (TCE)	100	910	910	UG/M3	
JW-SB/SG30-25 3PV	4B71501-14	GS	N	1	Trichloroethene (TCE)	100	990	990	UG/M3	
JW-SB/SG30-35 3PV	4B71501-15	GS	N	1	cis-1,2-Dichloroethylene	200	1900	1900	UG/M3	
JW-SB/SG30-35 3PV	4B71501-15	GS	N	1	Tetrachloroethene (PCE)	100	830	830	UG/M3	
JW-SB/SG30-35 3PV	4B71501-15	GS	N	1	trans-1,2-Dichloroethene	200	140	140 J	UG/M3	TR
JW-SB/SG30-35 3PV	4B71501-15	GS	N	1	Trichloroethene (TCE)	100	7200	7200	UG/M3	

Rejected Results

--No Records Found--

Facility:	Jervis-Webb Superfund Site
Event:	February 2017 Soil Gas Sampling
Guidance Document:	Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015
Contract Laboratory:	ENVIRONMENTAL SUPPORT TECHNOLOGIES, IRVINE, CA
Field Contractor:	Gilbane Company, Walnut Creek, CA
Data Review Contractor:	
SDG:	4B71601, Certified - 4/3/2017 by wtse
QC Level:	S2BVEM (Tier 1B)
Project Manager:	Don Gruber - Gilbane
Data Reviewer:	Tom Beer - Gilbane
Data Reviewer Title:	Project Chemist
Date of Review Report:	4/10/2017

Analytical Method/ Leach Method	Normal Gaseous Samples	Field QC Gaseous Samples
SW8260B/NONE	16	1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by ENVIRONMENTAL SUPPORT TECHNOLOGIES, IRVINE, CA and were reported under sample delivery group (SDG) 4B71601. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Lab Replicate RPD
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Field Duplicate
- Initial Calibration Verification
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 18 results (1.68%) out of the 1071 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Analytical Method	Comment
8260B	All 1,4-dioxane results have raised reporting limits (X) due to poor field lab techniques for heating samples and recovering measurable analyte concentrations. No non-detects were qualified.
8260B	No data were rejected.
8260B	One result for cis-1,2-DCE was estimated (J) due to poor precision (D5) with the fixed lab result by TO-15.

J. Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2017.04.10 17:04:01 -07'00'

April 10, 2017

Reviewed by ,

Qualified Results

Test Method: SW8260B	Extraction Method: NONE		Leach Method: NONE		Matrix: GQ			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
EQUIPMENT BLANK	EB	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X

Test Method: SW8260B	Extraction Method: NONE		Leach Method: NONE		Matrix: GS			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-SB/SG31-15 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG31-25 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG31-25 3PV	N	cis-1,2-Dichloroethylene	200	200 U	200 UJ		UG/M3	D5
JW-SB/SG31-35 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG31-35 3PV	N	trans-1,2-Dichloroethene	200	130	130 J		UG/M3	TR
JW-SB/SG31-5 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG32-15 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG32-25 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG32-25 3PV	N	m,p-Xylene	500	100	100 J		UG/M3	TR
JW-SB/SG32-25 3PV	N	p-Cymene (p-Isopropyltoluene)	500	110	110 J		UG/M3	TR
JW-SB/SG32-25 3PV	N	Toluene	500	430	430 J		UG/M3	TR
JW-SB/SG32-35 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG32-5 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG33-15 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG33-25 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG33-25 3PV	N	cis-1,2-Dichloroethylene	200	130	130 J		UG/M3	TR
JW-SB/SG33-35 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG33-35 3PV	N	trans-1,2-Dichloroethene	200	170	170 J		UG/M3	TR
JW-SB/SG33-5 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG34-15 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG34-25 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG34-25 3PV	N	trans-1,2-Dichloroethene	200	170	170 J		UG/M3	TR
JW-SB/SG34-35 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG34-5 3PV	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X

Reason Code Definitions

Code	Definition
D5	Field duplicate precision
L	Percent recovery of laboratory control sample recovery was outside established limits
TR	Trace Level Detect
X	Raised reporting limit

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for 4B71601
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: SW8260B Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	GQ	LABQC	47B1601-BS1	NA	1/1	2/16/2017 06:49		2/16/2017 06:49	/	BS
LABQC	GQ	LABQC	47B1601-BS2	NA	1/1	2/16/2017 07:52		2/16/2017 07:52	/	BS
LABQC	GQ	LABQC	47B1601-BLK1	NA	1/1	2/16/2017 08:59		2/16/2017 08:59	/	LB
FIELDQC	GQ	EQUIPMENT BLANK	4B71601-01	NA	1/1	2/15/2017 09:05		2/16/2017 09:30	/	EB
FIELDQC	GQ	EQUIPMENT BLANK	4B71601-01	NA	1/1	2/16/2017 09:15		2/16/2017 09:30	/	EB
JW-SB/SG34	GS	JW-SB/SG34-5 3PV	4B71601-02	NA	1/1	2/16/2017 09:45		2/16/2017 09:59	/	N
JW-SB/SG34	GS	JW-SB/SG34-5 3PV	47B1601-DUP1	NA	1/1	2/16/2017 09:45		2/16/2017 10:28	/	LR
JW-SB/SG34	GS	JW-SB/SG34-15 3PV	4B71601-03	NA	1/1	2/16/2017 10:40		2/16/2017 10:56	/	N
JW-SB/SG34	GS	JW-SB/SG34-25 3PV	4B71601-04	NA	1/1	2/16/2017 11:10		2/16/2017 11:25	/	N
JW-SB/SG34	GS	JW-SB/SG34-35 3PV	4B71601-05	NA	1/1	2/16/2017 11:40		2/16/2017 11:55	/	N
JW-SB/SG32	GS	JW-SB/SG32-5 3PV	4B71601-06	NA	1/1	2/16/2017 12:10		2/16/2017 12:24	/	N
JW-SB/SG32	GS	JW-SB/SG32-15 3PV	4B71601-07	NA	1/1	2/16/2017 12:35		2/16/2017 12:52	/	N
JW-SB/SG32	GS	JW-SB/SG32-25 3PV	4B71601-08	NA	1/1	2/16/2017 13:05		2/16/2017 13:21	/	N
JW-SB/SG32	GS	JW-SB/SG32-35 3PV	4B71601-09	NA	1/1	2/16/2017 13:35		2/16/2017 13:50	/	N
JW-SB/SG33	GS	JW-SB/SG33-5 3PV	4B71601-10	NA	1/1	2/16/2017 14:05		2/16/2017 14:19	/	N
JW-SB/SG33	GS	JW-SB/SG33-15 3PV	4B71601-11	NA	1/1	2/16/2017 14:35		2/16/2017 14:48	/	N
JW-SB/SG33	GS	JW-SB/SG33-25 3PV	4B71601-12	NA	1/1	2/16/2017 15:00		2/16/2017 15:17	/	N
JW-SB/SG33	GS	JW-SB/SG33-35 3PV	4B71601-13	NA	1/1	2/16/2017 15:30		2/16/2017 15:46	/	N
JW-SB/SG31	GS	JW-SB/SG31-5 3PV	4B71601-14	NA	1/1	2/16/2017 16:00		2/16/2017 16:15	/	N
JW-SB/SG31	GS	JW-SB/SG31-15 3PV	4B71601-15	NA	1/1	2/16/2017 16:30		2/16/2017 16:44	/	N
JW-SB/SG31	GS	JW-SB/SG31-25 3PV	4B71601-16	NA	1/1	2/16/2017 16:55		2/16/2017 17:13	/	N
JW-SB/SG31	GS	JW-SB/SG31-35 3PV	4B71601-17	NA	1/1	2/16/2017 17:25		2/16/2017 17:42	/	N

Field Batch Report

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
16021701			FIELDQC	GQ	EQUIPMENT BLANK	4B71601-01	2/16/2017 09:15	EB
16021701			JW-SB/SG31	GS	JW-SB/SG31-15 3PV	4B71601-15	2/16/2017 16:30	N
16021701			JW-SB/SG31	GS	JW-SB/SG31-25 3PV	4B71601-16	2/16/2017 16:55	N
16021701			JW-SB/SG31	GS	JW-SB/SG31-35 3PV	4B71601-17	2/16/2017 17:25	N
16021701			JW-SB/SG31	GS	JW-SB/SG31-5 3PV	4B71601-14	2/16/2017 16:00	N
16021701			JW-SB/SG32	GS	JW-SB/SG32-15 3PV	4B71601-07	2/16/2017 12:35	N
16021701			JW-SB/SG32	GS	JW-SB/SG32-25 3PV	4B71601-08	2/16/2017 13:05	N
16021701			JW-SB/SG32	GS	JW-SB/SG32-35 3PV	4B71601-09	2/16/2017 13:35	N
16021701			JW-SB/SG32	GS	JW-SB/SG32-5 3PV	4B71601-06	2/16/2017 12:10	N
16021701			JW-SB/SG33	GS	JW-SB/SG33-15 3PV	4B71601-11	2/16/2017 14:35	N
16021701			JW-SB/SG33	GS	JW-SB/SG33-25 3PV	4B71601-12	2/16/2017 15:00	N
16021701			JW-SB/SG33	GS	JW-SB/SG33-35 3PV	4B71601-13	2/16/2017 15:30	N
16021701			JW-SB/SG33	GS	JW-SB/SG33-5 3PV	4B71601-10	2/16/2017 14:05	N
16021701			JW-SB/SG34	GS	JW-SB/SG34-15 3PV	4B71601-03	2/16/2017 10:40	N
16021701			JW-SB/SG34	GS	JW-SB/SG34-25 3PV	4B71601-04	2/16/2017 11:10	N
16021701			JW-SB/SG34	GS	JW-SB/SG34-35 3PV	4B71601-05	2/16/2017 11:40	N
16021701			JW-SB/SG34	GS	JW-SB/SG34-5 3PV	47B1601-DUP1	2/16/2017 09:45	LR
16021701			JW-SB/SG34	GS	JW-SB/SG34-5 3PV	4B71601-02	2/16/2017 09:45	N

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
15021701			FIELDQC	GQ	EQUIPMENT BLANK	4B71601-01	2/15/2017 09:05	EB

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
LCS Recovery	47B1601-BS1 (BS) / 47B1601-BS1	1 / 1.00	m,p-Xylene	208 (percent)	J/None	60 - 150	10 - 160	L			

Rule is the multiplier used when blank contamination occurs to determine action level.

Qualified Results

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
EQUIPMENT BLANK	4B71601-01	GQ	EB	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG31-15 3PV	4B71601-15	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG31-25 3PV	4B71601-16	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG31-25 3PV	4B71601-16	GS	N	cis-1,2-Dichloroethylene	200	200 U	200 UJ		UG/M3	D5
JW-SB/SG31-35 3PV	4B71601-17	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG31-35 3PV	4B71601-17	GS	N	trans-1,2-Dichloroethene	200	130	130 J		UG/M3	TR
JW-SB/SG31-5 3PV	4B71601-14	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG32-15 3PV	4B71601-07	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG32-25 3PV	4B71601-08	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG32-25 3PV	4B71601-08	GS	N	m,p-Xylene	500	100	100 J		UG/M3	TR
JW-SB/SG32-25 3PV	4B71601-08	GS	N	p-Cymene (p-Isopropyltoluene)	500	110	110 J		UG/M3	TR
JW-SB/SG32-25 3PV	4B71601-08	GS	N	Toluene	500	430	430 J		UG/M3	TR
JW-SB/SG32-35 3PV	4B71601-09	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG32-5 3PV	4B71601-06	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG33-15 3PV	4B71601-11	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG33-25 3PV	4B71601-12	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG33-25 3PV	4B71601-12	GS	N	cis-1,2-Dichloroethylene	200	130	130 J		UG/M3	TR
JW-SB/SG33-35 3PV	4B71601-13	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG33-35 3PV	4B71601-13	GS	N	trans-1,2-Dichloroethene	200	170	170 J		UG/M3	TR
JW-SB/SG33-5 3PV	4B71601-10	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG34-15 3PV	4B71601-03	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG34-25 3PV	4B71601-04	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG34-25 3PV	4B71601-04	GS	N	trans-1,2-Dichloroethene	200	170	170 J		UG/M3	TR
JW-SB/SG34-35 3PV	4B71601-05	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X
JW-SB/SG34-5 3PV	4B71601-02	GS	N	1,4-Dioxane (p-Dioxane)	50000	50000 U	50000 U		UG/M3	X

Detected Results

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JW-SB/SG31-15 3PV	4B71601-15	GS	N	1	Tetrachloroethene (PCE)	100	600	600	UG/M3	
JW-SB/SG31-15 3PV	4B71601-15	GS	N	1	Trichloroethene (TCE)	100	2800	2800	UG/M3	
JW-SB/SG31-25 3PV	4B71601-16	GS	N	1	Trichloroethene (TCE)	100	4500	4500	UG/M3	
JW-SB/SG31-35 3PV	4B71601-17	GS	N	1	cis-1,2-Dichloroethylene	200	1300	1300	UG/M3	
JW-SB/SG31-35 3PV	4B71601-17	GS	N	1	Tetrachloroethene (PCE)	100	9300	9300	UG/M3	
JW-SB/SG31-35 3PV	4B71601-17	GS	N	1	trans-1,2-Dichloroethene	200	130	130 J	UG/M3	TR
JW-SB/SG31-35 3PV	4B71601-17	GS	N	1	Trichloroethene (TCE)	100	19000	19000	UG/M3	
JW-SB/SG31-5 3PV	4B71601-14	GS	N	1	Tetrachloroethene (PCE)	100	740	740	UG/M3	
JW-SB/SG31-5 3PV	4B71601-14	GS	N	1	Trichloroethene (TCE)	100	790	790	UG/M3	
JW-SB/SG32-15 3PV	4B71601-07	GS	N	1	Tetrachloroethene (PCE)	100	160	160	UG/M3	
JW-SB/SG32-25 3PV	4B71601-08	GS	N	1	m,p-Xylene	500	100	100 J	UG/M3	TR
JW-SB/SG32-25 3PV	4B71601-08	GS	N	1	p-Cymene (p-Isopropyltoluene)	500	110	110 J	UG/M3	TR
JW-SB/SG32-25 3PV	4B71601-08	GS	N	1	Toluene	500	430	430 J	UG/M3	TR
JW-SB/SG32-35 3PV	4B71601-09	GS	N	1	Tetrachloroethene (PCE)	100	5800	5800	UG/M3	
JW-SB/SG32-35 3PV	4B71601-09	GS	N	1	Trichloroethene (TCE)	100	5300	5300	UG/M3	
JW-SB/SG33-15 3PV	4B71601-11	GS	N	1	Tetrachloroethene (PCE)	100	440	440	UG/M3	
JW-SB/SG33-15 3PV	4B71601-11	GS	N	1	Trichloroethene (TCE)	100	1900	1900	UG/M3	
JW-SB/SG33-25 3PV	4B71601-12	GS	N	1	cis-1,2-Dichloroethylene	200	130	130 J	UG/M3	TR
JW-SB/SG33-25 3PV	4B71601-12	GS	N	1	Trichloroethene (TCE)	100	4100	4100	UG/M3	
JW-SB/SG33-35 3PV	4B71601-13	GS	N	1	cis-1,2-Dichloroethylene	200	1900	1900	UG/M3	
JW-SB/SG33-35 3PV	4B71601-13	GS	N	1	Tetrachloroethene (PCE)	100	7800	7800	UG/M3	
JW-SB/SG33-35 3PV	4B71601-13	GS	N	1	trans-1,2-Dichloroethene	200	170	170 J	UG/M3	TR
JW-SB/SG33-35 3PV	4B71601-13	GS	N	1	Trichloroethene (TCE)	100	20000	20000	UG/M3	
JW-SB/SG33-5 3PV	4B71601-10	GS	N	1	Tetrachloroethene (PCE)	100	380	380	UG/M3	
JW-SB/SG33-5 3PV	4B71601-10	GS	N	1	Trichloroethene (TCE)	100	550	550	UG/M3	
JW-SB/SG34-25 3PV	4B71601-04	GS	N	1	1,1-Dichloroethene	100	200	200	UG/M3	
JW-SB/SG34-25 3PV	4B71601-04	GS	N	1	cis-1,2-Dichloroethylene	200	1200	1200	UG/M3	

Detected Results

Test Method: SW8260B Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JW-SB/SG34-25 3PV	4B71601-04	GS	N	1	Tetrachloroethene (PCE)	100	100	100	UG/M3	
JW-SB/SG34-25 3PV	4B71601-04	GS	N	1	Toluene	500	550	550	UG/M3	
JW-SB/SG34-25 3PV	4B71601-04	GS	N	1	trans-1,2-Dichloroethene	200	170	170 J	UG/M3	TR
JW-SB/SG34-25 3PV	4B71601-04	GS	N	1	Trichloroethene (TCE)	100	4300	4300	UG/M3	
JW-SB/SG34-35 3PV	4B71601-05	GS	N	1	cis-1,2-Dichloroethylene	200	860	860	UG/M3	
JW-SB/SG34-35 3PV	4B71601-05	GS	N	1	Tetrachloroethene (PCE)	100	5000	5000	UG/M3	
JW-SB/SG34-35 3PV	4B71601-05	GS	N	1	Trichloroethene (TCE)	100	4800	4800	UG/M3	
JW-SB/SG34-5 3PV	4B71601-02	GS	N	1	Tetrachloroethene (PCE)	100	740	740	UG/M3	

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 15-03-0853

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CALSCIENCE ENVIRONMENTAL LABS, INC., GARDEN GROVE, CA

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: 15-03-0853, Certified - 4/2/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 15-03-0853

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
SW7196A/NONE	2	0

AUTOMATED DATA REVIEW SUMMARY for 15-03-0853

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CALSCIENCE ENVIRONMENTAL LABS, INC., GARDEN GROVE, CA and were reported under sample delivery group (SDG) 15-03-0853. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- LCS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Field Duplicate RPD
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 15-03-0853

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 2 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked Test America lab report and COC as received.

No sample receipt issues or calibration anomalies were noted.

No data qualifiers were added.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 16:53:21 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 15-03-0853

Batch Report

Test Method: SW7196A; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
F0316CRL1	F0316CRL1	NA	LABQC	SQ	LABQC	099-05-001-5326		1/0.025	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	BS
	F0316CRL1	NA	LABQC	SQ	LABQC	099-05-001-5326		1/1	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	LB
F0316CRS1	F0316CRL1	NA	JW-SB27	SO	JW-SB27-20	15-03-0853-1-A		1/1	10-Mar-2015 9:40 AM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	N
	F0316CRL1	NA	JW-SB27	SO	JW-SB27-30	15-03-0853-2-A		1/1	10-Mar-2015 9:50 AM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	N

AUTOMATED DATA REVIEW SUMMARY for 15-03-0853

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

--No Records Found--

Detected Results

--No Records Found--

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 15-03-1061

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CALSCIENCE ENVIRONMENTAL LABS, INC., GARDEN GROVE, CA

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: 15-03-1061, Certified - 4/2/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 15-03-1061

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
SW7196A/NONE	3	1

AUTOMATED DATA REVIEW SUMMARY for 15-03-1061

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CALSCIENCE ENVIRONMENTAL LABS, INC., GARDEN GROVE, CA and were reported under sample delivery group (SDG) 15-03-1061. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 15-03-1061

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 4 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked Test America lab report and COC as received.

No sample receipt issues or calibration anomalies were noted.

No data qualifiers were added.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 16:56:16 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 15-03-1061

Batch Report

Test Method: SW7196A; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
F0316CRL1	F0316CRL1	NA	LABQC	SQ	LABQC	099-05-001-5326		1/0.025	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	BS
	F0316CRL1	NA	LABQC	SQ	LABQC	099-05-001-5326		1/1	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	LB
F0316CRS1	F0316CRL1	NA	JW-SB/SG13	SO	JW-SB13-15	15-03-1061-2-A		1/1	12-Mar-2015 12:45 PM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	N
	F0316CRL1	NA	JW-SB/SG13	SO	JW-SB13-16	15-03-1061-4-A		1/1	12-Mar-2015 12:50 PM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	FD
	F0316CRL1	NA	JW-SB/SG13	SO	JW-SB13-16	15-03-1061-4-		1/0.025	12-Mar-2015 12:50 PM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	MS
	F0316CRL1	NA	JW-SB/SG13	SO	JW-SB13-16	15-03-1061-4-		1/0.025	12-Mar-2015 12:50 PM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	SD
	F0316CRL1	NA	JW-SB/SG13	SO	JW-SB13-25	15-03-1061-3-A		1/1	12-Mar-2015 1:00 PM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	N
	F0316CRL1	NA	JW-SB/SG13	SO	JW-SB13-5	15-03-1061-1-A		1/1	12-Mar-2015 12:40 PM	16-Mar-2015 4:08 PM	16-Mar-2015 4:08 PM	N

AUTOMATED DATA REVIEW SUMMARY for 15-03-1061

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

--No Records Found--

Detected Results

--No Records Found--

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 15093A

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event
Volatile Organics in Split Soil Gas Samples

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: 15093A, Certified - 5/18/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: July 27, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 15093A

Analytical Method/ Leach Method	Normal Gaseous Samples	Field QC Gaseous Samples
TO15/NONE	9	0

AUTOMATED DATA REVIEW SUMMARY for 15093A

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) 15093A. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Lab Replicate RPD
- LCS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Field Duplicate RPD
- Initial Calibration Verification
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 15093A

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 39 results (13.93%) out of the 280 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewed EPA Region 9 lab report case narrative, and samples COCs.

No sample receipt issues were noted.

Data were qualified for initial (G2) and continuing (C11) calibration issues, lab replicate imprecision (D1), and initial check standard out (J).

Most apparent lab replicate imprecision (D1) were resolved.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.07.27 17:27:16 -07'00'

27-Jul-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 15093A

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JW-SB/SG07	GS	JW-SG07-E15	1504011-03	NA	1/2.14	26-Mar-2015 3:36 PM	16-Apr-2015 10:41 AM	16-Apr-2015 5:04 PM	N
	NA	NA	JW-SB/SG10	GS	JW-SG10-E25	1504011-04RE1	NA	1/7.23	27-Mar-2015 1:55 PM	16-Apr-2015 10:41 AM	17-Apr-2015 2:44 AM	N
	NA	NA	JW-SB/SG10	GS	JW-SG10-E25	1504011-04RE3	NA	1/24.99	27-Mar-2015 1:55 PM	20-Apr-2015 10:21 AM	20-Apr-2015 11:43 PM	N
	NA	NA	JW-SB/SG12	GS	JW-SG12-E35	1504011-05	NA	1/2.06	30-Mar-2015 9:10 AM	16-Apr-2015 10:41 AM	16-Apr-2015 7:35 PM	N
	NA	NA	JW-SB/SG12	GS	JW-SG12-E35	1504011-05RE1	NA	1/7.25	30-Mar-2015 9:10 AM	16-Apr-2015 10:41 AM	17-Apr-2015 3:29 AM	N
	NA	NA	JW-SB/SG14	GS	JW-SG14-E25	B15D068-DUP1	NA	1/23.14	30-Mar-2015 3:06 PM	20-Apr-2015 10:21 AM	20-Apr-2015 6:06 PM	LR
	NA	NA	JW-SB/SG14	GS	JW-SG14-E25	1504011-06	NA	1/2.11	30-Mar-2015 3:06 PM	16-Apr-2015 10:41 AM	16-Apr-2015 8:24 PM	N
	NA	NA	JW-SB/SG14	GS	JW-SG14-E25	1504011-06RE3	NA	1/23.14	30-Mar-2015 3:06 PM	20-Apr-2015 10:21 AM	20-Apr-2015 5:13 PM	N
	NA	NA	JW-SB/SG18	GS	JW-SG18-E5	B15D041-DUP1	NA	1/4.8	25-Mar-2015 10:45 AM	16-Apr-2015 10:41 AM	17-Apr-2015 1:13 AM	LR
	NA	NA	JW-SB/SG18	GS	JW-SG18-E5	1504011-01	NA	1/2.08	25-Mar-2015 10:45 AM	16-Apr-2015 10:41 AM	16-Apr-2015 3:26 PM	N
	NA	NA	JW-SB/SG18	GS	JW-SG18-E5	1504011-01RE1	NA	1/4.8	25-Mar-2015 10:45 AM	16-Apr-2015 10:41 AM	17-Apr-2015 12:27 AM	N
	NA	NA	JW-SB/SG19	GS	JW-SG19-E5	1504011-02	NA	1/2.13	25-Mar-2015 2:59 PM	16-Apr-2015 10:41 AM	16-Apr-2015 4:15 PM	N
	NA	NA	JW-SB/SG19	GS	JW-SG19-E5	1504011-02RE1	NA	1/4.17	25-Mar-2015 2:59 PM	16-Apr-2015 10:41 AM	17-Apr-2015 1:59 AM	N
	NA	NA	JW-SB/SG21	GS	JW-SG21-E5	1504011-09	NA	1/2.06	02-Apr-2015 9:48 AM	16-Apr-2015 10:41 AM	16-Apr-2015 10:52 PM	N
	NA	NA	JW-SB/SG21	GS	JW-SG21-E5	1504011-09RE5	NA	1/39.57	02-Apr-2015 9:48 AM	20-Apr-2015 10:21 AM	20-Apr-2015 10:02 PM	N
	NA	NA	JW-SB/SG22	GS	JW-SG22-E25	1504011-08	NA	1/2.1	01-Apr-2015 1:52 PM	16-Apr-2015 10:41 AM	16-Apr-2015 10:02 PM	N
	NA	NA	JW-SB/SG22	GS	JW-SG22-E25	1504011-08RE3	NA	1/6.62	01-Apr-2015 1:52 PM	20-Apr-2015 10:21 AM	20-Apr-2015 6:52 PM	N
	NA	NA	JW-SB/SG24	GS	JW-SG24-E35	1504011-07	NA	1/2.07	01-Apr-2015 9:32 AM	16-Apr-2015 10:41 AM	16-Apr-2015 9:13 PM	N
	NA	NA	LABQC	GQ	LABQC	B15D041-BS1	NA	1/1	16-Apr-2015 10:41 AM	16-Apr-2015 10:41 AM	16-Apr-2015 11:29 AM	BS
	NA	NA	LABQC	GQ	LABQC	B15D041-BS2	NA	1/1	16-Apr-2015 10:41 AM	16-Apr-2015 10:41 AM	16-Apr-2015 1:02 PM	BS
	NA	NA	LABQC	GQ	LABQC	B15D068-BS1	NA	1/1	20-Apr-2015 10:21 AM	20-Apr-2015 10:21 AM	20-Apr-2015 12:42 PM	BS

AUTOMATED DATA REVIEW SUMMARY for 15093A

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	LABQC	GQ	LABQC	B15D068-BS2	NA	1/1	20-Apr-2015 10:21 AM	20-Apr-2015 10:21 AM	20-Apr-2015 1:51 PM	BS
	NA	NA	LABQC	GQ	LABQC	B15D068-BLK1	NA	1/1	20-Apr-2015 10:21 AM	20-Apr-2015 10:21 AM	20-Apr-2015 3:38 PM	LB
	NA	NA	LABQC	GQ	LABQC	B15D041-BLK1	NA	1/1	16-Apr-2015 10:41 AM	16-Apr-2015 10:41 AM	16-Apr-2015 2:37 PM	LB
	NA	NA	LABQC	GQ	LABQC	B15D060-BLK1	NA	1/1	17-Apr-2015 11:51 AM	17-Apr-2015 11:51 AM	17-Apr-2015 5:25 PM	LB

AUTOMATED DATA REVIEW SUMMARY for 15093A

Field Batch Report

--No Records Found--

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
TO15 / METHOD	Lab Replicate RPD	B15D041-DUP1 (LR)	1 / 5.00	1,1,1-Trichloroethane	200	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D041-DUP1 (LR)	1 / 5.00	Toluene	200	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D041-DUP1 (LR)	1 / 5.00	Trichloroethene (TCE)	200	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D068-DUP1 (LR)	1 / 23.00	1,1,1-Trichloroethane	200	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D068-DUP1 (LR)	1 / 23.00	1,1-Dichloroethane	200	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D068-DUP1 (LR)	1 / 23.00	1,1-Dichloroethene	200	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D068-DUP1 (LR)	1 / 23.00	1,2,4-Trimethylbenzene	200	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D068-DUP1 (LR)	1 / 23.00	Benzene	200	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D068-DUP1 (LR)	1 / 23.00	cis-1,2-Dichloroethylene	200	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D068-DUP1 (LR)	1 / 23.00	m,p-Xylene	200	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D068-DUP1 (LR)	1 / 23.00	Methylene Chloride	193	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D068-DUP1 (LR)	1 / 23.00	Toluene	200	RPD	J/None	< 25	< 50	D1		RPD	
TO15 / METHOD	Lab Replicate RPD	B15D068-DUP1 (LR)	1 / 23.00	trans-1,2-Dichloroethene	200	RPD	J/None	< 25	< 50	D1		RPD	

AUTOMATED DATA REVIEW SUMMARY for 15093A

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SG07-E15	N	1,2,4-Trichlorobenzene	20.0	20.0 U	20.0 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG07-E15	N	1,2,4-Trimethylbenzene	10.0	6.0	6.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG07-E15	N	1,4-Dioxane (p-Dioxane)	8.0	8.0 U	8.0 UJ	UG/M3	C11/G2
TO15/NONE	GS	JW-SG07-E15	N	Benzene	7.0	4.0	4.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG07-E15	N	m,p-Xylene	20.0	10.0	10.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG07-E15	N	Naphthalene	10.0	10.0 U	10.0 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG10-E25	N	1,1,2,2-Tetrachloroethane	200	200 U	200 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG10-E25	N	1,1-Dichloroethene	100	60.0	60.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG10-E25	N	1,2,4-Trichlorobenzene	200	200 U	200 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG10-E25	N	1,4-Dioxane (p-Dioxane)	90.0	90.0 U	90.0 UJ	UG/M3	C11/G2
TO15/NONE	GS	JW-SG10-E25	N	cis-1,2-Dichloroethylene	100	50.0	50.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG10-E25	N	Naphthalene	100	100 U	100 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG12-E35	N	1,2,4-Trimethylbenzene	10.0	8.0	8.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG12-E35	N	1,4-Dioxane (p-Dioxane)	7.0	7.0 U	7.0 UJ	UG/M3	C11
TO15/NONE	GS	JW-SG12-E35	N	m,p-Xylene	20.0	10.0	10.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG12-E35	N	o-Xylene	9.0	6.0	6.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG12-E35	N	Vinyl Chloride	5.0	60.0	60.0 J	UG/M3	J
TO15/NONE	GS	JW-SG14-E25	N	1,1,1-Trichloroethane	10.0	80.0	80.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG14-E25	N	1,1-Dichloroethane	9.0	20.0	20.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG14-E25	N	1,1-Dichloroethene	8.0	70.0	70.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG14-E25	N	1,2,4-Trimethylbenzene	10.0	7.0	7.0 J	UG/M3	D1/TR
TO15/NONE	GS	JW-SG14-E25	N	1,4-Dioxane (p-Dioxane)	8.0	8.0 U	8.0 UJ	UG/M3	C11
TO15/NONE	GS	JW-SG14-E25	N	Benzene	7.0	30.0	30.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG14-E25	N	cis-1,2-Dichloroethylene	8.0	20.0	20.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG14-E25	N	m,p-Xylene	20.0	9.0	9.0 J	UG/M3	D1/TR
TO15/NONE	GS	JW-SG14-E25	N	Methylene Chloride	7.0	5.0	5.0 J	UG/M3	D1/TR
TO15/NONE	GS	JW-SG14-E25	N	Toluene	8.0	20.0	20.0 J	UG/M3	D1

AUTOMATED DATA REVIEW SUMMARY for 15093A

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SG14-E25	N	trans-1,2-Dichloroethene	8.0	6.0	6.0 J	UG/M3	D1/TR
TO15/NONE	GS	JW-SG18-E5	N	1,1,1-Trichloroethane	10.0	30.0	30.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG18-E5	N	1,2,4-Trichlorobenzene	20.0	20.0 U	20.0 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG18-E5	N	1,4-Dioxane (p-Dioxane)	7.0	7.0 U	7.0 UJ	UG/M3	C11/G2
TO15/NONE	GS	JW-SG18-E5	N	Naphthalene	10.0	10.0 U	10.0 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG18-E5	N	Toluene	8.0	8.0	8.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG18-E5	N	Trichloroethene (TCE)	10.0	40.0	40.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG19-E5	N	1,1-Dichloroethene	8.0	5.0	5.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG19-E5	N	1,2,4-Trichlorobenzene	20.0	20.0 U	20.0 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG19-E5	N	1,2,4-Trimethylbenzene	10.0	9.0	9.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG19-E5	N	1,4-Dioxane (p-Dioxane)	8.0	8.0 U	8.0 UJ	UG/M3	C11/G2
TO15/NONE	GS	JW-SG19-E5	N	Naphthalene	10.0	10.0 U	10.0 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG21-E5	N	1,2,4-Trichlorobenzene	20.0	20.0 U	20.0 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG21-E5	N	1,4-Dioxane (p-Dioxane)	7.0	7.0 U	7.0 UJ	UG/M3	C11/G2
TO15/NONE	GS	JW-SG21-E5	N	Benzene	7.0	5.0	5.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG21-E5	N	Chloroform	10.0	5.0	5.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG21-E5	N	Naphthalene	10.0	10.0 U	10.0 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG21-E5	N	Toluene	8.0	4.0	4.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG22-E25	N	1,2,4-Trichlorobenzene	20.0	20.0 U	20.0 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG22-E25	N	1,4-Dioxane (p-Dioxane)	8.0	8.0 U	8.0 UJ	UG/M3	C11/G2
TO15/NONE	GS	JW-SG22-E25	N	Naphthalene	10.0	10.0 U	10.0 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG22-E25	N	Vinyl Chloride	5.0	50.0	50.0 J	UG/M3	J
TO15/NONE	GS	JW-SG24-E35	N	1,2,4-Trichlorobenzene	20.0	20.0 U	20.0 UJ	UG/M3	G2
TO15/NONE	GS	JW-SG24-E35	N	1,4-Dioxane (p-Dioxane)	7.0	7.0 U	7.0 UJ	UG/M3	C11/G2
TO15/NONE	GS	JW-SG24-E35	N	Benzene	7.0	3.0	3.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG24-E35	N	Chloroform	10.0	6.0	6.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG24-E35	N	Naphthalene	10.0	10.0 U	10.0 UJ	UG/M3	G2

AUTOMATED DATA REVIEW SUMMARY for 15093A

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SG24-E35	N	Toluene	8.0	4.0	4.0 J	UG/M3	TR

AUTOMATED DATA REVIEW SUMMARY for 15093A

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SG07-E15	N	Benzene	7.0	4.0	4.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG07-E15	N	Toluene	8.0	10.0	10.0	UG/M3	
TO15/NONE	GS	JW-SG07-E15	N	1,2,4-Trimethylbenzene	10.0	6.0	6.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG07-E15	N	m,p-Xylene	20.0	10.0	10.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG10-E25	N	1,1-Dichloroethene	100	60.0	60.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG10-E25	N	cis-1,2-Dichloroethylene	100	50.0	50.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG10-E25	N	Tetrachloroethene (PCE)	200	1000	1000	UG/M3	
TO15/NONE	GS	JW-SG10-E25	N	Trichloroethene (TCE)	400	4300	4300	UG/M3	
TO15/NONE	GS	JW-SG12-E35	N	Benzene	7.0	10.0	10.0	UG/M3	
TO15/NONE	GS	JW-SG12-E35	N	Toluene	8.0	30.0	30.0	UG/M3	
TO15/NONE	GS	JW-SG12-E35	N	1,1-Dichloroethane	8.0	20.0	20.0	UG/M3	
TO15/NONE	GS	JW-SG12-E35	N	1,1-Dichloroethene	300	400	400	UG/M3	
TO15/NONE	GS	JW-SG12-E35	N	cis-1,2-Dichloroethylene	300	700	700	UG/M3	
TO15/NONE	GS	JW-SG12-E35	N	trans-1,2-Dichloroethene	8.0	100	100	UG/M3	
TO15/NONE	GS	JW-SG12-E35	N	Tetrachloroethene (PCE)	500	600	600	UG/M3	
TO15/NONE	GS	JW-SG12-E35	N	Trichloroethene (TCE)	400	3900	3900	UG/M3	
TO15/NONE	GS	JW-SG12-E35	N	1,2,4-Trimethylbenzene	10.0	8.0	8.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG12-E35	N	Vinyl Chloride	5.0	60.0	60.0 J	UG/M3	J
TO15/NONE	GS	JW-SG12-E35	N	m,p-Xylene	20.0	10.0	10.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG12-E35	N	o-Xylene	9.0	6.0	6.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG14-E25	N	Benzene	7.0	30.0	30.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG14-E25	N	Toluene	8.0	20.0	20.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG14-E25	N	1,1-Dichloroethane	9.0	20.0	20.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG14-E25	N	1,1-Dichloroethene	8.0	70.0	70.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG14-E25	N	cis-1,2-Dichloroethylene	8.0	20.0	20.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG14-E25	N	trans-1,2-Dichloroethene	8.0	6.0	6.0 J	UG/M3	D1/TR
TO15/NONE	GS	JW-SG14-E25	N	Methylene Chloride	7.0	5.0	5.0 J	UG/M3	D1/TR

AUTOMATED DATA REVIEW SUMMARY for 15093A

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SG14-E25	N	Tetrachloroethene (PCE)	1000	8500	8500	UG/M3	
TO15/NONE	GS	JW-SG14-E25	N	1,1,1-Trichloroethane	10.0	80.0	80.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG14-E25	N	Trichloroethene (TCE)	800	3500	3500	UG/M3	
TO15/NONE	GS	JW-SG14-E25	N	1,2,4-Trimethylbenzene	10.0	7.0	7.0 J	UG/M3	D1/TR
TO15/NONE	GS	JW-SG14-E25	N	m,p-Xylene	20.0	9.0	9.0 J	UG/M3	D1/TR
TO15/NONE	GS	JW-SG18-E5	N	Toluene	8.0	8.0	8.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG18-E5	N	Tetrachloroethene (PCE)	100	400	400	UG/M3	
TO15/NONE	GS	JW-SG18-E5	N	1,1,1-Trichloroethane	10.0	30.0	30.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG18-E5	N	Trichloroethene (TCE)	10.0	40.0	40.0 J	UG/M3	D1
TO15/NONE	GS	JW-SG19-E5	N	Benzene	7.0	10.0	10.0	UG/M3	
TO15/NONE	GS	JW-SG19-E5	N	Toluene	8.0	60.0	60.0	UG/M3	
TO15/NONE	GS	JW-SG19-E5	N	1,1-Dichloroethene	8.0	5.0	5.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG19-E5	N	Ethylbenzene	9.0	9.0	9.0	UG/M3	
TO15/NONE	GS	JW-SG19-E5	N	Tetrachloroethene (PCE)	100	300	300	UG/M3	
TO15/NONE	GS	JW-SG19-E5	N	Trichloroethene (TCE)	10.0	200	200	UG/M3	
TO15/NONE	GS	JW-SG19-E5	N	1,2,4-Trimethylbenzene	10.0	9.0	9.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG19-E5	N	m,p-Xylene	20.0	30.0	30.0	UG/M3	
TO15/NONE	GS	JW-SG19-E5	N	o-Xylene	9.0	10.0	10.0	UG/M3	
TO15/NONE	GS	JW-SG21-E5	N	Benzene	7.0	5.0	5.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG21-E5	N	Toluene	8.0	4.0	4.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG21-E5	N	Tetrachloroethene (PCE)	300	500	500	UG/M3	
TO15/NONE	GS	JW-SG21-E5	N	1,1,1-Trichloroethane	10.0	10.0	10.0	UG/M3	
TO15/NONE	GS	JW-SG21-E5	N	Trichloroethene (TCE)	10.0	40.0	40.0	UG/M3	
TO15/NONE	GS	JW-SG21-E5	N	Chloroform	10.0	5.0	5.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG22-E25	N	Benzene	7.0	10.0	10.0	UG/M3	
TO15/NONE	GS	JW-SG22-E25	N	Toluene	8.0	9.0	9.0	UG/M3	
TO15/NONE	GS	JW-SG22-E25	N	1,1-Dichloroethane	8.0	9.0	9.0	UG/M3	

AUTOMATED DATA REVIEW SUMMARY for 15093A

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SG22-E25	N	1,1-Dichloroethene	100	200	200	UG/M3	
TO15/NONE	GS	JW-SG22-E25	N	cis-1,2-Dichloroethylene	100	1200	1200	UG/M3	
TO15/NONE	GS	JW-SG22-E25	N	trans-1,2-Dichloroethene	100	100	100	UG/M3	
TO15/NONE	GS	JW-SG22-E25	N	Tetrachloroethene (PCE)	10.0	10.0	10.0	UG/M3	
TO15/NONE	GS	JW-SG22-E25	N	Trichloroethene (TCE)	100	1000	1000	UG/M3	
TO15/NONE	GS	JW-SG22-E25	N	Vinyl Chloride	5.0	50.0	50.0 J	UG/M3	J
TO15/NONE	GS	JW-SG24-E35	N	Benzene	7.0	3.0	3.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG24-E35	N	Toluene	8.0	4.0	4.0 J	UG/M3	TR
TO15/NONE	GS	JW-SG24-E35	N	Tetrachloroethene (PCE)	10.0	200	200	UG/M3	
TO15/NONE	GS	JW-SG24-E35	N	1,1,1-Trichloroethane	10.0	20.0	20.0	UG/M3	
TO15/NONE	GS	JW-SG24-E35	N	Trichloroethene (TCE)	10.0	10.0	10.0	UG/M3	
TO15/NONE	GS	JW-SG24-E35	N	Chloroform	10.0	6.0	6.0 J	UG/M3	TR

AUTOMATED DATA REVIEW SUMMARY for 15093A

Rejected Results

--No Records Found--

Facility:	Jervis-Webb Superfund Site
Event:	August 2016 CPT GW/Soil Gas Sampling
Guidance Document:	Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015
Contract Laboratory:	U.S. EPA, Region 9 Lab, Richmond, CA
Field Contractor:	Gilbane Company, Walnut Creek, CA
Data Review Contractor:	
SDG:	1608029, Certified - 2/27/2018 by wtse
QC Level:	Tier 1A (S2AVEM)
Project Manager:	Don Gruber
Data Reviewer:	Tom Beer
Data Reviewer Title:	Project Chemist
Date of Review Report:	February 02, 2017

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
E524.2/NONE	5	4
SW8270D/NONE	5	3

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) 1608029. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Ambient Blank
- Blank
- Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Duplicate
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Calibration Blank
- Calibration Blank - Negative
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 32 results (5.41%) out of the 591 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report, COC as received and receipt checklist.

Analytical Method	Comment

Data qualifiers were added for blank interferences (A1, K1, K3), minor poor surrogate recoveries (S), and tentatively identified compounds (NJ TI).

The LCS recoveries were resolved. No VOCs or 1,4-dioxane data were rejected.

J. Beer

Digitally signed by Tom Beer
DN: C=US, E=tbeer@gilbaneco.com, OU="", O="", CN=Tom Beer
Date: 2018.03.21 15:38:04-07'00'

February 2, 2017

Reviewed by ,

Qualified Results

Test Method: E524.2	Extraction Method: SW5030		Leach Method: NONE		Matrix: WG			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-CPT20-100	N	1-NONANAL		1.0	1.0 NJ		ug/L	TI
JW-CPT20-100	N	2-methyl propane		1.2	1.2 NJ		ug/L	TI
JW-CPT20-100	N	Acetone	4.0	2.9	4.0 UJ		ug/L	A1/K1/K3
JW-CPT20-100	N	CyclopentaNE		0.80	0.80 NJ		ug/L	TI
JW-CPT20-120	N	1-NONANAL		1.5	1.5 NJ		ug/L	TI
JW-CPT20-120	N	Acetone	4.4	4.4	4.4 UJ		ug/L	A1/K1
JW-CPT20-120	N	DECYL ALDEHYDE		0.70	0.70 NJ		ug/L	TI
JW-CPT20-121	FD	1-NONANAL		1.6	1.6 NJ		ug/L	TI
JW-CPT20-121	FD	2-ethyl-1-HexaNOL		0.80	0.80 NJ		ug/L	TI
JW-CPT20-121	FD	Acetone	5.6	5.6	5.6 UJ		ug/L	A1/K1
JW-CPT20-121	FD	Chloromethane	0.50	0.40	0.40 J		ug/L	TR
JW-CPT20-121	FD	DECYL ALDEHYDE		0.80	0.80 NJ		ug/L	TI
JW-CPT20-132	N	1-NONANAL		0.60	0.60 NJ		ug/L	TI
JW-CPT20-132	N	Acetone	4.0	3.6	4.0 UJ		ug/L	A1/K1/K3
JW-CPT20-64	N	1-NONANAL		4.3	4.3 NJ		ug/L	TI
JW-CPT20-64	N	Acetone	4.0	2.8	4.0 UJ		ug/L	A1/K1/K3
JW-CPT20-64	N	DECYL ALDEHYDE		0.70	0.70 NJ		ug/L	TI
JW-CPT20-64	N	trans-1,2-Dichloroethene	0.50	0.40	0.40 J		ug/L	TR
JW-CPT20-80	N	1,1-Dichloroethane	0.50	0.40	0.40 J		ug/L	TR
JW-CPT20-80	N	1,1-Dichloroethene	0.50	0.30	0.30 J		ug/L	TR
JW-CPT20-80	N	1-NONANAL		6.3	6.3 NJ		ug/L	TI
JW-CPT20-80	N	Acetone	4.5	4.5	4.5 UJ		ug/L	A1/K1
JW-CPT20-80	N	DECYL ALDEHYDE		0.50	0.50 NJ		ug/L	TI
JW-CPT20-80	N	Octanal		0.70	0.70 NJ		ug/L	TI

Test Method: E524.2	Extraction Method: SW5030		Leach Method: NONE		Matrix: WQ			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-EL01-0816	EB	Acetone	4.0	3.8	3.8 J		ug/L	TR
JW-RL01-0816	TB	2-ethyl-1-HexaNOL		1.0	1.0 NJ		ug/L	TI
JW-RL01-0816	TB	Acetone	4.0	2.2	2.2 J		ug/L	TR
JW-RL01-0816	TB	Tetrahydrofuran		0.90	0.90 NJ		ug/L	TI
JW-WL01-0816	AB	Chloromethane	0.50	0.50 U	0.50 UJ		ug/L	S
JW-WL01-0816	AB	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ		ug/L	S

Test Method: SW8270D	Extraction Method: SW3520C		Leach Method: NONE		Matrix: WG			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-CPT20-100	N	1,4-Dioxane (p-Dioxane)	1.9	1.9 U	1.9 UJ		ug/L	C11
JW-CPT20-120	N	1,4-Dioxane (p-Dioxane)	1.0	1.0 U	1.0 UJ		ug/L	C11/S

Qualified Results

Test Method: SW8270D	Extraction Method: SW3520C		Leach Method: NONE		Matrix: WG			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-CPT20-121	FD	1,4-Dioxane (p-Dioxane)	2.0	2.0 U	2.0 UJ		ug/L	C11
JW-CPT20-132	N	1,4-Dioxane (p-Dioxane)	1.0	1.0 U	1.0 UJ		ug/L	C11/S
JW-CPT20-64	N	1,4-Dioxane (p-Dioxane)	1.1	0.50	0.50 J	+	ug/L	C11/TR
JW-CPT20-80	N	1,4-Dioxane (p-Dioxane)	1.9	1.9 U	1.9 UJ		ug/L	C11

Test Method: SW8270D	Extraction Method: SW3520C		Leach Method: NONE		Matrix: WQ			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-EL01-0816	EB	1,4-Dioxane (p-Dioxane)	0.90	0.90 U	0.90 UJ		ug/L	C11
JW-WL01-0816	AB	1,4-Dioxane (p-Dioxane)	1.0	1.0 U	1.0 UJ		ug/L	C11

Reason Code Definitions

Code	Definition
A1	Ambient Blank
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
D5	Field duplicate precision
K1	Detected in the associated equipment rinsate blank.
K3	Detected in the associated trip blank.
L	Percent recovery of laboratory control sample recovery was outside established limits
M	Matrix spike recovery was outside established criteria.
S	Surrogate recovery out of criteria (upper or lower limit)
TI	Tentatively Identified Compound
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for 1608029
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: E524.2 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16H004-SCV1	NA	1/1	8/1/2016 08:33	8/1/2016 08:33	8/8/2016 17:47	NA/	CV
LABQC	WQ	LABQC	B16H055-BS1	NA	1/1	8/17/2016 11:10	8/17/2016 11:10	8/17/2016 12:08	NA/	BS
LABQC	WQ	LABQC	B16H055-BLK1	NA	1/1	8/17/2016 11:10	8/17/2016 11:10	8/17/2016 13:20	NA/	LB
FIELDQC	WQ	JW-WL01-0816	1608029-03	NA	1/1	8/16/2016 11:30	8/17/2016 13:10	8/17/2016 14:01	NA/	AB
FIELDQC	WQ	JW-RL01-0816	1608029-04	NA	1/1	8/16/2016 08:00	8/17/2016 13:10	8/17/2016 14:36	NA/	TB
FIELDQC	WQ	JW-EL01-0816	1608029-09	NA	1/1	8/16/2016 13:30	8/17/2016 13:10	8/17/2016 15:12	NA/	EB
FIELDQC	WQ	JW-WL01-0816	B16H055-MS1	NA	1/1	8/16/2016 11:30	8/17/2016 13:10	8/17/2016 15:47	NA/	MS
FIELDQC	WQ	JW-WL01-0816	B16H055-MSD1	NA	1/1	8/16/2016 11:30	8/17/2016 13:10	8/17/2016 16:22	NA/	SD
JW-CPT20	WG	JW-CPT20-64	1608029-02	NA	1/1	8/16/2016 11:20	8/17/2016 13:10	8/17/2016 17:33	NA/	N
JW-CPT20	WG	JW-CPT20-132	1608029-01	NA	1/1	8/16/2016 10:20	8/17/2016 13:10	8/17/2016 18:08	NA/	N
JW-CPT20	WG	JW-CPT20-80	1608029-05	NA	1/1	8/16/2016 11:40	8/17/2016 13:10	8/17/2016 18:43	NA/	N
JW-CPT20	WG	JW-CPT20-100	1608029-06	NA	1/1	8/16/2016 12:30	8/17/2016 13:10	8/17/2016 19:19	NA/	N
JW-CPT20	WG	JW-CPT20-120	1608029-07	NA	1/1	8/16/2016 13:00	8/17/2016 13:10	8/17/2016 19:54	NA/	N
JW-CPT20	WG	JW-CPT20-121	1608029-08	NA	1/1	8/16/2016 13:10	8/17/2016 13:10	8/17/2016 20:29	NA/	FD
LABQC	WQ	LABQC	B16H096-BS1	NA	1/1	8/18/2016 07:54	8/18/2016 07:54	8/18/2016 09:50	NA/	BS
LABQC	WQ	LABQC	B16H096-BLK1	NA	1/1	8/18/2016 07:54	8/18/2016 07:54	8/18/2016 11:05	NA/	LB
JW-CPT20	WG	JW-CPT20-80	1608029-05RE1	NA	1/1	8/16/2016 11:40	8/18/2016 10:54	8/18/2016 12:16	NA/	N

Test Method: SW8270D Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16F024-SCV1	NA	1/1	6/9/2016 10:09	6/9/2016 10:09	6/9/2016 17:41	NA/	CV
LABQC	WQ	LABQC	B16H098-BLK1	NA	1/1	8/18/2016 11:09	8/18/2016 11:09	8/30/2016 14:29	NA/	LB
LABQC	WQ	LABQC	B16H098-BS1	NA	1/1	8/18/2016 11:09	8/18/2016 11:09	8/30/2016 15:04	NA/	BS
LABQC	WQ	LABQC	B16H098-BS2	NA	1/1	8/18/2016 11:09	8/18/2016 11:09	8/30/2016 15:39	NA/	BS

Batch Report

Test Method: SW8270D Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	B16H098-BS3	NA	1/1	8/18/2016 11:09	8/18/2016 11:09	8/30/2016 16:14	NA/	BS
LABQC	WQ	LABQC	B16H098-BS4	NA	1/1	8/18/2016 11:09	8/18/2016 11:09	8/30/2016 16:49	NA/	BS
JW-CPT20	WG	JW-CPT20-132	1608029-01	NA	1/1	8/16/2016 10:20	8/18/2016 11:09	8/30/2016 17:23	NA/	N
JW-CPT20	WG	JW-CPT20-64	1608029-02	NA	1/1	8/16/2016 11:20	8/18/2016 11:09	8/30/2016 17:58	NA/	N
FIELDQC	WQ	JW-WL01-0816	1608029-03	NA	1/1	8/16/2016 11:30	8/18/2016 11:09	8/30/2016 18:33	NA/	AB
JW-CPT20	WG	JW-CPT20-120	1608029-07	NA	1/1	8/16/2016 13:00	8/18/2016 11:09	8/30/2016 19:07	NA/	N
FIELDQC	WQ	JW-EL01-0816	1608029-09	NA	1/1	8/16/2016 13:30	8/18/2016 11:09	8/30/2016 19:42	NA/	EB
JW-CPT20	WG	JW-CPT20-80	1608029-05	NA	1/1	8/16/2016 11:40	8/18/2016 11:09	8/30/2016 20:16	NA/	N
JW-CPT20	WG	JW-CPT20-100	1608029-06	NA	1/1	8/16/2016 12:30	8/18/2016 11:09	8/30/2016 20:51	NA/	N
JW-CPT20	WG	JW-CPT20-121	1608029-08	NA	1/1	8/16/2016 13:10	8/18/2016 11:09	8/30/2016 21:25	NA/	FD
LABQC	WQ	LABQC	B16H098-BLK2	NA	1/1	8/18/2016 11:09	8/18/2016 11:09	9/1/2016 13:19	NA/	LB

Field Batch Report

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
16081601			FIELDQC	WQ	JW-EL01-0816	1608029-09	8/16/2016 13:30	EB
16081601			JW-CPT20	WG	JW-CPT20-100	1608029-06	8/16/2016 12:30	N
16081601			JW-CPT20	WG	JW-CPT20-120	1608029-07	8/16/2016 13:00	N
16081601			JW-CPT20	WG	JW-CPT20-121	1608029-08	8/16/2016 13:10	FD
16081601			JW-CPT20	WG	JW-CPT20-132	1608029-01	8/16/2016 10:20	N
16081601			JW-CPT20	WG	JW-CPT20-64	1608029-02	8/16/2016 11:20	N
16081601			JW-CPT20	WG	JW-CPT20-80	1608029-05	8/16/2016 11:40	N
16081601			JW-CPT20	WG	JW-CPT20-80	1608029-05RE1	8/16/2016 11:40	N

Test Method: SW8270D Extraction Method: SW3520C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
16081601			FIELDQC	WQ	JW-EL01-0816	1608029-09	8/16/2016 13:30	EB
16081601			JW-CPT20	WG	JW-CPT20-100	1608029-06	8/16/2016 12:30	N
16081601			JW-CPT20	WG	JW-CPT20-120	1608029-07	8/16/2016 13:00	N
16081601			JW-CPT20	WG	JW-CPT20-121	1608029-08	8/16/2016 13:10	FD
16081601			JW-CPT20	WG	JW-CPT20-132	1608029-01	8/16/2016 10:20	N
16081601			JW-CPT20	WG	JW-CPT20-64	1608029-02	8/16/2016 11:20	N
16081601			JW-CPT20	WG	JW-CPT20-80	1608029-05	8/16/2016 11:40	N

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
	16081601		FIELDQC	WQ	JW-RL01-0816	1608029-04	8/16/2016 08:00	TB
	16081601		JW-CPT20	WG	JW-CPT20-100	1608029-06	8/16/2016 12:30	N
	16081601		JW-CPT20	WG	JW-CPT20-120	1608029-07	8/16/2016 13:00	N

Field Batch Report

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
	16081601		JW-CPT20	WG	JW-CPT20-121	1608029-08	8/16/2016 13:10	FD
	16081601		JW-CPT20	WG	JW-CPT20-132	1608029-01	8/16/2016 10:20	N
	16081601		JW-CPT20	WG	JW-CPT20-64	1608029-02	8/16/2016 11:20	N
	16081601		JW-CPT20	WG	JW-CPT20-80	1608029-05	8/16/2016 11:40	N
	16081601		JW-CPT20	WG	JW-CPT20-80	1608029-05RE1	8/16/2016 11:40	N

Test Method: SW8270D Extraction Method: SW3520C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
	16081601		JW-CPT20	WG	JW-CPT20-100	1608029-06	8/16/2016 12:30	N
	16081601		JW-CPT20	WG	JW-CPT20-120	1608029-07	8/16/2016 13:00	N
	16081601		JW-CPT20	WG	JW-CPT20-121	1608029-08	8/16/2016 13:10	FD
	16081601		JW-CPT20	WG	JW-CPT20-132	1608029-01	8/16/2016 10:20	N
	16081601		JW-CPT20	WG	JW-CPT20-64	1608029-02	8/16/2016 11:20	N
	16081601		JW-CPT20	WG	JW-CPT20-80	1608029-05	8/16/2016 11:40	N

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
		16081601	FIELDQC	WQ	JW-WL01-0816	1608029-03	8/16/2016 11:30	AB
		16081601	JW-CPT20	WG	JW-CPT20-100	1608029-06	8/16/2016 12:30	N
		16081601	JW-CPT20	WG	JW-CPT20-120	1608029-07	8/16/2016 13:00	N
		16081601	JW-CPT20	WG	JW-CPT20-121	1608029-08	8/16/2016 13:10	FD
		16081601	JW-CPT20	WG	JW-CPT20-132	1608029-01	8/16/2016 10:20	N
		16081601	JW-CPT20	WG	JW-CPT20-64	1608029-02	8/16/2016 11:20	N
		16081601	JW-CPT20	WG	JW-CPT20-80	1608029-05	8/16/2016 11:40	N

Field Batch Report

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
		16081601	JW-CPT20	WG	JW-CPT20-80	1608029-05RE1	8/16/2016 11:40	N

Test Method: SW8270D Extraction Method: SW3520C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
		16081601	FIELDQC	WQ	JW-WL01-0816	1608029-03	8/16/2016 11:30	AB
		16081601	JW-CPT20	WG	JW-CPT20-100	1608029-06	8/16/2016 12:30	N
		16081601	JW-CPT20	WG	JW-CPT20-120	1608029-07	8/16/2016 13:00	N
		16081601	JW-CPT20	WG	JW-CPT20-121	1608029-08	8/16/2016 13:10	FD
		16081601	JW-CPT20	WG	JW-CPT20-132	1608029-01	8/16/2016 10:20	N
		16081601	JW-CPT20	WG	JW-CPT20-64	1608029-02	8/16/2016 11:20	N
		16081601	JW-CPT20	WG	JW-CPT20-80	1608029-05	8/16/2016 11:40	N

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Ambient Blank	JW-WL01-0816 (AB) / 1608029-03	1 / 1.00	Acetone	4.700 (ug/l)	*U/None	< 2	< 4	A1		2	9.40
Equipment Blank	JW-EL01-0816 (EB) / 1608029-09	1 / 1.00	Acetone	3.800 (ug/l)	*U/None	< 2	< 4	K1		2	7.60
Field Duplicate	JW-CPT20-120 (N) / 1608029-08	1 / 1.00	Chloromethane	200.0 (rpd)	J/None	< 35	< 70	D5			
LCS Recovery	B16H055-BS1 (BS) / B16H055-BS1	1 / 1.00	Dichlorodifluoromethane	132.0 (percent)	J/None	70 - 130	20 - 140	L			
LCS Recovery	B16H096-BS1 (BS) / B16H096-BS1	1 / 1.00	Dichlorodifluoromethane	131.6 (percent)	J/None	70 - 130	20 - 140	L			
MS Recovery	JW-WL01-0816 (MS) / B16H055-MS1	1 / 1.00	Dichlorodifluoromethane	145.6 (percent)	J/None	75 - 130	20 - 140	M			
MS Recovery	JW-WL01-0816 (SD) / B16H055-MSD1	1 / 1.00	Dichlorodifluoromethane	154.2 (percent)	J/None	75 - 130	20 - 140	M			
Trip Blank	JW-RL01-0816 (TB) / 1608029-04	1 / 1.00	Acetone	2.200 (ug/l)	*U/None	< 2	< 4	K3		2	4.40

Test Method: SW8270D Extraction Method: SW3520C Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Continuing Calibration Verification	S16F024-SCV1 (CV) / S16F024-SCV1	1 / 1.00	1,4-Dioxane (p-Dioxane)	110500 (percent)	J/UJ	85 - 115	50 - 125	C11			

Rule is the multiplier used when blank contamination occurs to determine action level.

Qualified Results

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-CPT20-100	1608029-06	WG	N	1-NONANAL		1.00	1.00 NJ		ug/L	TI
JW-CPT20-100	1608029-06	WG	N	2-methyl propane		1.20	1.20 NJ		ug/L	TI
JW-CPT20-100	1608029-06	WG	N	Acetone	4.00	2.90	4.00 UJ		ug/L	A1/K1/K3
JW-CPT20-100	1608029-06	WG	N	CyclopentaNE		0.800	0.800 NJ		ug/L	TI
JW-CPT20-120	1608029-07	WG	N	1-NONANAL		1.50	1.50 NJ		ug/L	TI
JW-CPT20-120	1608029-07	WG	N	Acetone	4.40	4.40	4.40 UJ		ug/L	A1/K1
JW-CPT20-120	1608029-07	WG	N	DECYL ALDEHYDE		0.700	0.700 NJ		ug/L	TI
JW-CPT20-121	1608029-08	WG	FD	1-NONANAL		1.60	1.60 NJ		ug/L	TI
JW-CPT20-121	1608029-08	WG	FD	2-ethyl-1-HexaNOL		0.800	0.800 NJ		ug/L	TI
JW-CPT20-121	1608029-08	WG	FD	Acetone	5.60	5.60	5.60 UJ		ug/L	A1/K1
JW-CPT20-121	1608029-08	WG	FD	Chloromethane	0.500	0.400	0.400 J		ug/L	TR
JW-CPT20-121	1608029-08	WG	FD	DECYL ALDEHYDE		0.800	0.800 NJ		ug/L	TI
JW-CPT20-132	1608029-01	WG	N	1-NONANAL		0.600	0.600 NJ		ug/L	TI
JW-CPT20-132	1608029-01	WG	N	Acetone	4.00	3.60	4.00 UJ		ug/L	A1/K1/K3
JW-CPT20-64	1608029-02	WG	N	1-NONANAL		4.30	4.30 NJ		ug/L	TI
JW-CPT20-64	1608029-02	WG	N	Acetone	4.00	2.80	4.00 UJ		ug/L	A1/K1/K3
JW-CPT20-64	1608029-02	WG	N	DECYL ALDEHYDE		0.700	0.700 NJ		ug/L	TI
JW-CPT20-64	1608029-02	WG	N	trans-1,2-Dichloroethene	0.500	0.400	0.400 J		ug/L	TR
JW-CPT20-80	1608029-05	WG	N	1,1-Dichloroethane	0.500	0.400	0.400 J		ug/L	TR
JW-CPT20-80	1608029-05	WG	N	1,1-Dichloroethene	0.500	0.300	0.300 J		ug/L	TR
JW-CPT20-80	1608029-05	WG	N	1-NONANAL		6.30	6.30 NJ		ug/L	TI
JW-CPT20-80	1608029-05	WG	N	Acetone	4.50	4.50	4.50 UJ		ug/L	A1/K1
JW-CPT20-80	1608029-05	WG	N	DECYL ALDEHYDE		0.500	0.500 NJ		ug/L	TI
JW-CPT20-80	1608029-05	WG	N	Octanal		0.700	0.700 NJ		ug/L	TI
JW-EL01-0816	1608029-09	WQ	EB	Acetone	4.00	3.80	3.80 J		ug/L	TR
JW-RL01-0816	1608029-04	WQ	TB	2-ethyl-1-HexaNOL		1.00	1.00 NJ		ug/L	TI
JW-RL01-0816	1608029-04	WQ	TB	Acetone	4.00	2.20	2.20 J		ug/L	TR

Qualified Results

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-RL01-0816	1608029-04	WQ	TB	Tetrahydrofuran		0.900	0.900 NJ		ug/L	TI
JW-WL01-0816	1608029-03	WQ	AB	Chloromethane	0.500	0.500 U	0.500 UJ		ug/L	S
JW-WL01-0816	1608029-03	WQ	AB	Dichlorodifluoromethane	0.500	0.500 U	0.500 UJ		ug/L	S

Test Method: SW8270D Extraction Method: SW3520C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-CPT20-100	1608029-06	WG	N	1,4-Dioxane (p-Dioxane)	1.90	1.90 U	1.90 UJ		ug/L	C11
JW-CPT20-120	1608029-07	WG	N	1,4-Dioxane (p-Dioxane)	1.00	1.00 U	1.00 UJ		ug/L	C11/S
JW-CPT20-121	1608029-08	WG	FD	1,4-Dioxane (p-Dioxane)	2.00	2.00 U	2.00 UJ		ug/L	C11
JW-CPT20-132	1608029-01	WG	N	1,4-Dioxane (p-Dioxane)	1.00	1.00 U	1.00 UJ		ug/L	C11/S
JW-CPT20-64	1608029-02	WG	N	1,4-Dioxane (p-Dioxane)	1.10	0.500	0.500 J	+	ug/L	C11/TR
JW-CPT20-80	1608029-05	WG	N	1,4-Dioxane (p-Dioxane)	1.90	1.90 U	1.90 UJ		ug/L	C11
JW-EL01-0816	1608029-09	WQ	EB	1,4-Dioxane (p-Dioxane)	0.900	0.900 U	0.900 UJ		ug/L	C11
JW-WL01-0816	1608029-03	WQ	AB	1,4-Dioxane (p-Dioxane)	1.00	1.00 U	1.00 UJ		ug/L	C11

Detected Results

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JW-CPT20-100	1608029-06	WG	N	1	1,2-Dichloroethane	0.500	1.90	1.90	ug/L	
JW-CPT20-100	1608029-06	WG	N	1	1-NONANAL		1.00	1.00 NJ	ug/L	TI
JW-CPT20-100	1608029-06	WG	N	1	2-methyl propane		1.20	1.20 NJ	ug/L	TI
JW-CPT20-100	1608029-06	WG	N	1	cis-1,2-Dichloroethylene	0.500	13.0	13.0	ug/L	
JW-CPT20-100	1608029-06	WG	N	1	CyclopentaNE		0.800	0.800 NJ	ug/L	TI
JW-CPT20-100	1608029-06	WG	N	1	Trichloroethene (TCE)	0.500	1.50	1.50	ug/L	
JW-CPT20-120	1608029-07	WG	N	1	1-NONANAL		1.50	1.50 NJ	ug/L	TI
JW-CPT20-120	1608029-07	WG	N	1	cis-1,2-Dichloroethylene	0.500	5.30	5.30	ug/L	
JW-CPT20-120	1608029-07	WG	N	1	DECYL ALDEHYDE		0.700	0.700 NJ	ug/L	TI
JW-CPT20-120	1608029-07	WG	N	1	Trichloroethene (TCE)	0.500	1.40	1.40	ug/L	
JW-CPT20-121	1608029-08	WG	FD	1	1-NONANAL		1.60	1.60 NJ	ug/L	TI
JW-CPT20-121	1608029-08	WG	FD	1	2-ethyl-1-HexaNOL		0.800	0.800 NJ	ug/L	TI
JW-CPT20-121	1608029-08	WG	FD	1	Chloromethane	0.500	0.400	0.400 J	ug/L	TR
JW-CPT20-121	1608029-08	WG	FD	1	cis-1,2-Dichloroethylene	0.500	5.30	5.30	ug/L	
JW-CPT20-121	1608029-08	WG	FD	1	DECYL ALDEHYDE		0.800	0.800 NJ	ug/L	TI
JW-CPT20-121	1608029-08	WG	FD	1	Trichloroethene (TCE)	0.500	1.40	1.40	ug/L	
JW-CPT20-132	1608029-01	WG	N	1	1-NONANAL		0.600	0.600 NJ	ug/L	TI
JW-CPT20-64	1608029-02	WG	N	1	1-NONANAL		4.30	4.30 NJ	ug/L	TI
JW-CPT20-64	1608029-02	WG	N	1	cis-1,2-Dichloroethylene	0.500	7.70	7.70	ug/L	
JW-CPT20-64	1608029-02	WG	N	1	DECYL ALDEHYDE		0.700	0.700 NJ	ug/L	TI
JW-CPT20-64	1608029-02	WG	N	1	trans-1,2-Dichloroethene	0.500	0.400	0.400 J	ug/L	TR
JW-CPT20-64	1608029-02	WG	N	1	Trichloroethene (TCE)	0.500	1.60	1.60	ug/L	
JW-CPT20-80	1608029-05	WG	N	1	1,1-Dichloroethane	0.500	0.400	0.400 J	ug/L	TR
JW-CPT20-80	1608029-05	WG	N	1	1,1-Dichloroethene	0.500	0.300	0.300 J	ug/L	TR
JW-CPT20-80	1608029-05	WG	N	1	1-NONANAL		6.30	6.30 NJ	ug/L	TI
JW-CPT20-80	1608029-05	WG	N	1	DECYL ALDEHYDE		0.500	0.500 NJ	ug/L	TI
JW-CPT20-80	1608029-05	WG	N	1	Octanal		0.700	0.700 NJ	ug/L	TI

Detected Results

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JW-CPT20-80	1608029-05	WG	N	1	Toluene	0.500	0.700	0.700	ug/L	
JW-CPT20-80	1608029-05	WG	N	1	trans-1,2-Dichloroethene	0.500	1.40	1.40	ug/L	
JW-CPT20-80	1608029-05	WG	N	1	Trichloroethene (TCE)	0.500	2.50	2.50	ug/L	
JW-CPT20-80	1608029-05RE1	WG	N	1	cis-1,2-Dichloroethylene	2.50	61.0	61.0	ug/L	
JW-EL01-0816	1608029-09	WQ	EB	1	Acetone	4.00	3.80	3.80 J	ug/L	TR
JW-RL01-0816	1608029-04	WQ	TB	1	2-ethyl-1-HexaNOL		1.00	1.00 NJ	ug/L	TI
JW-RL01-0816	1608029-04	WQ	TB	1	Acetone	4.00	2.20	2.20 J	ug/L	TR
JW-RL01-0816	1608029-04	WQ	TB	1	Tetrahydrofuran		0.900	0.900 NJ	ug/L	TI
JW-WL01-0816	1608029-03	WQ	AB	1	Acetone	4.00	4.70	4.70	ug/L	

Test Method: SW8270D Extraction Method: SW3520C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JW-CPT20-64	1608029-02	WG	N	1	1,4-Dioxane (p-Dioxane)	1.10	0.500	0.500 J	ug/L	C11/TR

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 1611061

Facility: Jervis-Webb Superfund Site
November 2016 New Wells Sampling

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA
Field Contractor: Gilbane Company, Walnut Creek, CA
Data Review Contractor: Gilbane

SDG: 1611061, Certified - 1/4/2017 by wtse
QC Level: Tier 1A (S2AVEM)
Project Manager: Don Gruber

Data Reviewer: Tom Beer
Data Reviewer Title: Project Chemist
Date of Review Report: February 02, 2017
Second Reviewer:
Completion Date of Second Reviewer:

Samples Included in SDG 1611061

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
A2320/NONE	5	1
A2540C/NONE	5	1
E300/NONE	5	1
E314.0/NONE	5	1
E415.3/NONE	5	1

AUTOMATED DATA REVIEW SUMMARY for 1611061

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) 1611061. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Field Blank
- Field Duplicate
- Initial Calibration Verification
- Material Blank
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 1611061

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 13 results (24.07%) out of the 54 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report, COC as received and receipt checklist.

No sample receipt issues noted. All chloride results qualified as estimated J/UJ for continuing calibration anomalies (C11).

Data qualifiers were also added for an equipment blank detect of TOC (K1), and all perchlorate reporting limits are elevated (X) due to an equipment malfunction.

No data were rejected.

J. Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2017.02.02 16:36:38 -08'00'

02-Feb-2017

Released by Tom Beer, Project Chemist

Automated Data Review Detail Report for 1611061
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: A2320 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
FIELDQC	WQ	JW-EL01-1116	1611061-01	NA	1/1	11/28/2016 13:30		12/5/2016 09:17	/	EB
JWMW-04	WG	JWMW-04-1116	1611061-02RE1	NA	1/1	11/28/2016 08:04		12/5/2016 09:17	/	N
JWMW-09A	WG	JWMW-09A-1116	1611061-03RE1	NA	1/1	11/28/2016 12:45		12/5/2016 09:17	/	N
JWMW-09B	WG	JWMW-09B-1116	1611061-04RE1	NA	1/1	11/28/2016 11:08		12/5/2016 09:17	/	N
LABQC	WQ	LABQC	B16L024-BS1	NA	1/1	12/5/2016 09:17		12/5/2016 09:17	/	BS
LABQC	WQ	LABQC	B16L024-BLK1	NA	1/1	12/5/2016 09:17		12/5/2016 09:17	/	LB
JWMW-09C	WG	JWMW-09C-1116	1611061-05	NA	1/1	11/28/2016 10:13		12/8/2016 06:22	/	N
JWMW-10	WG	JWMW-10-1116	1611061-06	NA	1/1	11/28/2016 09:14		12/8/2016 06:22	/	N
LABQC	WQ	LABQC	B16L051-BS1	NA	1/1	12/8/2016 06:22		12/8/2016 06:22	/	BS
LABQC	WQ	LABQC	B16L051-BLK1	NA	1/1	12/8/2016 06:22		12/8/2016 06:22	/	LB

Test Method: A2540C Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
FIELDQC	WQ	JW-EL01-1116	1611061-01	NA	1/1	11/28/2016 13:30		11/30/2016 11:11	/	EB
JWMW-04	WG	JWMW-04-1116	1611061-02	NA	1/1	11/28/2016 08:04		11/30/2016 11:11	/	N
JWMW-09A	WG	JWMW-09A-1116	1611061-03	NA	1/1	11/28/2016 12:45		11/30/2016 11:11	/	N
JWMW-09B	WG	JWMW-09B-1116	B16K133-DUP1	NA	1/1	11/28/2016 11:08		11/30/2016 11:11	/	LR
JWMW-09B	WG	JWMW-09B-1116	1611061-04	NA	1/1	11/28/2016 11:08		11/30/2016 11:11	/	N
JWMW-09C	WG	JWMW-09C-1116	1611061-05	NA	1/1	11/28/2016 10:13		11/30/2016 11:11	/	N
JWMW-10	WG	JWMW-10-1116	1611061-06	NA	1/1	11/28/2016 09:14		11/30/2016 11:11	/	N
LABQC	WQ	LABQC	B16K133-BLK1	NA	1/1	11/30/2016 11:11		11/30/2016 11:11	/	LB

Automated Data Review Detail Report for 1611061
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: E300 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16H083-SCV1	NA	1/1	8/17/2016 10:11	8/17/2016 10:11	8/17/2016 11:59	NA/	CV
LABQC	WQ	LABQC	B16K125-BS1	NA	1/1	11/30/2016 08:07	11/30/2016 08:07	11/30/2016 08:07	NA/	BS
LABQC	WQ	LABQC	S16K133-CCV1	NA	1/1	11/30/2016 07:44	11/30/2016 07:44	11/30/2016 08:07	NA/	CV
LABQC	WQ	LABQC	B16K125-BLK1	NA	1/1	11/30/2016 08:07	11/30/2016 08:07	11/30/2016 08:22	NA/	LB
LABQC	WQ	LABQC	B16K125-BLK2	NA	1/1	11/30/2016 08:07	11/30/2016 08:07	11/30/2016 08:53	NA/	LB
FIELDQC	WQ	JW-EL01-1116	1611061-01	NA	1/1	11/28/2016 13:30	11/30/2016 08:07	11/30/2016 09:09	NA/	EB
JWMW-04	WG	JWMW-04-1116	1611061-02RE1	NA	1/100	11/28/2016 08:04	11/30/2016 08:07	11/30/2016 10:41	NA/	N
LABQC	WQ	LABQC	S16K133-CCV2	NA	1/1	11/30/2016 07:44	11/30/2016 07:44	11/30/2016 10:56	NA/	CV
JWMW-10	WG	JWMW-10-1116	1611061-06	NA	1/10	11/28/2016 09:14	11/30/2016 08:07	11/30/2016 11:28	NA/	N
JWMW-09A	WG	JWMW-09A-1116	1611061-03RE1	NA	1/100	11/28/2016 12:45	11/30/2016 08:07	11/30/2016 11:43	NA/	N
JWMW-09B	WG	JWMW-09B-1116	1611061-04RE1	NA	1/20	11/28/2016 11:08	11/30/2016 08:07	11/30/2016 11:58	NA/	N
JWMW-09C	WG	JWMW-09C-1116	1611061-05RE1	NA	1/10	11/28/2016 10:13	11/30/2016 08:07	11/30/2016 12:14	NA/	N
JWMW-10	WG	JWMW-10-1116	B16K125-DUP1	NA	1/10	11/28/2016 09:14	11/30/2016 08:07	11/30/2016 12:29	NA/	LR
JWMW-04	WG	JWMW-04-1116	1611061-02RE2	NA	1/5	11/28/2016 08:04	11/30/2016 08:07	11/30/2016 12:45	NA/	N
JWMW-09A	WG	JWMW-09A-1116	1611061-03RE2	NA	1/10	11/28/2016 12:45	11/30/2016 08:07	11/30/2016 13:00	NA/	N
LABQC	WQ	LABQC	S16K133-CCV3	NA	1/1	11/30/2016 07:44	11/30/2016 07:44	11/30/2016 14:05	NA/	CV
LABQC	WQ	LABQC	S16K133-CCV4	NA	1/1	11/30/2016 07:44	11/30/2016 07:44	11/30/2016 17:10	NA/	CV
LABQC	WQ	LABQC	S16K133-CCV5	NA	1/1	11/30/2016 07:44	11/30/2016 07:44	11/30/2016 19:59	NA/	CV
LABQC	WQ	LABQC	S16K133-CCV6	NA	1/1	11/30/2016 07:44	11/30/2016 07:44	11/30/2016 21:01	NA/	CV

Test Method: E314.0 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16G003-SCV1	NA	1/1	7/1/2016 09:56	7/1/2016 09:56	7/1/2016 12:39	NA/	CV
LABQC	WQ	LABQC	B16L099-BS1	NA	1/1	12/20/2016 08:05	12/20/2016 08:05	12/20/2016 11:52	NA/	BS

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Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: E314.0 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16L096-CCV1	NA	1/1	12/20/2016 08:08	12/20/2016 08:08	12/20/2016 11:52	NA/	CV
LABQC	WQ	LABQC	B16L099-BLK1	NA	1/1	12/20/2016 08:05	12/20/2016 08:05	12/20/2016 12:29	NA/	LB
LABQC	WQ	LABQC	B16L099-BLK2	NA	1/1	12/20/2016 08:05	12/20/2016 08:05	12/20/2016 12:48	NA/	LB
FIELDQC	WQ	JW-EL01-1116	1611061-01	NA	1/1	11/28/2016 13:30	12/20/2016 08:05	12/20/2016 13:24	NA/	EB
JWMW-04	WG	JWMW-04-1116	1611061-02	NA	1/2	11/28/2016 08:04	12/20/2016 08:05	12/20/2016 13:43	NA/	N
JWMW-09A	WG	JWMW-09A-1116	1611061-03	NA	1/2	11/28/2016 12:45	12/20/2016 08:05	12/20/2016 14:01	NA/	N
JWMW-09B	WG	JWMW-09B-1116	1611061-04	NA	1/2	11/28/2016 11:08	12/20/2016 08:05	12/20/2016 14:20	NA/	N
JWMW-09C	WG	JWMW-09C-1116	1611061-05	NA	1/1	11/28/2016 10:13	12/20/2016 08:05	12/20/2016 14:38	NA/	N
LABQC	WQ	LABQC	S16L096-CCV2	NA	1/1	12/20/2016 08:08	12/20/2016 08:08	12/20/2016 14:56	NA/	CV
JWMW-10	WG	JWMW-10-1116	1611061-06	NA	1/1	11/28/2016 09:14	12/20/2016 08:05	12/20/2016 15:15	NA/	N
LABQC	WQ	LABQC	S16L096-CCV3	NA	1/1	12/20/2016 08:08	12/20/2016 08:08	12/20/2016 16:28	NA/	CV

Test Method: E415.3 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16I040-CCV1	NA	1/1	9/12/2016 09:25	9/12/2016 09:25	9/12/2016 19:12	NA/	CV
LABQC	WQ	LABQC	S16I040-SCV1	NA	1/1	9/12/2016 09:25	9/12/2016 09:25	9/12/2016 20:14	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV1	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/9/2016 16:54	NA/	CV
LABQC	WQ	LABQC	B16L061-BLK1	NA	1/1	12/9/2016 09:59	12/9/2016 09:59	12/9/2016 17:12	NA/	LB
LABQC	WQ	LABQC	B16L061-BS1	NA	1/1	12/9/2016 09:59	12/9/2016 09:59	12/9/2016 18:19	NA/	BS
FIELDQC	WQ	JW-EL01-1116	1611061-01	NA	1/1	11/28/2016 13:30	12/9/2016 09:59	12/9/2016 18:40	NA/	EB
JWMW-04	WG	JWMW-04-1116	1611061-02	NA	1/1	11/28/2016 08:04	12/9/2016 09:59	12/9/2016 19:07	NA/	N
JWMW-09A	WG	JWMW-09A-1116	1611061-03	NA	1/1	11/28/2016 12:45	12/9/2016 09:59	12/9/2016 19:29	NA/	N
JWMW-09B	WG	JWMW-09B-1116	1611061-04	NA	1/1	11/28/2016 11:08	12/9/2016 09:59	12/9/2016 20:11	NA/	N
JWMW-09C	WG	JWMW-09C-1116	1611061-05	NA	1/1	11/28/2016 10:13	12/9/2016 09:59	12/9/2016 20:33	NA/	N

Batch Report

Test Method: E415.3 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
JWMW-10	WG	JWMW-10-1116	1611061-06	NA	1/1	11/28/2016 09:14	12/9/2016 09:59	12/9/2016 20:55	NA/	N
LABQC	WQ	LABQC	S16L055-CCV2	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/9/2016 21:59	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV3	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 02:54	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV4	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 08:01	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV5	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 13:03	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV6	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 17:30	NA/	CV

Automated Data Review Detail Report for 1611061
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Field Batch Report

Test Method: A2320 Extraction Method: NONE Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
28111602			FIELDQC	WQ	JW-EL01-1116	1611061-01	11/28/2016 13:30	EB
28111602			JWMW-04	WG	JWMW-04-1116	1611061-02RE1	11/28/2016 08:04	N
28111602			JWMW-09A	WG	JWMW-09A-1116	1611061-03RE1	11/28/2016 12:45	N
28111602			JWMW-09B	WG	JWMW-09B-1116	1611061-04RE1	11/28/2016 11:08	N
28111602			JWMW-09C	WG	JWMW-09C-1116	1611061-05	11/28/2016 10:13	N
28111602			JWMW-10	WG	JWMW-10-1116	1611061-06	11/28/2016 09:14	N

Test Method: A2540C Extraction Method: NONE Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
28111602			FIELDQC	WQ	JW-EL01-1116	1611061-01	11/28/2016 13:30	EB
28111602			JWMW-04	WG	JWMW-04-1116	1611061-02	11/28/2016 08:04	N
28111602			JWMW-09A	WG	JWMW-09A-1116	1611061-03	11/28/2016 12:45	N
28111602			JWMW-09B	WG	JWMW-09B-1116	1611061-04	11/28/2016 11:08	N
28111602			JWMW-09B	WG	JWMW-09B-1116	B16K133-DUP1	11/28/2016 11:08	LR
28111602			JWMW-09C	WG	JWMW-09C-1116	1611061-05	11/28/2016 10:13	N
28111602			JWMW-10	WG	JWMW-10-1116	1611061-06	11/28/2016 09:14	N

Test Method: E300 Extraction Method: METHOD Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
28111602			FIELDQC	WQ	JW-EL01-1116	1611061-01	11/28/2016 13:30	EB
28111602			JWMW-04	WG	JWMW-04-1116	1611061-02RE1	11/28/2016 08:04	N
28111602			JWMW-04	WG	JWMW-04-1116	1611061-02RE2	11/28/2016 08:04	N
28111602			JWMW-09A	WG	JWMW-09A-1116	1611061-03RE1	11/28/2016 12:45	N
28111602			JWMW-09A	WG	JWMW-09A-1116	1611061-03RE2	11/28/2016 12:45	N

Automated Data Review Detail Report for 1611061
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Field Batch Report

Test Method: E300 Extraction Method: METHOD Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
28111602			JWMW-09B	WG	JWMW-09B-1116	1611061-04RE1	11/28/2016 11:08	N
28111602			JWMW-09C	WG	JWMW-09C-1116	1611061-05RE1	11/28/2016 10:13	N
28111602			JWMW-10	WG	JWMW-10-1116	1611061-06	11/28/2016 09:14	N
28111602			JWMW-10	WG	JWMW-10-1116	B16K125-DUP1	11/28/2016 09:14	LR

Test Method: E314.0 Extraction Method: METHOD Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
28111602			FIELDQC	WQ	JW-EL01-1116	1611061-01	11/28/2016 13:30	EB
28111602			JWMW-04	WG	JWMW-04-1116	1611061-02	11/28/2016 08:04	N
28111602			JWMW-09A	WG	JWMW-09A-1116	1611061-03	11/28/2016 12:45	N
28111602			JWMW-09B	WG	JWMW-09B-1116	1611061-04	11/28/2016 11:08	N
28111602			JWMW-09C	WG	JWMW-09C-1116	1611061-05	11/28/2016 10:13	N
28111602			JWMW-10	WG	JWMW-10-1116	1611061-06	11/28/2016 09:14	N

Test Method: E415.3 Extraction Method: TOTAL Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
28111602			FIELDQC	WQ	JW-EL01-1116	1611061-01	11/28/2016 13:30	EB
28111602			JWMW-04	WG	JWMW-04-1116	1611061-02	11/28/2016 08:04	N
28111602			JWMW-09A	WG	JWMW-09A-1116	1611061-03	11/28/2016 12:45	N
28111602			JWMW-09B	WG	JWMW-09B-1116	1611061-04	11/28/2016 11:08	N
28111602			JWMW-09C	WG	JWMW-09C-1116	1611061-05	11/28/2016 10:13	N
28111602			JWMW-10	WG	JWMW-10-1116	1611061-06	11/28/2016 09:14	N

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

Automated Data Review Detail Report for 1611061
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

QC Outlier Report

Test Method: E415.3 Extraction Method: TOTAL Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Equipment Blank	JW-EL01-1116 (EB) / 1611061-01	1 / 1.00	Total Organic Carbon	0.3400 (mg/l)	*U/None	< 0.25	< 0.5	K1		1	0.340

Rule is the multiplier used when blank contamination occurs to determine action level.

*Method and Field Blanks will apply J flags when the sample result is greater than the reporting limit for NFG validation.

Automated Data Review Detail Report for 1611061
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Qualified Results

Test Method: E314.0 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-EL01-1116	1611061-01	WQ	EB	Perchlorate	2.00	2.00 U	2.00 U		ug/L	X
JWMW-04-1116	1611061-02	WG	N	Perchlorate	4.00	4.00 U	4.00 U		ug/L	X
JWMW-09A-1116	1611061-03	WG	N	Perchlorate	4.00	4.00 U	4.00 U		ug/L	X
JWMW-09B-1116	1611061-04	WG	N	Perchlorate	4.00	4.00 U	4.00 U		ug/L	X
JWMW-09C-1116	1611061-05	WG	N	Perchlorate	2.00	2.00 U	2.00 U		ug/L	X
JWMW-10-1116	1611061-06	WG	N	Perchlorate	2.00	2.00 U	2.00 U		ug/L	X

Test Method: E415.3 Extraction Method: TOTAL Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-EL01-1116	1611061-01	WQ	EB	Total Organic Carbon	0.500	0.340	0.340 J		mg/L	TR
JWMW-10-1116	1611061-06	WG	N	Total Organic Carbon	0.500	3.30	3.30 J	+	mg/L	K1

Detected Results

Test Method: A2320 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-04-1116	1611061-02RE1	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	40.0	700	700	mg/L	
JWMW-04-1116	1611061-02RE1	WG	N	1	Alkalinity, Total (as CaCO3)	40.0	700	700	mg/L	
JWMW-09A-1116	1611061-03RE1	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	40.0	640	640	mg/L	
JWMW-09A-1116	1611061-03RE1	WG	N	1	Alkalinity, Total (as CaCO3)	40.0	640	640	mg/L	
JWMW-09B-1116	1611061-04RE1	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	20.0	180	180	mg/L	
JWMW-09B-1116	1611061-04RE1	WG	N	1	Alkalinity, Total (as CaCO3)	20.0	180	180	mg/L	
JWMW-09C-1116	1611061-05	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	460	460	mg/L	
JWMW-09C-1116	1611061-05	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	460	460	mg/L	
JWMW-10-1116	1611061-06	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	310	310	mg/L	
JWMW-10-1116	1611061-06	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	310	310	mg/L	

Test Method: A2540C Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-04-1116	1611061-02	WG	N	1	Total Dissolved Solids	20.0	4600	4600	mg/L	
JWMW-09A-1116	1611061-03	WG	N	1	Total Dissolved Solids	20.0	4800	4800	mg/L	
JWMW-09B-1116	1611061-04	WG	N	1	Total Dissolved Solids	20.0	1300	1300	mg/L	
JWMW-09C-1116	1611061-05	WG	N	1	Total Dissolved Solids	20.0	1000	1000	mg/L	
JWMW-10-1116	1611061-06	WG	N	1	Total Dissolved Solids	20.0	1000	1000	mg/L	

Test Method: E300 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-04-1116	1611061-02RE1	WG	N	100	Sulfate (as SO4)	50.0	2800	2800	mg/L	
JWMW-04-1116	1611061-02RE2	WG	N	5	Chloride	5.00	70.0	70.0	mg/L	
JWMW-09A-1116	1611061-03RE1	WG	N	100	Sulfate (as SO4)	50.0	3000	3000	mg/L	

Automated Data Review Detail Report for 1611061
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Detected Results

Test Method: E300 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-09A-1116	1611061-03RE2	WG	N	10	Chloride	10.0	94.0	94.0	mg/L	
JWMW-09B-1116	1611061-04RE1	WG	N	20	Chloride	20.0	220	220	mg/L	
JWMW-09B-1116	1611061-04RE1	WG	N	20	Sulfate (as SO4)	10.0	480	480	mg/L	
JWMW-09C-1116	1611061-05RE1	WG	N	10	Chloride	10.0	86.0	86.0	mg/L	
JWMW-09C-1116	1611061-05RE1	WG	N	10	Sulfate (as SO4)	5.00	310	310	mg/L	
JWMW-10-1116	1611061-06	WG	N	10	Chloride	10.0	100	100	mg/L	
JWMW-10-1116	1611061-06	WG	N	10	Sulfate (as SO4)	5.00	400	400	mg/L	

Test Method: E415.3 Extraction Method: TOTAL Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JW-EL01-1116	1611061-01	WQ	EB	1	Total Organic Carbon	0.500	0.340	0.340 J	mg/L	TR
JWMW-04-1116	1611061-02	WG	N	1	Total Organic Carbon	0.500	5.10	5.10	mg/L	
JWMW-09A-1116	1611061-03	WG	N	1	Total Organic Carbon	0.500	5.60	5.60	mg/L	
JWMW-09B-1116	1611061-04	WG	N	1	Total Organic Carbon	0.500	18.0	18.0	mg/L	
JWMW-09C-1116	1611061-05	WG	N	1	Total Organic Carbon	0.500	3.60	3.60	mg/L	
JWMW-10-1116	1611061-06	WG	N	1	Total Organic Carbon	0.500	3.30	3.30 J	mg/L	K1

Automated Data Review Detail Report for 1611061
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Rejected Results

--No Records Found--

Facility:	Jervis-Webb Superfund Site
Event:	November 2016 New Wells Sampling
Guidance Document:	Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015
Contract Laboratory:	U.S. EPA, Region 9 Lab, Richmond, CA
Field Contractor:	Gilbane Company, Walnut Creek, CA
Data Review Contractor:	
SDG:	1611066, Certified - 2/27/2018 by wtse
QC Level:	Tier 1A (S2AVEM)
Project Manager:	Don Gruber
Data Reviewer:	Tom Beer
Data Reviewer Title:	Project Chemist
Date of Review Report:	February 02, 2017

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
A2320/NONE	4	1
A2540C/NONE	4	1
E300/NONE	4	1
E415.3/NONE	4	1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) 1611066. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Continuing Calibration Verification
- Field Duplicate
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- Negative Blank
- Surrogate
- Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 5 results (12.50%) out of the 40 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report, COC as received and receipt checklist.

Analytical Method	Comment

No sample receipt issues noted. All sulfate results qualified as estimated J for continuing calibration anomalies (C11).

No further data qualifiers warranted. TDS hold time exceedance resolved-no qualifiers warranted. No data were rejected.

J. Beer Digitally signed by Tom Beer DN: C=US, E=tbeer@gilbaneco.com, OU="", O="", CN=Tom Beer Date: 2018.03.21 15:24:17-07'00'

Reviewed by ,

February 2, 2017

Qualified Results

Test Method: E300	Extraction Method: METHOD		Leach Method: NONE		Matrix: WG			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-11A-1116	N	Sulfate (as SO4)	50.0	1200	1200 J	-	mg/L	C11
JWMW-11B-1116	N	Sulfate (as SO4)	50.0	2600	2600 J	-	mg/L	C11
JWMW-11C-1116	N	Sulfate (as SO4)	50.0	1900	1900 J	-	mg/L	C11
JWMW-12-1116	N	Sulfate (as SO4)	50.0	1900	1900 J	-	mg/L	C11
JWMW-911B-1116	FD	Sulfate (as SO4)	50.0	2600	2600 J	-	mg/L	C11

Reason Code Definitions

Code	Definition
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
H1	Test Hold Time

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for 1611066
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: A2320 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
JWMW-11A	WG	JWMW-11A-1116	1611066-01	NA	1/1	11/29/2016 12:48		12/8/2016 06:22	/	N
JWMW-11B	WG	JWMW-11B-1116	1611066-02	NA	1/1	11/29/2016 11:03		12/8/2016 06:22	/	N
JWMW-11B	WG	JWMW-911B-1116	1611066-05	NA	1/1	11/29/2016 11:13		12/8/2016 06:22	/	FD
JWMW-11C	WG	JWMW-11C-1116	B16L051-DUP1	NA	1/1	11/29/2016 09:27		12/8/2016 06:22	/	LR
JWMW-11C	WG	JWMW-11C-1116	1611066-03	NA	1/1	11/29/2016 09:27		12/8/2016 06:22	/	N
JWMW-12	WG	JWMW-12-1116	1611066-04	NA	1/1	11/29/2016 08:11		12/8/2016 06:22	/	N
LABQC	WQ	LABQC	B16L051-BS1	NA	1/1	12/8/2016 06:22		12/8/2016 06:22	/	BS
LABQC	WQ	LABQC	B16L051-BLK1	NA	1/1	12/8/2016 06:22		12/8/2016 06:22	/	LB

Test Method: A2540C Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
JWMW-11A	WG	JWMW-11A-1116	1611066-01	NA	1/1	11/29/2016 12:48		12/6/2016 15:17	/	N
JWMW-11B	WG	JWMW-11B-1116	1611066-02	NA	1/1	11/29/2016 11:03		12/6/2016 15:17	/	N
JWMW-11B	WG	JWMW-911B-1116	1611066-05	NA	1/1	11/29/2016 11:13		12/6/2016 15:17	/	FD
JWMW-11C	WG	JWMW-11C-1116	B16L039-DUP1	NA	1/1	11/29/2016 09:27		12/6/2016 15:17	/	LR
JWMW-11C	WG	JWMW-11C-1116	1611066-03	NA	1/1	11/29/2016 09:27		12/6/2016 15:17	/	N
JWMW-12	WG	JWMW-12-1116	1611066-04	NA	1/1	11/29/2016 08:11		12/6/2016 15:17	/	N
LABQC	WQ	LABQC	B16L039-BLK1	NA	1/1	12/6/2016 15:17		12/6/2016 15:17	/	LB

Batch Report

Test Method: E300 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16H083-SCV1	NA	1/1	8/17/2016 10:11	8/17/2016 10:11	8/17/2016 11:59	NA/	CV
LABQC	WQ	LABQC	B16L005-BS1	NA	1/1	12/1/2016 07:44	12/1/2016 07:44	12/1/2016 07:48	NA/	BS
LABQC	WQ	LABQC	S16L001-CCV1	NA	1/1	12/1/2016 07:45	12/1/2016 07:45	12/1/2016 07:48	NA/	CV
LABQC	WQ	LABQC	B16L005-BLK1	NA	1/1	12/1/2016 07:44	12/1/2016 07:44	12/1/2016 08:04	NA/	LB
LABQC	WQ	LABQC	B16L005-BLK2	NA	1/1	12/1/2016 07:44	12/1/2016 07:44	12/1/2016 08:35	NA/	LB
JWMW-11A	WG	JWMW-11A-1116	1611066-01	NA	1/100	11/29/2016 12:48	12/1/2016 07:44	12/1/2016 08:50	NA/	N
JWMW-11B	WG	JWMW-11B-1116	1611066-02	NA	1/100	11/29/2016 11:03	12/1/2016 07:44	12/1/2016 09:05	NA/	N
JWMW-11C	WG	JWMW-11C-1116	1611066-03	NA	1/100	11/29/2016 09:27	12/1/2016 07:44	12/1/2016 09:21	NA/	N
JWMW-12	WG	JWMW-12-1116	1611066-04	NA	1/100	11/29/2016 08:11	12/1/2016 07:44	12/1/2016 09:36	NA/	N
JWMW-11B	WG	JWMW-911B-1116	1611066-05	NA	1/100	11/29/2016 11:13	12/1/2016 07:44	12/1/2016 09:52	NA/	FD
JWMW-11C	WG	JWMW-11C-1116	B16L005-DUP1	NA	1/100	11/29/2016 09:27	12/1/2016 07:44	12/1/2016 10:07	NA/	LR
LABQC	WQ	LABQC	S16L001-CCV2	NA	1/1	12/1/2016 07:45	12/1/2016 07:45	12/1/2016 10:22	NA/	CV
JWMW-11A	WG	JWMW-11A-1116	1611066-01RE1	NA	1/10	11/29/2016 12:48	12/1/2016 07:44	12/1/2016 10:53	NA/	N
JWMW-11B	WG	JWMW-11B-1116	1611066-02RE1	NA	1/10	11/29/2016 11:03	12/1/2016 07:44	12/1/2016 11:09	NA/	N
JWMW-11C	WG	JWMW-11C-1116	1611066-03RE1	NA	1/10	11/29/2016 09:27	12/1/2016 07:44	12/1/2016 11:24	NA/	N
JWMW-11C	WG	JWMW-11C-1116	B16L005-DUP2	NA	1/10	11/29/2016 09:27	12/1/2016 07:44	12/1/2016 11:39	NA/	LR
JWMW-12	WG	JWMW-12-1116	1611066-04RE1	NA	1/20	11/29/2016 08:11	12/1/2016 07:44	12/1/2016 11:55	NA/	N
JWMW-11B	WG	JWMW-911B-1116	1611066-05RE1	NA	1/10	11/29/2016 11:13	12/1/2016 07:44	12/1/2016 12:10	NA/	FD
LABQC	WQ	LABQC	S16L001-CCV3	NA	1/1	12/1/2016 07:45	12/1/2016 07:45	12/1/2016 12:26	NA/	CV
LABQC	WQ	LABQC	S16L001-CCV4	NA	1/1	12/1/2016 07:45	12/1/2016 07:45	12/1/2016 14:29	NA/	CV
LABQC	WQ	LABQC	S16L001-CCV5	NA	1/1	12/1/2016 07:45	12/1/2016 07:45	12/1/2016 16:47	NA/	CV

Batch Report

Test Method: E415.3 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16I040-CCV1	NA	1/1	9/12/2016 09:25	9/12/2016 09:25	9/12/2016 19:12	NA/	CV
LABQC	WQ	LABQC	S16I040-SCV1	NA	1/1	9/12/2016 09:25	9/12/2016 09:25	9/12/2016 20:14	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV1	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/9/2016 16:54	NA/	CV
LABQC	WQ	LABQC	B16L061-BLK1	NA	1/1	12/9/2016 09:59	12/9/2016 09:59	12/9/2016 17:12	NA/	LB
LABQC	WQ	LABQC	B16L061-BS1	NA	1/1	12/9/2016 09:59	12/9/2016 09:59	12/9/2016 18:19	NA/	BS
LABQC	WQ	LABQC	S16L055-CCV2	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/9/2016 21:59	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV3	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 02:54	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV4	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 08:01	NA/	CV
JWMW-11A	WG	JWMW-11A-1116	1611066-01	NA	1/1	11/29/2016 12:48	12/9/2016 09:59	12/10/2016 08:48	NA/	N
JWMW-11B	WG	JWMW-11B-1116	1611066-02	NA	1/1	11/29/2016 11:03	12/9/2016 09:59	12/10/2016 09:27	NA/	N
JWMW-11C	WG	JWMW-11C-1116	1611066-03	NA	1/1	11/29/2016 09:27	12/9/2016 09:59	12/10/2016 09:53	NA/	N
JWMW-11C	WG	JWMW-11C-1116	B16L061-MS1	NA	1/1	11/29/2016 09:27	12/9/2016 09:59	12/10/2016 10:14	NA/	MS
JWMW-11C	WG	JWMW-11C-1116	B16L061-MSD1	NA	1/1	11/29/2016 09:27	12/9/2016 09:59	12/10/2016 10:37	NA/	SD
JWMW-12	WG	JWMW-12-1116	1611066-04	NA	1/1	11/29/2016 08:11	12/9/2016 09:59	12/10/2016 10:58	NA/	N
JWMW-11B	WG	JWMW-911B-1116	1611066-05	NA	1/1	11/29/2016 11:13	12/9/2016 09:59	12/10/2016 11:16	NA/	FD
LABQC	WQ	LABQC	S16L055-CCV5	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 13:03	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV6	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 17:30	NA/	CV

Field Batch Report

--No Records Found--

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: A2540C Extraction Method: NONE Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Test Hold Time	JWMW-11A-1116 (N) / 1611066-01	1 / 1.00	All in Run	7.100 (days)	J/UJ	< 7	< 14	H1	Test Exceeds UWL		
Test Hold Time	JWMW-11B-1116 (N) / 1611066-02	1 / 1.00	All in Run	7.180 (days)	J/UJ	< 7	< 14	H1	Test Exceeds UWL		
Test Hold Time	JWMW-11C-1116 (N) / 1611066-03	1 / 1.00	All in Run	7.240 (days)	J/UJ	< 7	< 14	H1	Test Exceeds UWL		
Test Hold Time	JWMW-11C-1116 (N) / B16L039-DUP1	1 / 1.00	All in Run	7.240 (days)	J/UJ	< 7	< 14	H1	Test Exceeds UWL		
Test Hold Time	JWMW-12-1116 (N) / 1611066-04	1 / 1.00	All in Run	7.300 (days)	J/UJ	< 7	< 14	H1	Test Exceeds UWL		
Test Hold Time	JWMW-911B-1116 (FD) / 1611066-05	1 / 1.00	All in Run	7.170 (days)	J/UJ	< 7	< 14	H1	Test Exceeds UWL		

Test Method: E300 Extraction Method: METHOD Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Continuing Calibration Verification	S16L001-CCV5 (CV) / S16L001-CCV5	1 / 1.00	Sulfate (as SO4)	42.80 (percent)	R/R	90 - 110	90 - 110	C11			

Rule is the multiplier used when blank contamination occurs to determine action level.

Qualified Results

Test Method: E300 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-11A-1116	1611066-01	WG	N	Sulfate (as SO4)	50.0	1200	1200 J	-	mg/L	C11
JWMW-11B-1116	1611066-02	WG	N	Sulfate (as SO4)	50.0	2600	2600 J	-	mg/L	C11
JWMW-11C-1116	1611066-03	WG	N	Sulfate (as SO4)	50.0	1900	1900 J	-	mg/L	C11
JWMW-12-1116	1611066-04	WG	N	Sulfate (as SO4)	50.0	1900	1900 J	-	mg/L	C11
JWMW-911B-1116	1611066-05	WG	FD	Sulfate (as SO4)	50.0	2600	2600 J	-	mg/L	C11

Detected Results

Test Method: A2320 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-11A-1116	1611066-01	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	680	680	mg/L	
JWMW-11A-1116	1611066-01	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	680	680	mg/L	
JWMW-11B-1116	1611066-02	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	720	720	mg/L	
JWMW-11B-1116	1611066-02	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	720	720	mg/L	
JWMW-11C-1116	1611066-03	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	420	420	mg/L	
JWMW-11C-1116	1611066-03	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	420	420	mg/L	
JWMW-12-1116	1611066-04	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	400	400	mg/L	
JWMW-12-1116	1611066-04	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	400	400	mg/L	
JWMW-911B-1116	1611066-05	WG	FD	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	710	710	mg/L	
JWMW-911B-1116	1611066-05	WG	FD	1	Alkalinity, Total (as CaCO3)	10.0	710	710	mg/L	

Test Method: A2540C Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-11A-1116	1611066-01	WG	N	1	Total Dissolved Solids	20.0	2600	2600	mg/L	
JWMW-11B-1116	1611066-02	WG	N	1	Total Dissolved Solids	20.0	4600	4600	mg/L	
JWMW-11C-1116	1611066-03	WG	N	1	Total Dissolved Solids	20.0	3300	3300	mg/L	
JWMW-12-1116	1611066-04	WG	N	1	Total Dissolved Solids	20.0	3700	3700	mg/L	
JWMW-911B-1116	1611066-05	WG	FD	1	Total Dissolved Solids	20.0	4600	4600	mg/L	

Test Method: E300 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-11A-1116	1611066-01	WG	N	100	Sulfate (as SO4)	50.0	1200	1200 J	mg/L	C11
JWMW-11A-1116	1611066-01RE1	WG	N	10	Chloride	10.0	140	140	mg/L	
JWMW-11B-1116	1611066-02	WG	N	100	Sulfate (as SO4)	50.0	2600	2600 J	mg/L	C11

Detected Results

Test Method: E300 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-11B-1116	1611066-02RE1	WG	N	10	Chloride	10.0	120	120	mg/L	
JWMW-11C-1116	1611066-03	WG	N	100	Sulfate (as SO4)	50.0	1900	1900 J	mg/L	C11
JWMW-11C-1116	1611066-03RE1	WG	N	10	Chloride	10.0	330	330	mg/L	
JWMW-12-1116	1611066-04	WG	N	100	Sulfate (as SO4)	50.0	1900	1900 J	mg/L	C11
JWMW-12-1116	1611066-04RE1	WG	N	20	Chloride	20.0	350	350	mg/L	
JWMW-911B-1116	1611066-05	WG	FD	100	Sulfate (as SO4)	50.0	2600	2600 J	mg/L	C11
JWMW-911B-1116	1611066-05RE1	WG	FD	10	Chloride	10.0	120	120	mg/L	

Test Method: E415.3 Extraction Method: TOTAL Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-11A-1116	1611066-01	WG	N	1	Total Organic Carbon	0.500	4.50	4.50	mg/L	
JWMW-11B-1116	1611066-02	WG	N	1	Total Organic Carbon	0.500	4.80	4.80	mg/L	
JWMW-11C-1116	1611066-03	WG	N	1	Total Organic Carbon	0.500	8.00	8.00	mg/L	
JWMW-12-1116	1611066-04	WG	N	1	Total Organic Carbon	0.500	2.60	2.60	mg/L	
JWMW-911B-1116	1611066-05	WG	FD	1	Total Organic Carbon	0.500	4.60	4.60	mg/L	

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 1611066

Facility: Jervis-Webb Superfund Site
November 2016 New Wells Sampling

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA
Field Contractor: Gilbane Company, Walnut Creek, CA
Data Review Contractor: Gilbane

SDG: 1611066, Certified - 1/4/2017 by wtse
QC Level: Tier 1A (S2AVEM)
Project Manager: Don Gruber

Data Reviewer: Tom Beer
Data Reviewer Title: Project Chemist
Date of Review Report: February 02, 2017
Second Reviewer:
Completion Date of Second Reviewer:

Samples Included in SDG 1611066

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
A2320/NONE	4	1
A2540C/NONE	4	1
E300/NONE	4	1
E415.3/NONE	4	1

AUTOMATED DATA REVIEW SUMMARY for 1611066

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) 1611066. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Continuing Calibration Verification
- Field Duplicate
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 1611066

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 10 results (25.00%) out of the 40 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report, COC as received and receipt checklist.

No sample receipt issues noted. All chloride results qualified as estimated J (not R) for continuing calibration anomalies (C11).

No further data qualifiers warranted. Minor TDS hold time exceedance-no qualifiers warranted. No data were rejected.

J. Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2017.02.02 17:01:14 -08'00'

02-Feb-2017

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	The analyte was found in an associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field duplicate precision
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 1611066

Batch Report

Test Method: A2320; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JWMW-11A	WG	JWMW-11A-1116	1611066-01	NA	1/1	29-Nov-2016 12:48 PM		08-Dec-2016 6:22 AM	N
	NA	NA	JWMW-11B	WG	JWMW-11B-1116	1611066-02	NA	1/1	29-Nov-2016 11:03 AM		08-Dec-2016 6:22 AM	N
	NA	NA	JWMW-11B	WG	JWMW-911B-1116	1611066-05	NA	1/1	29-Nov-2016 11:13 AM		08-Dec-2016 6:22 AM	FD
	NA	NA	JWMW-11C	WG	JWMW-11C-1116	B16L051-DUP1	NA	1/1	29-Nov-2016 9:27 AM		08-Dec-2016 6:22 AM	LR
	NA	NA	JWMW-11C	WG	JWMW-11C-1116	1611066-03	NA	1/1	29-Nov-2016 9:27 AM		08-Dec-2016 6:22 AM	N
	NA	NA	JWMW-12	WG	JWMW-12-1116	1611066-04	NA	1/1	29-Nov-2016 8:11 AM		08-Dec-2016 6:22 AM	N
	NA	NA	LABQC	WQ	LABQC	B16L051-BS1	NA	1/1	08-Dec-2016 6:22 AM		08-Dec-2016 6:22 AM	BS
	NA	NA	LABQC	WQ	LABQC	B16L051-BLK1	NA	1/1	08-Dec-2016 6:22 AM		08-Dec-2016 6:22 AM	LB

Test Method: A2540C; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JWMW-11A	WG	JWMW-11A-1116	1611066-01	NA	1/1	29-Nov-2016 12:48 PM		06-Dec-2016 3:17 PM	N
	NA	NA	JWMW-11B	WG	JWMW-11B-1116	1611066-02	NA	1/1	29-Nov-2016 11:03 AM		06-Dec-2016 3:17 PM	N
	NA	NA	JWMW-11B	WG	JWMW-911B-1116	1611066-05	NA	1/1	29-Nov-2016 11:13 AM		06-Dec-2016 3:17 PM	FD
	NA	NA	JWMW-11C	WG	JWMW-11C-1116	B16L039-DUP1	NA	1/1	29-Nov-2016 9:27 AM		06-Dec-2016 3:17 PM	LR
	NA	NA	JWMW-11C	WG	JWMW-11C-1116	1611066-03	NA	1/1	29-Nov-2016 9:27 AM		06-Dec-2016 3:17 PM	N
	NA	NA	JWMW-12	WG	JWMW-12-1116	1611066-04	NA	1/1	29-Nov-2016 8:11 AM		06-Dec-2016 3:17 PM	N
	NA	NA	LABQC	WQ	LABQC	B16L039-BLK1	NA	1/1	06-Dec-2016 3:17 PM		06-Dec-2016 3:17 PM	LB

Test Method: E300; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JWMW-11A	WG	JWMW-11A-1116	1611066-01	NA	1/100	29-Nov-2016 12:48 PM	01-Dec-2016 7:44 AM	01-Dec-2016 8:50 AM	N
	NA	NA	JWMW-11A	WG	JWMW-11A-1116	1611066-01RE1	NA	1/10	29-Nov-2016 12:48 PM	01-Dec-2016 7:44 AM	01-Dec-2016 10:53 AM	N

AUTOMATED DATA REVIEW SUMMARY for 1611066

Batch Report

Test Method: E300; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JWMW-11B	WG	JWMW-11B-1116	1611066-02	NA	1/100	29-Nov-2016 11:03 AM	01-Dec-2016 7:44 AM	01-Dec-2016 9:05 AM	N
	NA	NA	JWMW-11B	WG	JWMW-11B-1116	1611066-02RE1	NA	1/10	29-Nov-2016 11:03 AM	01-Dec-2016 7:44 AM	01-Dec-2016 11:09 AM	N
	NA	NA	JWMW-11B	WG	JWMW-911B-1116	1611066-05	NA	1/100	29-Nov-2016 11:13 AM	01-Dec-2016 7:44 AM	01-Dec-2016 9:52 AM	FD
	NA	NA	JWMW-11B	WG	JWMW-911B-1116	1611066-05RE1	NA	1/10	29-Nov-2016 11:13 AM	01-Dec-2016 7:44 AM	01-Dec-2016 12:10 PM	FD
	NA	NA	JWMW-11C	WG	JWMW-11C-1116	B16L005-DUP1	NA	1/100	29-Nov-2016 9:27 AM	01-Dec-2016 7:44 AM	01-Dec-2016 10:07 AM	LR
	NA	NA	JWMW-11C	WG	JWMW-11C-1116	B16L005-DUP2	NA	1/10	29-Nov-2016 9:27 AM	01-Dec-2016 7:44 AM	01-Dec-2016 11:39 AM	LR
	NA	NA	JWMW-11C	WG	JWMW-11C-1116	1611066-03	NA	1/100	29-Nov-2016 9:27 AM	01-Dec-2016 7:44 AM	01-Dec-2016 9:21 AM	N
	NA	NA	JWMW-11C	WG	JWMW-11C-1116	1611066-03RE1	NA	1/10	29-Nov-2016 9:27 AM	01-Dec-2016 7:44 AM	01-Dec-2016 11:24 AM	N
	NA	NA	JWMW-12	WG	JWMW-12-1116	1611066-04	NA	1/100	29-Nov-2016 8:11 AM	01-Dec-2016 7:44 AM	01-Dec-2016 9:36 AM	N
	NA	NA	JWMW-12	WG	JWMW-12-1116	1611066-04RE1	NA	1/20	29-Nov-2016 8:11 AM	01-Dec-2016 7:44 AM	01-Dec-2016 11:55 AM	N
	NA	NA	LABQC	WQ	LABQC	B16L005-BS1	NA	1/1	01-Dec-2016 7:44 AM	01-Dec-2016 7:44 AM	01-Dec-2016 7:48 AM	BS
	NA	NA	LABQC	WQ	LABQC	S16L001-CCV1	NA	1/1	01-Dec-2016 7:45 AM	01-Dec-2016 7:45 AM	01-Dec-2016 7:48 AM	CV
	NA	NA	LABQC	WQ	LABQC	S16L001-CCV2	NA	1/1	01-Dec-2016 7:45 AM	01-Dec-2016 7:45 AM	01-Dec-2016 10:22 AM	CV
	NA	NA	LABQC	WQ	LABQC	S16L001-CCV3	NA	1/1	01-Dec-2016 7:45 AM	01-Dec-2016 7:45 AM	01-Dec-2016 12:26 PM	CV
	NA	NA	LABQC	WQ	LABQC	S16L001-CCV4	NA	1/1	01-Dec-2016 7:45 AM	01-Dec-2016 7:45 AM	01-Dec-2016 2:29 PM	CV
	NA	NA	LABQC	WQ	LABQC	S16L001-CCV5	NA	1/1	01-Dec-2016 7:45 AM	01-Dec-2016 7:45 AM	01-Dec-2016 4:47 PM	CV
	NA	NA	LABQC	WQ	LABQC	S16H083-CAL1	NA	1/1	17-Aug-2016 10:11 AM	17-Aug-2016 10:11 AM	17-Aug-2016 10:11 AM	CV
	NA	NA	LABQC	WQ	LABQC	S16H083-CAL2	NA	1/1	17-Aug-2016 10:11 AM	17-Aug-2016 10:11 AM	17-Aug-2016 10:26 AM	CV
	NA	NA	LABQC	WQ	LABQC	S16H083-CAL3	NA	1/1	17-Aug-2016 10:11 AM	17-Aug-2016 10:11 AM	17-Aug-2016 10:42 AM	CV
	NA	NA	LABQC	WQ	LABQC	S16H083-CAL4	NA	1/1	17-Aug-2016 10:11 AM	17-Aug-2016 10:11 AM	17-Aug-2016 10:57 AM	CV
	NA	NA	LABQC	WQ	LABQC	S16H083-CAL5	NA	1/1	17-Aug-2016 10:11 AM	17-Aug-2016 10:11 AM	17-Aug-2016 11:13 AM	CV
	NA	NA	LABQC	WQ	LABQC	S16H083-CAL6	NA	1/1	17-Aug-2016 10:11 AM	17-Aug-2016 10:11 AM	17-Aug-2016 11:28 AM	CV

AUTOMATED DATA REVIEW SUMMARY for 1611066

Batch Report

Test Method: E300; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	LABQC	WQ	LABQC	S16H083-SCV1	NA	1/1	17-Aug-2016 10:11 AM	17-Aug-2016 10:11 AM	17-Aug-2016 11:59 AM	CV
	NA	NA	LABQC	WQ	LABQC	B16L005-BLK1	NA	1/1	01-Dec-2016 7:44 AM	01-Dec-2016 7:44 AM	01-Dec-2016 8:04 AM	LB
	NA	NA	LABQC	WQ	LABQC	B16L005-BLK2	NA	1/1	01-Dec-2016 7:44 AM	01-Dec-2016 7:44 AM	01-Dec-2016 8:35 AM	LB

AUTOMATED DATA REVIEW SUMMARY for 1611066

Batch Report

Test Method: E415.3; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JWMW-11A	WG	JWMW-11A-1116	1611066-01	NA	1/1	29-Nov-2016 12:48 PM	09-Dec-2016 9:59 AM	10-Dec-2016 8:48 AM	N
	NA	NA	JWMW-11B	WG	JWMW-11B-1116	1611066-02	NA	1/1	29-Nov-2016 11:03 AM	09-Dec-2016 9:59 AM	10-Dec-2016 9:27 AM	N
	NA	NA	JWMW-11B	WG	JWMW-911B-1116	1611066-05	NA	1/1	29-Nov-2016 11:13 AM	09-Dec-2016 9:59 AM	10-Dec-2016 11:16 AM	FD
	NA	NA	JWMW-11C	WG	JWMW-11C-1116	B16L061-MS1	NA	1/1	29-Nov-2016 9:27 AM	09-Dec-2016 9:59 AM	10-Dec-2016 10:14 AM	MS
	NA	NA	JWMW-11C	WG	JWMW-11C-1116	1611066-03	NA	1/1	29-Nov-2016 9:27 AM	09-Dec-2016 9:59 AM	10-Dec-2016 9:53 AM	N
	NA	NA	JWMW-11C	WG	JWMW-11C-1116	B16L061-MSD1	NA	1/1	29-Nov-2016 9:27 AM	09-Dec-2016 9:59 AM	10-Dec-2016 10:37 AM	SD
	NA	NA	JWMW-12	WG	JWMW-12-1116	1611066-04	NA	1/1	29-Nov-2016 8:11 AM	09-Dec-2016 9:59 AM	10-Dec-2016 10:58 AM	N
	NA	NA	LABQC	WQ	LABQC	B16L061-BS1	NA	1/1	09-Dec-2016 9:59 AM	09-Dec-2016 9:59 AM	09-Dec-2016 6:19 PM	BS
	NA	NA	LABQC	WQ	LABQC	S16L055-CCV1	NA	1/1	09-Dec-2016 10:04 AM	09-Dec-2016 10:04 AM	09-Dec-2016 4:54 PM	CV
	NA	NA	LABQC	WQ	LABQC	S16L055-CCV2	NA	1/1	09-Dec-2016 10:04 AM	09-Dec-2016 10:04 AM	09-Dec-2016 9:59 PM	CV
	NA	NA	LABQC	WQ	LABQC	S16L055-CCV3	NA	1/1	09-Dec-2016 10:04 AM	09-Dec-2016 10:04 AM	10-Dec-2016 2:54 AM	CV
	NA	NA	LABQC	WQ	LABQC	S16L055-CCV4	NA	1/1	09-Dec-2016 10:04 AM	09-Dec-2016 10:04 AM	10-Dec-2016 8:01 AM	CV
	NA	NA	LABQC	WQ	LABQC	S16L055-CCV5	NA	1/1	09-Dec-2016 10:04 AM	09-Dec-2016 10:04 AM	10-Dec-2016 1:03 PM	CV
	NA	NA	LABQC	WQ	LABQC	S16L055-CCV6	NA	1/1	09-Dec-2016 10:04 AM	09-Dec-2016 10:04 AM	10-Dec-2016 5:30 PM	CV
	NA	NA	LABQC	WQ	LABQC	S16I040-CCV1	NA	1/1	12-Sep-2016 9:25 AM	12-Sep-2016 9:25 AM	12-Sep-2016 7:12 PM	CV
	NA	NA	LABQC	WQ	LABQC	S16I040-SCV1	NA	1/1	12-Sep-2016 9:25 AM	12-Sep-2016 9:25 AM	12-Sep-2016 8:14 PM	CV
	NA	NA	LABQC	WQ	LABQC	B16L061-BLK1	NA	1/1	09-Dec-2016 9:59 AM	09-Dec-2016 9:59 AM	09-Dec-2016 5:12 PM	LB

AUTOMATED DATA REVIEW SUMMARY for 1611066

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 1611066

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
A2540C / NONE	Test Hold Time	JWMW-11A-1116 (N)	1 / 1.00	All in Run	7.10	days	J/UJ	< 7	< 14	H1			
A2540C / NONE	Test Hold Time	JWMW-11B-1116 (N)	1 / 1.00	All in Run	7.18	days	J/UJ	< 7	< 14	H1			
A2540C / NONE	Test Hold Time	JWMW-11C-1116 (N)	1 / 1.00	All in Run	7.24	days	J/UJ	< 7	< 14	H1			
A2540C / NONE	Test Hold Time	JWMW-11C-1116 (N)	1 / 1.00	All in Run	7.24	days	J/UJ	< 7	< 14	H1			
A2540C / NONE	Test Hold Time	JWMW-12-1116 (N)	1 / 1.00	All in Run	7.30	days	J/UJ	< 7	< 14	H1			
A2540C / NONE	Test Hold Time	JWMW-911B-1116 (FD)	1 / 1.00	All in Run	7.17	days	J/UJ	< 7	< 14	H1			
E300 / METHOD	Continuing Calibration Verification	S16H083-CAL1 (CV)	1 / 1.00	Chloride	87.0	percent	R/R	90 - 110	90 - 110	C11			
E300 / METHOD	Continuing Calibration Verification	S16H083-CAL2 (CV)	1 / 1.00	Chloride	88.2	percent	R/R	90 - 110	90 - 110	C11			
E300 / METHOD	Continuing Calibration Verification	S16L001-CCV5 (CV)	1 / 1.00	Sulfate (as SO4)	42.8	percent	R/R	90 - 110	90 - 110	C11			

AUTOMATED DATA REVIEW SUMMARY for 1611066

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E300/NONE	WG	JWMW-11A-1116	N	Chloride	10.0	140	140 J	mg/L	C11
E300/NONE	WG	JWMW-11A-1116	N	Sulfate (as SO4)	50.0	1200	1200 J	mg/L	C11
E300/NONE	WG	JWMW-11B-1116	N	Chloride	10.0	120	120 J	mg/L	C11
E300/NONE	WG	JWMW-11B-1116	N	Sulfate (as SO4)	50.0	2600	2600 J	mg/L	C11
E300/NONE	WG	JWMW-11C-1116	N	Chloride	10.0	330	330 J	mg/L	C11
E300/NONE	WG	JWMW-11C-1116	N	Sulfate (as SO4)	50.0	1900	1900 J	mg/L	C11
E300/NONE	WG	JWMW-12-1116	N	Chloride	20.0	350	350 J	mg/L	C11
E300/NONE	WG	JWMW-12-1116	N	Sulfate (as SO4)	50.0	1900	1900 J	mg/L	C11
E300/NONE	WG	JWMW-911B-1116	FD	Chloride	10.0	120	120 J	mg/L	C11
E300/NONE	WG	JWMW-911B-1116	FD	Sulfate (as SO4)	50.0	2600	2600 J	mg/L	C11

AUTOMATED DATA REVIEW SUMMARY for 1611066

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
A2320/NONE	WG	JWMW-11A-1116	N	Alkalinity, Total (as CaCO3)	10.0	680	680	mg/L	
A2320/NONE	WG	JWMW-11A-1116	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	680	680	mg/L	
A2320/NONE	WG	JWMW-11B-1116	N	Alkalinity, Total (as CaCO3)	10.0	720	720	mg/L	
A2320/NONE	WG	JWMW-11B-1116	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	720	720	mg/L	
A2320/NONE	WG	JWMW-11C-1116	N	Alkalinity, Total (as CaCO3)	10.0	420	420	mg/L	
A2320/NONE	WG	JWMW-11C-1116	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	420	420	mg/L	
A2320/NONE	WG	JWMW-12-1116	N	Alkalinity, Total (as CaCO3)	10.0	400	400	mg/L	
A2320/NONE	WG	JWMW-12-1116	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	400	400	mg/L	
A2320/NONE	WG	JWMW-911B-1116	FD	Alkalinity, Total (as CaCO3)	10.0	710	710	mg/L	
A2320/NONE	WG	JWMW-911B-1116	FD	Alkalinity, Bicarbonate (as CaCO3)	10.0	710	710	mg/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
A2540C/NONE	WG	JWMW-11A-1116	N	Total Dissolved Solids	20.0	2600	2600	mg/L	
A2540C/NONE	WG	JWMW-11B-1116	N	Total Dissolved Solids	20.0	4600	4600	mg/L	
A2540C/NONE	WG	JWMW-11C-1116	N	Total Dissolved Solids	20.0	3300	3300	mg/L	
A2540C/NONE	WG	JWMW-12-1116	N	Total Dissolved Solids	20.0	3700	3700	mg/L	
A2540C/NONE	WG	JWMW-911B-1116	FD	Total Dissolved Solids	20.0	4600	4600	mg/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E300/NONE	WG	JWMW-11A-1116	N	Chloride	10.0	140	140 J	mg/L	C11
E300/NONE	WG	JWMW-11A-1116	N	Sulfate (as SO4)	50.0	1200	1200 J	mg/L	C11
E300/NONE	WG	JWMW-11B-1116	N	Chloride	10.0	120	120 J	mg/L	C11
E300/NONE	WG	JWMW-11B-1116	N	Sulfate (as SO4)	50.0	2600	2600 J	mg/L	C11
E300/NONE	WG	JWMW-11C-1116	N	Chloride	10.0	330	330 J	mg/L	C11
E300/NONE	WG	JWMW-11C-1116	N	Sulfate (as SO4)	50.0	1900	1900 J	mg/L	C11
E300/NONE	WG	JWMW-12-1116	N	Chloride	20.0	350	350 J	mg/L	C11
E300/NONE	WG	JWMW-12-1116	N	Sulfate (as SO4)	50.0	1900	1900 J	mg/L	C11

AUTOMATED DATA REVIEW SUMMARY for 1611066

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E300/NONE	WG	JWMW-911B-1116	FD	Chloride	10.0	120	120 J	mg/L	C11
E300/NONE	WG	JWMW-911B-1116	FD	Sulfate (as SO4)	50.0	2600	2600 J	mg/L	C11

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E415.3/NONE	WG	JWMW-11A-1116	N	Total Organic Carbon	0.50	4.5	4.5	mg/L	
E415.3/NONE	WG	JWMW-11B-1116	N	Total Organic Carbon	0.50	4.8	4.8	mg/L	
E415.3/NONE	WG	JWMW-11C-1116	N	Total Organic Carbon	0.50	8.0	8.0	mg/L	
E415.3/NONE	WG	JWMW-12-1116	N	Total Organic Carbon	0.50	2.6	2.6	mg/L	
E415.3/NONE	WG	JWMW-911B-1116	FD	Total Organic Carbon	0.50	4.6	4.6	mg/L	

AUTOMATED DATA REVIEW SUMMARY for 1611066

Rejected Results

--No Records Found--

Facility:	Jervis-Webb Superfund Site
Event:	November 2016 New Wells Sampling
Guidance Document:	Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015
Contract Laboratory:	U.S. EPA, Region 9 Lab, Richmond, CA
Field Contractor:	Gilbane Company, Walnut Creek, CA
Data Review Contractor:	
SDG:	1612001, Certified - 2/27/2018 by wtse
QC Level:	Tier 1A (S2AVEM)
Project Manager:	Don Gruber
Data Reviewer:	Tom Beer
Data Reviewer Title:	Project Chemist
Date of Review Report:	February 02, 2017

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
A2320/NONE	4	1
A2540C/NONE	4	1
E300/NONE	4	1
E314.0/NONE	1	1
E415.3/NONE	4	1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) 1612001. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Continuing Calibration Verification
- Field Duplicate
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- Negative Blank
- Surrogate
- Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 2 results (4.76%) out of the 42 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report, COC as received and receipt checklist.

Analytical Method	Comment

Two perchlorate reporting limits elevated (X) due to a lab equipment malfunction.

No data were rejected.

J. Beer Digitally signed by Tom Beer DN: C=US, E=tbeer@gilbaneco.com, OU="", O="", CN=Tom Beer Date: 2018.03.21 12:44:33-07'00'

Reviewed by ,

February 2, 2017

Qualified Results

Test Method: E314.0	Extraction Method: METHOD		Leach Method: NONE		Matrix: WG			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-05-1116	N	Perchlorate	4.0	4.0 U	4.0 U		ug/L	X
JWMW-98B-1116	FD	Perchlorate	4.0	4.0 U	4.0 U		ug/L	X

Reason Code Definitions

Code	Definition
X	Raised reporting limit

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for 1612001
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: A2320 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
JWMW-05	WG	JWMW-05-1116	B16L051-DUP2	NA	1/1	11/30/2016 07:40		12/8/2016 06:22	/	LR
JWMW-05	WG	JWMW-05-1116	1612001-01	NA	1/1	11/30/2016 07:40		12/8/2016 06:22	/	N
JWMW-08A	WG	JWMW-08A-1116	1612001-02	NA	1/1	11/30/2016 12:44		12/8/2016 06:22	/	N
JWMW-08B	WG	JWMW-08B-1116	1612001-03	NA	1/1	11/30/2016 11:04		12/8/2016 06:22	/	N
JWMW-08B	WG	JWMW-98B-1116	1612001-05	NA	1/1	11/30/2016 11:10		12/8/2016 06:22	/	FD
JWMW-08C	WG	JWMW-08C-1116	1612001-04	NA	1/1	11/30/2016 09:45		12/8/2016 06:22	/	N
LABQC	WQ	LABQC	B16L051-BS1	NA	1/1	12/8/2016 06:22		12/8/2016 06:22	/	BS
LABQC	WQ	LABQC	B16L051-BLK1	NA	1/1	12/8/2016 06:22		12/8/2016 06:22	/	LB

Test Method: A2540C Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
JWMW-05	WG	JWMW-05-1116	B16L039-DUP2	NA	1/1	11/30/2016 07:40		12/6/2016 15:17	/	LR
JWMW-05	WG	JWMW-05-1116	1612001-01	NA	1/1	11/30/2016 07:40		12/6/2016 15:17	/	N
JWMW-08A	WG	JWMW-08A-1116	1612001-02	NA	1/1	11/30/2016 12:44		12/6/2016 15:17	/	N
JWMW-08B	WG	JWMW-08B-1116	1612001-03	NA	1/1	11/30/2016 11:04		12/6/2016 15:17	/	N
JWMW-08B	WG	JWMW-98B-1116	1612001-05	NA	1/1	11/30/2016 11:10		12/6/2016 15:17	/	FD
JWMW-08C	WG	JWMW-08C-1116	1612001-04	NA	1/1	11/30/2016 09:45		12/6/2016 15:17	/	N
LABQC	WQ	LABQC	B16L039-BLK1	NA	1/1	12/6/2016 15:17		12/6/2016 15:17	/	LB

Batch Report

Test Method: E300 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16H083-SCV1	NA	1/1	8/17/2016 10:11	8/17/2016 10:11	8/17/2016 11:59	NA/	CV
LABQC	WQ	LABQC	B16L005-BS1	NA	1/1	12/1/2016 07:44	12/1/2016 07:44	12/1/2016 07:48	NA/	BS
LABQC	WQ	LABQC	S16L001-CCV1	NA	1/1	12/1/2016 07:45	12/1/2016 07:45	12/1/2016 07:48	NA/	CV
LABQC	WQ	LABQC	B16L005-BLK1	NA	1/1	12/1/2016 07:44	12/1/2016 07:44	12/1/2016 08:04	NA/	LB
LABQC	WQ	LABQC	B16L005-BLK2	NA	1/1	12/1/2016 07:44	12/1/2016 07:44	12/1/2016 08:35	NA/	LB
LABQC	WQ	LABQC	S16L001-CCV2	NA	1/1	12/1/2016 07:45	12/1/2016 07:45	12/1/2016 10:22	NA/	CV
LABQC	WQ	LABQC	S16L001-CCV3	NA	1/1	12/1/2016 07:45	12/1/2016 07:45	12/1/2016 12:26	NA/	CV
JWMW-05	WG	JWMW-05-1116	1612001-01	NA	1/100	11/30/2016 07:40	12/1/2016 12:56	12/1/2016 12:56	NA/	N
JWMW-08A	WG	JWMW-08A-1116	1612001-02	NA	1/100	11/30/2016 12:44	12/1/2016 12:56	12/1/2016 13:12	NA/	N
JWMW-08B	WG	JWMW-08B-1116	1612001-03	NA	1/100	11/30/2016 11:04	12/1/2016 12:56	12/1/2016 13:27	NA/	N
JWMW-08B	WG	JWMW-98B-1116	1612001-05	NA	1/100	11/30/2016 11:10	12/1/2016 12:56	12/1/2016 13:58	NA/	FD
JWMW-05	WG	JWMW-05-1116	B16L005-DUP3	NA	1/100	11/30/2016 07:40	12/1/2016 12:56	12/1/2016 14:13	NA/	LR
LABQC	WQ	LABQC	S16L001-CCV4	NA	1/1	12/1/2016 07:45	12/1/2016 07:45	12/1/2016 14:29	NA/	CV
JWMW-05	WG	JWMW-05-1116	1612001-01RE1	NA	1/5	11/30/2016 07:40	12/1/2016 12:56	12/1/2016 15:00	NA/	N
JWMW-05	WG	JWMW-05-1116	B16L005-DUP4	NA	1/5	11/30/2016 07:40	12/1/2016 12:56	12/1/2016 15:15	NA/	LR
JWMW-08A	WG	JWMW-08A-1116	1612001-02RE1	NA	1/10	11/30/2016 12:44	12/1/2016 12:56	12/1/2016 15:30	NA/	N
JWMW-08B	WG	JWMW-08B-1116	1612001-03RE1	NA	1/20	11/30/2016 11:04	12/1/2016 12:56	12/1/2016 15:46	NA/	N
JWMW-08C	WG	JWMW-08C-1116	1612001-04RE1	NA	1/20	11/30/2016 09:45	12/1/2016 12:56	12/1/2016 16:01	NA/	N
JWMW-08B	WG	JWMW-98B-1116	1612001-05RE1	NA	1/20	11/30/2016 11:10	12/1/2016 12:56	12/1/2016 16:32	NA/	FD
LABQC	WQ	LABQC	S16L001-CCV5	NA	1/1	12/1/2016 07:45	12/1/2016 07:45	12/1/2016 16:47	NA/	CV

Test Method: E314.0 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16G003-SCV1	NA	1/1	7/1/2016 09:56	7/1/2016 09:56	7/1/2016 12:39	NA/	CV

Batch Report

Test Method: E314.0 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	B16L099-BS1	NA	1/1	12/20/2016 08:05	12/20/2016 08:05	12/20/2016 11:52	NA/	BS
LABQC	WQ	LABQC	S16L096-CCV1	NA	1/1	12/20/2016 08:08	12/20/2016 08:08	12/20/2016 11:52	NA/	CV
LABQC	WQ	LABQC	B16L099-BLK1	NA	1/1	12/20/2016 08:05	12/20/2016 08:05	12/20/2016 12:29	NA/	LB
LABQC	WQ	LABQC	B16L099-BLK2	NA	1/1	12/20/2016 08:05	12/20/2016 08:05	12/20/2016 12:48	NA/	LB
JWMW-05	WG	JWMW-05-1116	1612001-01	NA	1/2	11/30/2016 07:40	12/20/2016 08:05	12/20/2016 13:06	NA/	N
LABQC	WQ	LABQC	S16L096-CCV2	NA	1/1	12/20/2016 08:08	12/20/2016 08:08	12/20/2016 14:56	NA/	CV
JWMW-08B	WG	JWMW-98B-1116	1612001-05	NA	1/2	11/30/2016 11:10	12/20/2016 08:05	12/20/2016 15:33	NA/	FD
JWMW-05	WG	JWMW-05-1116	B16L099-MS1	NA	1/1	11/30/2016 07:40	12/20/2016 08:05	12/20/2016 15:52	NA/	MS
JWMW-05	WG	JWMW-05-1116	B16L099-MSD1	NA	1/1	11/30/2016 07:40	12/20/2016 08:05	12/20/2016 16:10	NA/	SD
LABQC	WQ	LABQC	S16L096-CCV3	NA	1/1	12/20/2016 08:08	12/20/2016 08:08	12/20/2016 16:28	NA/	CV

Test Method: E415.3 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16I040-CCV1	NA	1/1	9/12/2016 09:25	9/12/2016 09:25	9/12/2016 19:12	NA/	CV
LABQC	WQ	LABQC	S16I040-SCV1	NA	1/1	9/12/2016 09:25	9/12/2016 09:25	9/12/2016 20:14	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV1	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/9/2016 16:54	NA/	CV
LABQC	WQ	LABQC	B16L061-BLK1	NA	1/1	12/9/2016 09:59	12/9/2016 09:59	12/9/2016 17:12	NA/	LB
LABQC	WQ	LABQC	B16L061-BS1	NA	1/1	12/9/2016 09:59	12/9/2016 09:59	12/9/2016 18:19	NA/	BS
LABQC	WQ	LABQC	S16L055-CCV2	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/9/2016 21:59	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV3	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 02:54	NA/	CV
LABQC	WQ	LABQC	S16L055-CCV4	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 08:01	NA/	CV
JWMW-05	WG	JWMW-05-1116	1612001-01	NA	1/1	11/30/2016 07:40	12/9/2016 09:59	12/10/2016 11:37	NA/	N
JWMW-05	WG	JWMW-05-1116	B16L061-MS2	NA	1/1	11/30/2016 07:40	12/9/2016 09:59	12/10/2016 11:59	NA/	MS
JWMW-05	WG	JWMW-05-1116	B16L061-MSD2	NA	1/1	11/30/2016 07:40	12/9/2016 09:59	12/10/2016 12:20	NA/	SD

Batch Report

Test Method: E415.3 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16L055-CCV5	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 13:03	NA/	CV
JWMW-08A	WG	JWMW-08A-1116	1612001-02	NA	1/1	11/30/2016 12:44	12/9/2016 09:59	12/10/2016 13:50	NA/	N
JWMW-08C	WG	JWMW-08C-1116	1612001-04	NA	1/1	11/30/2016 09:45	12/9/2016 09:59	12/10/2016 16:00	NA/	N
LABQC	WQ	LABQC	S16L055-CCV6	NA	1/1	12/9/2016 10:04	12/9/2016 10:04	12/10/2016 17:30	NA/	CV
LABQC	WQ	LABQC	S16L063-CCV1	NA	1/1	12/12/2016 11:12	12/12/2016 11:12	12/12/2016 16:15	NA/	CV
LABQC	WQ	LABQC	B16L071-BLK1	NA	1/1	12/12/2016 11:00	12/12/2016 11:00	12/12/2016 16:34	NA/	LB
LABQC	WQ	LABQC	B16L071-BS1	NA	1/1	12/12/2016 11:00	12/12/2016 11:00	12/12/2016 17:41	NA/	BS
JWMW-08B	WG	JWMW-08B-1116	1612001-03RE1	NA	1/1	11/30/2016 11:04	12/12/2016 11:00	12/12/2016 19:10	NA/	N
JWMW-08B	WG	JWMW-98B-1116	1612001-05RE1	NA	1/1	11/30/2016 11:10	12/12/2016 11:00	12/12/2016 19:53	NA/	FD
LABQC	WQ	LABQC	S16L063-CCV2	NA	1/1	12/12/2016 11:12	12/12/2016 11:12	12/12/2016 22:04	NA/	CV
LABQC	WQ	LABQC	S16L063-CCV3	NA	1/1	12/12/2016 11:12	12/12/2016 11:12	12/13/2016 04:08	NA/	CV
LABQC	WQ	LABQC	S16L063-CCV4	NA	1/1	12/12/2016 11:12	12/12/2016 11:12	12/13/2016 09:23	NA/	CV

Field Batch Report

--No Records Found--

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outliers Report

--No Records Found--

Qualified Results

Test Method: E314.0 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-05-1116	1612001-01	WG	N	Perchlorate	4.00	4.00 U	4.00 U		ug/L	X
JWMW-98B-1116	1612001-05	WG	FD	Perchlorate	4.00	4.00 U	4.00 U		ug/L	X

Detected Results

Test Method: A2320 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-05-1116	1612001-01	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	610	610	mg/L	
JWMW-05-1116	1612001-01	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	610	610	mg/L	
JWMW-08A-1116	1612001-02	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	590	590	mg/L	
JWMW-08A-1116	1612001-02	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	590	590	mg/L	
JWMW-08B-1116	1612001-03	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	620	620	mg/L	
JWMW-08B-1116	1612001-03	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	620	620	mg/L	
JWMW-08C-1116	1612001-04	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	390	390	mg/L	
JWMW-08C-1116	1612001-04	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	390	390	mg/L	
JWMW-98B-1116	1612001-05	WG	FD	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	570	570	mg/L	
JWMW-98B-1116	1612001-05	WG	FD	1	Alkalinity, Total (as CaCO3)	10.0	570	570	mg/L	

Test Method: A2540C Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-05-1116	1612001-01	WG	N	1	Total Dissolved Solids	20.0	4700	4700	mg/L	
JWMW-08A-1116	1612001-02	WG	N	1	Total Dissolved Solids	20.0	2500	2500	mg/L	
JWMW-08B-1116	1612001-03	WG	N	1	Total Dissolved Solids	20.0	3600	3600	mg/L	
JWMW-08C-1116	1612001-04	WG	N	1	Total Dissolved Solids	20.0	1500	1500	mg/L	
JWMW-98B-1116	1612001-05	WG	FD	1	Total Dissolved Solids	20.0	3400	3400	mg/L	

Test Method: E300 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-05-1116	1612001-01	WG	N	100	Sulfate (as SO4)	50.0	3000	3000	mg/L	
JWMW-05-1116	1612001-01RE1	WG	N	5	Chloride	5.00	61.0	61.0	mg/L	
JWMW-08A-1116	1612001-02	WG	N	100	Sulfate (as SO4)	50.0	1100	1100	mg/L	

Detected Results

Test Method: E300 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-08A-1116	1612001-02RE1	WG	N	10	Chloride	10.0	160	160	mg/L	
JWMW-08B-1116	1612001-03	WG	N	100	Sulfate (as SO4)	50.0	1500	1500	mg/L	
JWMW-08B-1116	1612001-03RE1	WG	N	20	Chloride	20.0	330	330	mg/L	
JWMW-08C-1116	1612001-04RE1	WG	N	20	Chloride	20.0	150	150	mg/L	
JWMW-08C-1116	1612001-04RE1	WG	N	20	Sulfate (as SO4)	10.0	600	600	mg/L	
JWMW-98B-1116	1612001-05	WG	FD	100	Sulfate (as SO4)	50.0	1500	1500	mg/L	
JWMW-98B-1116	1612001-05RE1	WG	FD	20	Chloride	20.0	320	320	mg/L	

Test Method: E415.3 Extraction Method: TOTAL Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-05-1116	1612001-01	WG	N	1	Total Organic Carbon	0.500	4.70	4.70	mg/L	
JWMW-08A-1116	1612001-02	WG	N	1	Total Organic Carbon	0.500	4.50	4.50	mg/L	
JWMW-08B-1116	1612001-03RE1	WG	N	1	Total Organic Carbon	3.50	160	160	mg/L	
JWMW-08C-1116	1612001-04	WG	N	1	Total Organic Carbon	0.500	27.0	27.0	mg/L	
JWMW-98B-1116	1612001-05RE1	WG	FD	1	Total Organic Carbon	3.50	160	160	mg/L	

Rejected Results

--No Records Found--

Facility:	Jervis-Webb Superfund Site
Event:	November 2016 New Wells Sampling
Guidance Document:	Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015
Contract Laboratory:	U.S. EPA, Region 9 Lab, Richmond, CA
Field Contractor:	Gilbane Company, Walnut Creek, CA
Data Review Contractor:	
SDG:	1612025, Certified - 2/27/2018 by wtse
QC Level:	
Project Manager:	
Data Reviewer:	
Data Reviewer Title:	
Date of Review Report:	

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
A2320/NONE	6	1
A2540C/NONE	6	1
E300/NONE	6	1
E415.3/NONE	6	1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) 1612025. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

Blank
Blank - Negative
Continuing Calibration Verification
Field Duplicate
LCS Recovery
Prep Hold Time
Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

Ambient Blank
Calibration Blank
Calibration Blank - Negative
Equipment Blank
Field Blank
Initial Calibration Verification
Lab Replicate RPD
Material Blank
MS Recovery
MS RPD
Negative Blank
Surrogate
Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 56 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report, COC as received and receipt checklist.

Analytical Method	Comment

A field duplicate issue was resolved, no further data qualification is warranted, and no data were rejected.

Digitally signed by Tom Beer
DN: C=US, E=tbeer@gilbaneco.com, OU="", O="", CN=Tom Beer
Date: 2018.03.21 12:30:58-07'00'

February 2, 2017

Reviewed by ,

Qualified Results

Test Method: A2320	Extraction Method: NONE		Leach Method: NONE		Matrix: WG			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-07A-1116	N	Alkalinity, Carbonate (as CaCO3)	10.0	8.1	8.1 J		mg/L	TR
JWMW-07C-1116	N	Alkalinity, Carbonate (as CaCO3)	10.0	8.1	8.1 J		mg/L	TR

Reason Code Definitions

Code	Definition
D5	Field duplicate precision
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for 1612025
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: A2320 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
JWMW-06A	WG	JWMW-06A-1116	1612025-01	NA	1/1	12/2/2016 04:21		12/8/2016 06:22	/	N
JWMW-06B	WG	JWMW-06B-1116	1612025-02	NA	1/1	12/2/2016 03:30		12/8/2016 06:22	/	N
JWMW-06C	WG	JWMW-06C-1116	1612025-03	NA	1/1	12/2/2016 02:45		12/8/2016 06:22	/	N
JWMW-07A	WG	JWMW-07A-1116	1612025-04	NA	1/1	12/2/2016 01:23		12/8/2016 06:22	/	N
JWMW-07B	WG	JWMW-07B-1116	1612025-05	NA	1/1	12/2/2016 00:27		12/8/2016 06:22	/	N
JWMW-07C	WG	JWMW-07C-1116	1612025-06	NA	1/1	12/1/2016 23:36		12/8/2016 06:22	/	N
JWMW-07C	WG	JWMW-97C-1116	1612025-07	NA	1/1	12/1/2016 23:45		12/8/2016 06:22	/	FD
LABQC	WQ	LABQC	B16L051-BS1	NA	1/1	12/8/2016 06:22		12/8/2016 06:22	/	BS
LABQC	WQ	LABQC	B16L051-BLK1	NA	1/1	12/8/2016 06:22		12/8/2016 06:22	/	LB

Test Method: A2540C Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
JWMW-06A	WG	JWMW-06A-1116	1612025-01	NA	1/1	12/2/2016 04:21		12/6/2016 15:17	/	N
JWMW-06B	WG	JWMW-06B-1116	1612025-02	NA	1/1	12/2/2016 03:30		12/6/2016 15:17	/	N
JWMW-06C	WG	JWMW-06C-1116	1612025-03	NA	1/1	12/2/2016 02:45		12/6/2016 15:17	/	N
JWMW-07A	WG	JWMW-07A-1116	1612025-04	NA	1/1	12/2/2016 01:23		12/6/2016 15:17	/	N
JWMW-07B	WG	JWMW-07B-1116	1612025-05	NA	1/1	12/2/2016 00:27		12/6/2016 15:17	/	N
JWMW-07C	WG	JWMW-07C-1116	1612025-06	NA	1/1	12/1/2016 23:36		12/6/2016 15:17	/	N
JWMW-07C	WG	JWMW-97C-1116	1612025-07	NA	1/1	12/1/2016 23:45		12/6/2016 15:17	/	FD
LABQC	WQ	LABQC	B16L039-BLK1	NA	1/1	12/6/2016 15:17		12/6/2016 15:17	/	LB

Batch Report

Test Method: E300 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16H083-SCV1	NA	1/1	8/17/2016 10:11	8/17/2016 10:11	8/17/2016 11:59	NA/	CV
LABQC	WQ	LABQC	B16L029-BS1	NA	1/1	12/6/2016 07:47	12/6/2016 07:47	12/6/2016 07:59	NA/	BS
LABQC	WQ	LABQC	S16L028-CCV1	NA	1/1	12/6/2016 07:55	12/6/2016 07:55	12/6/2016 07:59	NA/	CV
LABQC	WQ	LABQC	B16L029-BLK1	NA	1/1	12/6/2016 07:47	12/6/2016 07:47	12/6/2016 08:15	NA/	LB
LABQC	WQ	LABQC	B16L029-BLK2	NA	1/1	12/6/2016 07:47	12/6/2016 07:47	12/6/2016 08:45	NA/	LB
JWMW-06A	WG	JWMW-06A-1116	1612025-01	NA	1/100	12/2/2016 04:21	12/6/2016 07:47	12/6/2016 09:01	NA/	N
JWMW-06B	WG	JWMW-06B-1116	1612025-02	NA	1/100	12/2/2016 03:30	12/6/2016 07:47	12/6/2016 09:16	NA/	N
JWMW-07A	WG	JWMW-07A-1116	1612025-04	NA	1/100	12/2/2016 01:23	12/6/2016 07:47	12/6/2016 09:47	NA/	N
LABQC	WQ	LABQC	S16L028-CCV2	NA	1/1	12/6/2016 07:55	12/6/2016 07:55	12/6/2016 11:04	NA/	CV
JWMW-07C	WG	JWMW-07C-1116	1612025-06RE1	NA	1/10	12/1/2016 23:36	12/6/2016 07:47	12/6/2016 11:35	NA/	N
JWMW-07C	WG	JWMW-97C-1116	1612025-07RE1	NA	1/10	12/1/2016 23:45	12/6/2016 07:47	12/6/2016 11:50	NA/	FD
JWMW-07B	WG	JWMW-07B-1116	1612025-05RE1	NA	1/10	12/2/2016 00:27	12/6/2016 07:47	12/6/2016 12:06	NA/	N
JWMW-06C	WG	JWMW-06C-1116	1612025-03RE1	NA	1/10	12/2/2016 02:45	12/6/2016 07:47	12/6/2016 12:21	NA/	N
JWMW-06C	WG	JWMW-06C-1116	1612025-03RE2	NA	1/5	12/2/2016 02:45	12/6/2016 07:47	12/6/2016 12:37	NA/	N
JWMW-07A	WG	JWMW-07A-1116	1612025-04RE1	NA	1/5	12/2/2016 01:23	12/6/2016 07:47	12/6/2016 12:52	NA/	N
JWMW-06A	WG	JWMW-06A-1116	1612025-01RE1	NA	1/10	12/2/2016 04:21	12/6/2016 07:47	12/6/2016 13:07	NA/	N
JWMW-06B	WG	JWMW-06B-1116	1612025-02RE1	NA	1/10	12/2/2016 03:30	12/6/2016 07:47	12/6/2016 13:38	NA/	N
LABQC	WQ	LABQC	S16L028-CCV3	NA	1/1	12/6/2016 07:55	12/6/2016 07:55	12/6/2016 13:54	NA/	CV

Test Method: E415.3 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S16I040-CCV1	NA	1/1	9/12/2016 09:25	9/12/2016 09:25	9/12/2016 19:12	NA/	CV
LABQC	WQ	LABQC	S16I040-SCV1	NA	1/1	9/12/2016 09:25	9/12/2016 09:25	9/12/2016 20:14	NA/	CV
LABQC	WQ	LABQC	S16L063-CCV1	NA	1/1	12/12/2016 11:12	12/12/2016 11:12	12/12/2016 16:15	NA/	CV

Batch Report

Test Method: E415.3 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	B16L071-BLK1	NA	1/1	12/12/2016 11:00	12/12/2016 11:00	12/12/2016 16:34	NA/	LB
LABQC	WQ	LABQC	B16L071-BS1	NA	1/1	12/12/2016 11:00	12/12/2016 11:00	12/12/2016 17:41	NA/	BS
LABQC	WQ	LABQC	S16L063-CCV2	NA	1/1	12/12/2016 11:12	12/12/2016 11:12	12/12/2016 22:04	NA/	CV
JWMW-06B	WG	JWMW-06B-1116	1612025-02	NA	1/1	12/2/2016 03:30	12/12/2016 11:00	12/13/2016 03:26	NA/	N
LABQC	WQ	LABQC	S16L063-CCV3	NA	1/1	12/12/2016 11:12	12/12/2016 11:12	12/13/2016 04:08	NA/	CV
JWMW-06C	WG	JWMW-06C-1116	1612025-03	NA	1/1	12/2/2016 02:45	12/12/2016 11:00	12/13/2016 04:51	NA/	N
JWMW-07A	WG	JWMW-07A-1116	1612025-04	NA	1/1	12/2/2016 01:23	12/12/2016 11:00	12/13/2016 05:58	NA/	N
JWMW-07B	WG	JWMW-07B-1116	1612025-05	NA	1/1	12/2/2016 00:27	12/12/2016 11:00	12/13/2016 06:20	NA/	N
JWMW-07C	WG	JWMW-07C-1116	1612025-06	NA	1/1	12/1/2016 23:36	12/12/2016 11:00	12/13/2016 06:41	NA/	N
JWMW-07C	WG	JWMW-97C-1116	1612025-07	NA	1/1	12/1/2016 23:45	12/12/2016 11:00	12/13/2016 07:51	NA/	FD
JWMW-06A	WG	JWMW-06A-1116	1612025-01RE1	NA	1/1	12/2/2016 04:21	12/12/2016 11:00	12/13/2016 08:26	NA/	N
LABQC	WQ	LABQC	S16L063-CCV4	NA	1/1	12/12/2016 11:12	12/12/2016 11:12	12/13/2016 09:23	NA/	CV

Field Batch Report

--No Records Found--

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: A2320 Extraction Method: NONE Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Field Duplicate	JWMW-07C-1116 (N) / 1612025-07	1 / 1.00	Alkalinity, Carbonate (as CaCO3)	200.0 (rpd)	J/None	< 25	< 50	D5			

Rule is the multiplier used when blank contamination occurs to determine action level.

Qualified Results

Test Method: A2320 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-07A-1116	1612025-04	WG	N	Alkalinity, Carbonate (as CaCO3)	10.0	8.10	8.10 J		mg/L	TR
JWMW-07C-1116	1612025-06	WG	N	Alkalinity, Carbonate (as CaCO3)	10.0	8.10	8.10 J		mg/L	TR

Detected Results

Test Method: A2320 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-06A-1116	1612025-01	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	600	600	mg/L	
JWMW-06A-1116	1612025-01	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	600	600	mg/L	
JWMW-06B-1116	1612025-02	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	560	560	mg/L	
JWMW-06B-1116	1612025-02	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	560	560	mg/L	
JWMW-06C-1116	1612025-03	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	430	430	mg/L	
JWMW-06C-1116	1612025-03	WG	N	1	Alkalinity, Carbonate (as CaCO3)	10.0	24.0	24.0	mg/L	
JWMW-06C-1116	1612025-03	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	450	450	mg/L	
JWMW-07A-1116	1612025-04	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	650	650	mg/L	
JWMW-07A-1116	1612025-04	WG	N	1	Alkalinity, Carbonate (as CaCO3)	10.0	8.10	8.10 J	mg/L	TR
JWMW-07A-1116	1612025-04	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	660	660	mg/L	
JWMW-07B-1116	1612025-05	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	440	440	mg/L	
JWMW-07B-1116	1612025-05	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	440	440	mg/L	
JWMW-07C-1116	1612025-06	WG	N	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	440	440	mg/L	
JWMW-07C-1116	1612025-06	WG	N	1	Alkalinity, Carbonate (as CaCO3)	10.0	8.10	8.10 J	mg/L	TR
JWMW-07C-1116	1612025-06	WG	N	1	Alkalinity, Total (as CaCO3)	10.0	450	450	mg/L	
JWMW-97C-1116	1612025-07	WG	FD	1	Alkalinity, Bicarbonate (as CaCO3)	10.0	430	430	mg/L	
JWMW-97C-1116	1612025-07	WG	FD	1	Alkalinity, Total (as CaCO3)	10.0	430	430	mg/L	

Test Method: A2540C Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-06A-1116	1612025-01	WG	N	1	Total Dissolved Solids	20.0	3400	3400	mg/L	
JWMW-06B-1116	1612025-02	WG	N	1	Total Dissolved Solids	20.0	4500	4500	mg/L	
JWMW-06C-1116	1612025-03	WG	N	1	Total Dissolved Solids	20.0	990	990	mg/L	
JWMW-07A-1116	1612025-04	WG	N	1	Total Dissolved Solids	20.0	5400	5400	mg/L	
JWMW-07B-1116	1612025-05	WG	N	1	Total Dissolved Solids	20.0	1300	1300	mg/L	

Detected Results

Test Method: A2540C Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-07C-1116	1612025-06	WG	N	1	Total Dissolved Solids	20.0	1100	1100	mg/L	
JWMW-97C-1116	1612025-07	WG	FD	1	Total Dissolved Solids	20.0	1100	1100	mg/L	

Test Method: E300 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-06A-1116	1612025-01	WG	N	100	Sulfate (as SO4)	50.0	1800	1800	mg/L	
JWMW-06A-1116	1612025-01RE1	WG	N	10	Chloride	10.0	150	150	mg/L	
JWMW-06B-1116	1612025-02	WG	N	100	Sulfate (as SO4)	50.0	2700	2700	mg/L	
JWMW-06B-1116	1612025-02RE1	WG	N	10	Chloride	10.0	110	110	mg/L	
JWMW-06C-1116	1612025-03RE1	WG	N	10	Sulfate (as SO4)	5.00	290	290	mg/L	
JWMW-06C-1116	1612025-03RE2	WG	N	5	Chloride	5.00	66.0	66.0	mg/L	
JWMW-07A-1116	1612025-04	WG	N	100	Sulfate (as SO4)	50.0	3300	3300	mg/L	
JWMW-07A-1116	1612025-04RE1	WG	N	5	Chloride	5.00	61.0	61.0	mg/L	
JWMW-07B-1116	1612025-05RE1	WG	N	10	Chloride	10.0	90.0	90.0	mg/L	
JWMW-07B-1116	1612025-05RE1	WG	N	10	Sulfate (as SO4)	5.00	490	490	mg/L	
JWMW-07C-1116	1612025-06RE1	WG	N	10	Chloride	10.0	72.0	72.0	mg/L	
JWMW-07C-1116	1612025-06RE1	WG	N	10	Sulfate (as SO4)	5.00	400	400	mg/L	
JWMW-97C-1116	1612025-07RE1	WG	FD	10	Chloride	10.0	72.0	72.0	mg/L	
JWMW-97C-1116	1612025-07RE1	WG	FD	10	Sulfate (as SO4)	5.00	410	410	mg/L	

Test Method: E415.3 Extraction Method: TOTAL Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-06A-1116	1612025-01RE1	WG	N	1	Total Organic Carbon	1.20	12.0	12.0	mg/L	
JWMW-06B-1116	1612025-02	WG	N	1	Total Organic Carbon	0.500	8.40	8.40	mg/L	

Detected Results

Test Method: E415.3 Extraction Method: TOTAL Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-06C-1116	1612025-03	WG	N	1	Total Organic Carbon	0.500	2.90	2.90	mg/L	
JWMW-07A-1116	1612025-04	WG	N	1	Total Organic Carbon	0.500	5.60	5.60	mg/L	
JWMW-07B-1116	1612025-05	WG	N	1	Total Organic Carbon	0.500	3.60	3.60	mg/L	
JWMW-07C-1116	1612025-06	WG	N	1	Total Organic Carbon	0.500	2.80	2.80	mg/L	
JWMW-97C-1116	1612025-07	WG	FD	1	Total Organic Carbon	0.500	3.10	3.10	mg/L	

Rejected Results

--No Records Found--

Facility:	Jervis-Webb Superfund Site
Event:	February 2017 Soil Gas Sampling
Guidance Document:	Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015
Contract Laboratory:	U.S. EPA, Region 9 Lab, Richmond, CA
Field Contractor:	Gilbane Company, Walnut Creek, CA
Data Review Contractor:	
SDG:	1702057, Certified - 2/27/2018 by wtse
QC Level:	S2BVEM (Tier 1B)
Project Manager:	Don Gruber - Gilbane
Data Reviewer:	Tom Beer - Gilbane
Data Reviewer Title:	Project Chemist
Date of Review Report:	4/10/2017

Analytical Method/ Leach Method	Normal Gaseous Samples	Field QC Gaseous Samples
TO15/NONE	4	

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) 1702057. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

Blank
Blank - Negative
Continuing Calibration Verification
Lab Replicate RPD
LCS Recovery
Prep Hold Time
Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

Ambient Blank
Calibration Blank
Calibration Blank - Negative
Equipment Blank
Field Blank
Field Duplicate
Initial Calibration Verification
Material Blank
MS Recovery
MS RPD
Negative Blank
Surrogate
Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 16 results (10.26%) out of the 156 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Analytical Method	Comment
TO-15	All continuing calibration anomalies (C11) were resolved except for chloromethane and isopropanol, that were estimated J/UJ in all samples.
TO-15	One result for cis-1,2-DCE was estimated (J) due to poor precision (D5) with the field lab result by SW8260B.
TO-15	No data were rejected.
TO-15	No initial and final vacuum pressures were recorded on the COC, but no data qualification appears warranted based on field notes and lab sample multipliers based on sample pressures.

J. Beer

Digitally signed by Tom Beer
DN: C=US, E=tbeer@gilbaneco.com, OU="", O="", CN=Tom Beer
Date: 2018.03.21 12:05:38-07'00'

April 10, 2017

Reviewed by ,

Qualified Results

Test Method: TO15	Extraction Method: NONE		Leach Method: NONE		Matrix: GS			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-SB/SG31-25E	N	1,2,4-Trichlorobenzene	10.0	10.0 U	10.0 UJ	-	UG/M3	C11
JW-SB/SG31-25E	N	1,4-Dioxane (p-Dioxane)	7.0	7.0	7.0 J	-	UG/M3	C11
JW-SB/SG31-25E	N	Bromomethane	7.0	7.0 U	7.0 UJ	-	UG/M3	C11
JW-SB/SG31-25E	N	Chloromethane	4.0	5.0	5.0 J	+	UG/M3	C11
JW-SB/SG31-25E	N	Methylene Chloride	6.0	5.0	5.0 J		UG/M3	TR
JW-SB/SG32-15E	N	1,2,4-Trichlorobenzene	20.0	20.0 U	20.0 UJ	-	UG/M3	C11
JW-SB/SG32-15E	N	1,4-Dioxane (p-Dioxane)	8.0	8.0 U	8.0 UJ	-	UG/M3	C11
JW-SB/SG32-15E	N	Bromomethane	8.0	8.0 U	8.0 UJ	-	UG/M3	C11
JW-SB/SG32-15E	N	Chloromethane	4.0	4.0	4.0 J	+	UG/M3	C11
JW-SB/SG32-15E	N	Isopropanol	5.0	3.0	3.0 J	+	UG/M3	C11/TR
JW-SB/SG32-15E	N	m,p-Xylene	20.0	10.0	10.0 J		UG/M3	TR
JW-SB/SG32-15E	N	Methylene Chloride	8.0	5.0	5.0 J		UG/M3	TR
JW-SB/SG32-15E	N	Trichlorofluoromethane	10.0	7.0	7.0 J		UG/M3	TR
JW-SB/SG33-35E	N	1,2,4-Trichlorobenzene	10.0	10.0 U	10.0 UJ	-	UG/M3	C11
JW-SB/SG33-35E	N	1,4-Dioxane (p-Dioxane)	7.0	7.0 U	7.0 UJ	-	UG/M3	C11
JW-SB/SG33-35E	N	Bromomethane	7.0	7.0 U	7.0 UJ	-	UG/M3	C11
JW-SB/SG33-35E	N	Isopropanol	4.0	2.0	2.0 J	+	UG/M3	C11/TR
JW-SB/SG33-35E	N	Methylene Chloride	6.0	4.0	4.0 J		UG/M3	TR
JW-SB/SG33-35E	N	Vinyl Chloride	5.0	4.0	4.0 J		UG/M3	TR
JW-SB/SG34-05E	N	1,2,4-Trichlorobenzene	20.0	20.0 U	20.0 UJ	-	UG/M3	C11
JW-SB/SG34-05E	N	1,4-Dioxane (p-Dioxane)	8.0	8.0 U	8.0 UJ	-	UG/M3	C11
JW-SB/SG34-05E	N	Benzene	7.0	4.0	4.0 J		UG/M3	TR
JW-SB/SG34-05E	N	Bromomethane	8.0	8.0 U	8.0 UJ	-	UG/M3	C11

Reason Code Definitions

Code	Definition
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for 1702057
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: TO15 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	GQ	LABQC	S17B014-SCV1	NA	1/1	2/3/2017 00:23		2/3/2017 00:23	/	CV
LABQC	GQ	LABQC	B17B143-BS1	NA	1/1	2/23/2017 10:35		2/23/2017 10:35	/	BS
LABQC	GQ	LABQC	S17B108-CCV1	NA	1/1	2/23/2017 10:35		2/23/2017 10:35	/	CV
LABQC	GQ	LABQC	B17B143-BLK1	NA	1/1	2/23/2017 12:17		2/23/2017 12:17	/	LB
JW-SB/SG34	GS	JW-SB/SG34-05E	1702057-01	NA	1/2.15	2/16/2017 09:50		2/23/2017 17:14	/	N
JW-SB/SG32	GS	JW-SB/SG32-15E	1702057-02	NA	1/2.18	2/16/2017 11:28		2/23/2017 18:05	/	N
JW-SB/SG31	GS	JW-SB/SG31-25E	1702057-03	NA	1/1.81	2/16/2017 13:21		2/23/2017 18:56	/	N
JW-SB/SG33	GS	JW-SB/SG33-35E	1702057-04	NA	1/1.81	2/16/2017 14:58		2/23/2017 19:48	/	N
JW-SB/SG33	GS	JW-SB/SG33-35E	B17B143-DUP2	NA	1/1.81	2/16/2017 14:58		2/23/2017 20:40	/	LR
LABQC	GQ	LABQC	B17B152-BS1	NA	1/1	2/24/2017 10:47		2/24/2017 10:47	/	BS
LABQC	GQ	LABQC	S17B115-CCV1	NA	1/1	2/24/2017 10:47		2/24/2017 10:47	/	CV
LABQC	GQ	LABQC	B17B152-BLK1	NA	1/1	2/24/2017 12:27		2/24/2017 12:27	/	LB
JW-SB/SG34	GS	JW-SB/SG34-05E	1702057-01RE1	NA	1/2.15	2/16/2017 09:50		2/24/2017 14:07	/	N
JW-SB/SG33	GS	JW-SB/SG33-35E	1702057-04RE1	NA	1/127.52	2/16/2017 14:58		2/24/2017 14:56	/	N
JW-SB/SG31	GS	JW-SB/SG31-25E	1702057-03RE2	NA	1/6.93	2/16/2017 13:21		2/24/2017 17:12	/	N

Field Batch Report

--No Records Found--

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Continuing Calibration Verification	S17B014-SCV1 (CV) / S17B014-SCV1	1 / 1.00	1,2,4-Trichlorobenzene	76.36 (percent)	J/UJ	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B014-SCV1 (CV) / S17B014-SCV1	1 / 1.00	2-Butanone (MEK)	122.0 (percent)	J/None	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B014-SCV1 (CV) / S17B014-SCV1	1 / 1.00	2-Hexanone	121.0 (percent)	J/None	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B014-SCV1 (CV) / S17B014-SCV1	1 / 1.00	Benzyl chloride	147.3 (percent)	J/None	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B014-SCV1 (CV) / S17B014-SCV1	1 / 1.00	Bromomethane	77.82 (percent)	J/UJ	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B014-SCV1 (CV) / S17B014-SCV1	1 / 1.00	Chloromethane	144.5 (percent)	J/None	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B014-SCV1 (CV) / S17B014-SCV1	1 / 1.00	Dibromochloromethane	120.4 (percent)	J/None	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B014-SCV1 (CV) / S17B014-SCV1	1 / 1.00	Isopropanol	135.5 (percent)	J/None	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B014-SCV1 (CV) / S17B014-SCV1	1 / 1.00	tert-Butyl Methyl Ether (MTBE)	127.0 (percent)	J/None	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B014-SCV1 (CV) / S17B014-SCV1	1 / 1.00	Vinyl Acetate	129.1 (percent)	J/None	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B108-CCV1 (CV) / S17B108-CCV1	1 / 1.00	1,2,4-Trichlorobenzene	75.32 (percent)	J/UJ	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B108-CCV1 (CV) / S17B108-CCV1	1 / 1.00	1,4-Dioxane (p-Dioxane)	76.04 (percent)	J/UJ	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B115-CCV1 (CV) / S17B115-CCV1	1 / 1.00	1,2,4-Trichlorobenzene	72.34 (percent)	J/UJ	80 - 120	50 - 130	C11			
Continuing Calibration Verification	S17B115-CCV1 (CV) / S17B115-CCV1	1 / 1.00	1,4-Dioxane (p-Dioxane)	74.62 (percent)	J/UJ	80 - 120	50 - 130	C11			

Rule is the multiplier used when blank contamination occurs to determine action level.

Qualified Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-SB/SG31-25E	1702057-03	GS	N	1,2,4-Trichlorobenzene	10.0	10.0 U	10.0 UJ	-	UG/M3	C11
JW-SB/SG31-25E	1702057-03	GS	N	1,4-Dioxane (p-Dioxane)	7.00	7.00	7.00 J	-	UG/M3	C11
JW-SB/SG31-25E	1702057-03	GS	N	Bromomethane	7.00	7.00 U	7.00 UJ	-	UG/M3	C11
JW-SB/SG31-25E	1702057-03	GS	N	Chloromethane	4.00	5.00	5.00 J	+	UG/M3	C11
JW-SB/SG31-25E	1702057-03	GS	N	Methylene Chloride	6.00	5.00	5.00 J		UG/M3	TR
JW-SB/SG32-15E	1702057-02	GS	N	1,2,4-Trichlorobenzene	20.0	20.0 U	20.0 UJ	-	UG/M3	C11
JW-SB/SG32-15E	1702057-02	GS	N	1,4-Dioxane (p-Dioxane)	8.00	8.00 U	8.00 UJ	-	UG/M3	C11
JW-SB/SG32-15E	1702057-02	GS	N	Bromomethane	8.00	8.00 U	8.00 UJ	-	UG/M3	C11
JW-SB/SG32-15E	1702057-02	GS	N	Chloromethane	4.00	4.00	4.00 J	+	UG/M3	C11
JW-SB/SG32-15E	1702057-02	GS	N	Isopropanol	5.00	3.00	3.00 J	+	UG/M3	C11/TR
JW-SB/SG32-15E	1702057-02	GS	N	m,p-Xylene	20.0	10.0	10.0 J		UG/M3	TR
JW-SB/SG32-15E	1702057-02	GS	N	Methylene Chloride	8.00	5.00	5.00 J		UG/M3	TR
JW-SB/SG32-15E	1702057-02	GS	N	Trichlorofluoromethane	10.0	7.00	7.00 J		UG/M3	TR
JW-SB/SG33-35E	1702057-04	GS	N	1,2,4-Trichlorobenzene	10.0	10.0 U	10.0 UJ	-	UG/M3	C11
JW-SB/SG33-35E	1702057-04	GS	N	1,4-Dioxane (p-Dioxane)	7.00	7.00 U	7.00 UJ	-	UG/M3	C11
JW-SB/SG33-35E	1702057-04	GS	N	Bromomethane	7.00	7.00 U	7.00 UJ	-	UG/M3	C11
JW-SB/SG33-35E	1702057-04	GS	N	Isopropanol	4.00	2.00	2.00 J	+	UG/M3	C11/TR
JW-SB/SG33-35E	1702057-04	GS	N	Methylene Chloride	6.00	4.00	4.00 J		UG/M3	TR
JW-SB/SG33-35E	1702057-04	GS	N	Vinyl Chloride	5.00	4.00	4.00 J		UG/M3	TR
JW-SB/SG34-05E	1702057-01	GS	N	1,2,4-Trichlorobenzene	20.0	20.0 U	20.0 UJ	-	UG/M3	C11
JW-SB/SG34-05E	1702057-01	GS	N	1,4-Dioxane (p-Dioxane)	8.00	8.00 U	8.00 UJ	-	UG/M3	C11
JW-SB/SG34-05E	1702057-01	GS	N	Benzene	7.00	4.00	4.00 J		UG/M3	TR
JW-SB/SG34-05E	1702057-01	GS	N	Bromomethane	8.00	8.00 U	8.00 UJ	-	UG/M3	C11

Detected Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JW-SB/SG31-25E	1702057-03	GS	N	2	1,1-Dichloroethane	7.00	7.00	7.00	UG/M3	
JW-SB/SG31-25E	1702057-03	GS	N	2	1,1-Dichloroethene	7.00	60.0	60.0	UG/M3	
JW-SB/SG31-25E	1702057-03	GS	N	2	1,4-Dioxane (p-Dioxane)	7.00	7.00	7.00 J	UG/M3	C11
JW-SB/SG31-25E	1702057-03	GS	N	2	Benzene	6.00	10.0	10.0	UG/M3	
JW-SB/SG31-25E	1702057-03	GS	N	2	Chloromethane	4.00	5.00	5.00 J	UG/M3	C11
JW-SB/SG31-25E	1702057-03	GS	N	2	cis-1,2-Dichloroethylene	7.00	100	100	UG/M3	
JW-SB/SG31-25E	1702057-03	GS	N	2	Methylene Chloride	6.00	5.00	5.00 J	UG/M3	TR
JW-SB/SG31-25E	1702057-03	GS	N	2	Tetrachloroethene (PCE)	10.0	30.0	30.0	UG/M3	
JW-SB/SG31-25E	1702057-03	GS	N	2	Toluene	7.00	40.0	40.0	UG/M3	
JW-SB/SG31-25E	1702057-03	GS	N	2	Vinyl Chloride	5.00	7.00	7.00	UG/M3	
JW-SB/SG31-25E	1702057-03RE2	GS	N	7	Trichloroethene (TCE)	400	3800	3800	UG/M3	
JW-SB/SG32-15E	1702057-02	GS	N	2	Benzene	7.00	50.0	50.0	UG/M3	
JW-SB/SG32-15E	1702057-02	GS	N	2	Chloroform	10.0	20.0	20.0	UG/M3	
JW-SB/SG32-15E	1702057-02	GS	N	2	Chloromethane	4.00	4.00	4.00 J	UG/M3	C11
JW-SB/SG32-15E	1702057-02	GS	N	2	Isopropanol	5.00	3.00	3.00 J	UG/M3	C11/TR
JW-SB/SG32-15E	1702057-02	GS	N	2	m,p-Xylene	20.0	10.0	10.0 J	UG/M3	TR
JW-SB/SG32-15E	1702057-02	GS	N	2	Methylene Chloride	8.00	5.00	5.00 J	UG/M3	TR
JW-SB/SG32-15E	1702057-02	GS	N	2	Tetrachloroethene (PCE)	10.0	100	100	UG/M3	
JW-SB/SG32-15E	1702057-02	GS	N	2	Toluene	8.00	70.0	70.0	UG/M3	
JW-SB/SG32-15E	1702057-02	GS	N	2	Trichloroethene (TCE)	10.0	30.0	30.0	UG/M3	
JW-SB/SG32-15E	1702057-02	GS	N	2	Trichlorofluoromethane	10.0	7.00	7.00 J	UG/M3	TR
JW-SB/SG33-35E	1702057-04	GS	N	2	1,1-Dichloroethane	7.00	20.0	20.0	UG/M3	
JW-SB/SG33-35E	1702057-04	GS	N	2	1,1-Dichloroethene	7.00	100	100	UG/M3	
JW-SB/SG33-35E	1702057-04	GS	N	2	Benzene	6.00	9.00	9.00	UG/M3	
JW-SB/SG33-35E	1702057-04	GS	N	2	Chloroform	9.00	100	100	UG/M3	
JW-SB/SG33-35E	1702057-04	GS	N	2	Isopropanol	4.00	2.00	2.00 J	UG/M3	C11/TR
JW-SB/SG33-35E	1702057-04	GS	N	2	Methylene Chloride	6.00	4.00	4.00 J	UG/M3	TR

Detected Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JW-SB/SG33-35E	1702057-04	GS	N	2	Toluene	7.00	40.0	40.0	UG/M3	
JW-SB/SG33-35E	1702057-04	GS	N	2	Vinyl Chloride	5.00	4.00	4.00 J	UG/M3	TR
JW-SB/SG33-35E	1702057-04RE1	GS	N	128	cis-1,2-Dichloroethylene	1000	1100	1100	UG/M3	
JW-SB/SG33-35E	1702057-04RE1	GS	N	128	Tetrachloroethene (PCE)	1700	8600	8600	UG/M3	
JW-SB/SG33-35E	1702057-04RE1	GS	N	128	Trichloroethene (TCE)	1400	17000	17000	UG/M3	
JW-SB/SG34-05E	1702057-01	GS	N	2	1,1,1-Trichloroethane	10.0	10.0	10.0	UG/M3	
JW-SB/SG34-05E	1702057-01	GS	N	2	Benzene	7.00	4.00	4.00 J	UG/M3	TR
JW-SB/SG34-05E	1702057-01	GS	N	2	Toluene	8.00	10.0	10.0	UG/M3	
JW-SB/SG34-05E	1702057-01	GS	N	2	Trichloroethene (TCE)	10.0	60.0	60.0	UG/M3	
JW-SB/SG34-05E	1702057-01RE1	GS	N	2	Tetrachloroethene (PCE)	100	700	700	UG/M3	

Rejected Results

--No Records Found--

Facility:	Jervis-Webb Superfund Site
Event:	May 2017 New Wells Sampling
Guidance Document:	Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015
Contract Laboratory:	U.S. EPA, Region 9 Lab, Richmond, CA
Field Contractor:	Gilbane Company, Walnut Creek, CA
Data Review Contractor:	Gilbane
SDG:	1705055, Certified - 2/27/2018 by wtse
QC Level:	S2AVEM
Project Manager:	Don Gruber
Data Reviewer:	Thomas Beer
Data Reviewer Title:	Project Chemist
Date of Review Report:	February 27, 2018
Second Reviewer:	
Completion Date of Second Reviewer:	

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
E524.2/NONE	1	1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) 1705055. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Continuing Calibration Verification
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Equipment Blank
- Field Blank
- Field Duplicate
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 12 results (9.52%) out of the 126 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Re-sample of JWMW-06C-0517 on 5/22/2017 and sent to EPA R9 Lab for VOCs analysis by E524.2. Original CVOL vials collected on 5/3/2017 all broken in transit to CLP Lab.

Analytical Method	Comment
E524.2	Most calibration outliers resolved except for bromoform, chloromethane and dichloromethane in the site sample, qualified as estimated UJ for poor CCV/SCV recoveries (C11) and/or initial calibration RSD out (G2). Acetone was detected in the trip blank and the site sample result was raised to the RL and qualified UJ for the trip blank detection (K3). Trip blank was used for MS/MSD analysis. Some poor matrix recoveries (M) were qualified UJ.

J. Beer

Digitally signed by Tom Beer
DN: C=US, E=tbeer@gilbaneco.com, OU="", O="", CN=Tom Beer
Date: 2018.03.21 11:27:17-07'00'

Reviewed by Thomas Beer, Project Chemist

February 27, 2018

Qualified Results

Test Method: E524.2	Extraction Method: SW5030		Leach Method: NONE		Matrix: WQ			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWRL05-0617	TB	1,1,1,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	-	ug/L	M
JWRL05-0617	TB	2-Butanone (MEK)	4.0	4.0 U	4.0 UJ	-	ug/L	M
JWRL05-0617	TB	Bromochloromethane	0.50	0.50 U	0.50 UJ	-	ug/L	M
JWRL05-0617	TB	Bromodichloromethane	0.50	0.50 U	0.50 UJ	-	ug/L	M
JWRL05-0617	TB	Bromoform	0.50	0.50 U	0.50 UJ	-	ug/L	M
JWRL05-0617	TB	Chloromethane	0.50	0.50 U	0.50 UJ	-	ug/L	C11
JWRL05-0617	TB	Dibromochloromethane	0.50	0.50 U	0.50 UJ	-	ug/L	M
JWRL05-0617	TB	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	-	ug/L	C11

Test Method: E524.2	Extraction Method: SW5030		Leach Method: NONE		Matrix: WG			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-06C-0617	N	Acetone	4.0	3.3	4.0 UJ		ug/L	K3
JWMW-06C-0617	N	Bromoform	0.50	0.50 U	0.50 UJ	-	ug/L	G2/C11
JWMW-06C-0617	N	Chloromethane	0.50	0.50 U	0.50 UJ	-	ug/L	C11
JWMW-06C-0617	N	cis-1,2-Dichloroethylene	0.50	0.30	0.30 J		ug/L	TR
JWMW-06C-0617	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	-	ug/L	C11

Reason Code Definitions

Code	Definition
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
K3	Detected in the associated trip blank.
M	Matrix spike recovery was outside established criteria.
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for 1705055
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: E524.2 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	S17E132-SCV1	NA	1/1	5/22/2017 08:12	5/22/2017 08:12	5/24/2017 19:08	NA/	CV
LABQC	WQ	LABQC	B17E166-BS1	NA	1/1	5/26/2017 06:12	5/26/2017 06:12	5/26/2017 08:05	NA/	BS
LABQC	WQ	LABQC	S17E161-CCV1	NA	1/1	5/26/2017 06:53	5/26/2017 06:53	5/26/2017 08:05	NA/	CV
LABQC	WQ	LABQC	B17E166-BLK1	NA	1/1	5/26/2017 06:12	5/26/2017 06:12	5/26/2017 09:18	NA/	LB
FIELDQC	WQ	JWRL05-0617	1705055-01	NA	1/1	5/22/2017 08:00	5/26/2017 09:12	5/26/2017 10:31	NA/	TB
JWMW-06C	WG	JWMW-06C-0617	1705055-02	NA	1/1	5/22/2017 11:08	5/26/2017 09:12	5/26/2017 11:08	NA/	N
FIELDQC	WQ	JWRL05-0617	B17E166-MS1	NA	1/1	5/22/2017 08:00	5/26/2017 09:12	5/26/2017 11:44	NA/	MS
FIELDQC	WQ	JWRL05-0617	B17E166-MSD1	NA	1/1	5/22/2017 08:00	5/26/2017 09:12	5/26/2017 12:21	NA/	SD

Field Batch Report

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
	22051701		FIELDQC	WQ	JWRL05-0617	1705055-01	5/22/2017 08:00	TB
	22051701		JWMW-06C	WG	JWMW-06C-0617	1705055-02	5/22/2017 11:08	N

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Continuing Calibration Verification	S17E132-SCV1 (CV) / S17E132-SCV1	1 / 1.00	1,2,4-Trimethylbenzene	12.65 (percent)	J/R	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E132-SCV1 (CV) / S17E132-SCV1	1 / 1.00	2-Butanone (MEK)	762.0 (percent)	J/UJ	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E132-SCV1 (CV) / S17E132-SCV1	1 / 1.00	2-Chlorotoluene	25.40 (percent)	J/UJ	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E132-SCV1 (CV) / S17E132-SCV1	1 / 1.00	Acetone	766.0 (percent)	J/UJ	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E132-SCV1 (CV) / S17E132-SCV1	1 / 1.00	Bromobenzene	12.25 (percent)	J/R	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E132-SCV1 (CV) / S17E132-SCV1	1 / 1.00	Bromochloromethane	49.20 (percent)	J/UJ	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E132-SCV1 (CV) / S17E132-SCV1	1 / 1.00	Chloromethane	75.20 (percent)	J/UJ	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E132-SCV1 (CV) / S17E132-SCV1	1 / 1.00	Dichlorodifluoromethane	73.20 (percent)	J/UJ	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E132-SCV1 (CV) / S17E132-SCV1	1 / 1.00	m,p-Xylene	206.0 (percent)	J/UJ	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E132-SCV1 (CV) / S17E132-SCV1	1 / 1.00	tert-Butyl Methyl Ether (MTBE)	410.0 (percent)	J/UJ	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E161-CCV1 (CV) / S17E161-CCV1	1 / 1.00	1,2-Dichloropropane	23.45 (percent)	J/UJ	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E161-CCV1 (CV) / S17E161-CCV1	1 / 1.00	1,3-Dichloropropane	11.88 (percent)	J/R	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E161-CCV1 (CV) / S17E161-CCV1	1 / 1.00	2-Butanone (MEK)	658.0 (percent)	J/UJ	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E161-CCV1 (CV) / S17E161-CCV1	1 / 1.00	Bromoform	70.60 (percent)	J/UJ	80 - 120	20 - 130	C11			
Continuing Calibration Verification	S17E161-CCV1 (CV) / S17E161-CCV1	1 / 1.00	tert-Butyl Methyl Ether (MTBE)	382.0 (percent)	J/UJ	80 - 120	20 - 130	C11			
MS Recovery	JWRL05-0617 (MS) / B17E166-MS1	1 / 1.00	1,1,1,2-Tetrachloroethane	73.60 (percent)	J/UJ	75 - 130	20 - 140	M			
MS Recovery	JWRL05-0617 (MS) / B17E166-MS1	1 / 1.00	1,2-Dibromo-3-chloropropane	72.00 (percent)	J/UJ	75 - 130	20 - 140	M			

QC Outlier Report

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
MS Recovery	JWRL05-0617 (MS) / B17E166-MS1	1 / 1.00	2-Butanone (MEK)	74.00 (percent)	J/UJ	75 - 130	20 - 140	M			
MS Recovery	JWRL05-0617 (MS) / B17E166-MS1	1 / 1.00	Bromoform	53.80 (percent)	J/UJ	75 - 130	20 - 140	M			
MS Recovery	JWRL05-0617 (MS) / B17E166-MS1	1 / 1.00	Carbon Tetrachloride	69.60 (percent)	J/UJ	75 - 130	20 - 140	M			
MS Recovery	JWRL05-0617 (MS) / B17E166-MS1	1 / 1.00	Dibromochloromethane	66.00 (percent)	J/UJ	75 - 130	20 - 140	M			
MS Recovery	JWRL05-0617 (SD) / B17E166-MSD1	1 / 1.00	1,1,1,2-Tetrachloroethane	74.60 (percent)	J/UJ	75 - 130	20 - 140	M			
MS Recovery	JWRL05-0617 (SD) / B17E166-MSD1	1 / 1.00	1,2-Dibromo-3-chloropropane	74.00 (percent)	J/UJ	75 - 130	20 - 140	M			
MS Recovery	JWRL05-0617 (SD) / B17E166-MSD1	1 / 1.00	2-Butanone (MEK)	74.25 (percent)	J/UJ	75 - 130	20 - 140	M			
MS Recovery	JWRL05-0617 (SD) / B17E166-MSD1	1 / 1.00	Bromoform	55.80 (percent)	J/UJ	75 - 130	20 - 140	M			
MS Recovery	JWRL05-0617 (SD) / B17E166-MSD1	1 / 1.00	Carbon Tetrachloride	73.60 (percent)	J/UJ	75 - 130	20 - 140	M			
MS Recovery	JWRL05-0617 (SD) / B17E166-MSD1	1 / 1.00	Dibromochloromethane	69.00 (percent)	J/UJ	75 - 130	20 - 140	M			
Trip Blank	JWRL05-0617 (TB) / 1705055-01	1 / 1.00	Acetone	5.900 (ug/l)	*U/None	< 2	< 4	K3		2	11.8

Rule is the multiplier used when blank contamination occurs to determine action level.

Qualified Results

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-06C-0617	1705055-02	WG	N	Acetone	4.00	3.30	4.00 UJ		ug/L	K3
JWMW-06C-0617	1705055-02	WG	N	Bromoform	0.500	0.500 U	0.500 UJ	-	ug/L	G2/C11
JWMW-06C-0617	1705055-02	WG	N	Chloromethane	0.500	0.500 U	0.500 UJ	-	ug/L	C11
JWMW-06C-0617	1705055-02	WG	N	cis-1,2-Dichloroethylene	0.500	0.300	0.300 J		ug/L	TR
JWMW-06C-0617	1705055-02	WG	N	Dichlorodifluoromethane	0.500	0.500 U	0.500 UJ	-	ug/L	C11
JWRL05-0617	1705055-01	WQ	TB	1,1,1,2-Tetrachloroethane	0.500	0.500 U	0.500 UJ	-	ug/L	M
JWRL05-0617	1705055-01	WQ	TB	2-Butanone (MEK)	4.00	4.00 U	4.00 UJ	-	ug/L	M
JWRL05-0617	1705055-01	WQ	TB	Bromochloromethane	0.500	0.500 U	0.500 UJ	-	ug/L	M
JWRL05-0617	1705055-01	WQ	TB	Bromodichloromethane	0.500	0.500 U	0.500 UJ	-	ug/L	M
JWRL05-0617	1705055-01	WQ	TB	Bromoform	0.500	0.500 U	0.500 UJ	-	ug/L	M
JWRL05-0617	1705055-01	WQ	TB	Chloromethane	0.500	0.500 U	0.500 UJ	-	ug/L	C11
JWRL05-0617	1705055-01	WQ	TB	Dibromochloromethane	0.500	0.500 U	0.500 UJ	-	ug/L	M
JWRL05-0617	1705055-01	WQ	TB	Dichlorodifluoromethane	0.500	0.500 U	0.500 UJ	-	ug/L	C11

Detected Results

Test Method: E524.2 Extraction Method: SW5030 Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-06C-0617	1705055-02	WG	N	1	1,2-Dichloroethane	0.500	4.70	4.70	ug/L	
JWMW-06C-0617	1705055-02	WG	N	1	cis-1,2-Dichloroethylene	0.500	0.300	0.300 J	ug/L	TR
JWRL05-0617	1705055-01	WQ	TB	1	Acetone	4.00	5.90	5.90	ug/L	

Rejected Results

--No Records Found--

Facility:	Jervis-Webb Superfund Site
Event:	September 2017 Indoor Air Sampling
Guidance Document:	Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015
Contract Laboratory:	U.S. EPA, Region 9 Lab, Richmond, CA
Field Contractor:	Gilbane Company, Walnut Creek, CA
Data Review Contractor:	Gilbane Federal
SDG:	1709024, Certified - 2/27/2018 by wtse
QC Level:	S2BVEM
Project Manager:	Don Gruber
Data Reviewer:	Thomas Beer
Data Reviewer Title:	Project Chemist
Date of Review Report:	December 06, 2017
Second Reviewer:	
Completion Date of Second Reviewer:	

Analytical Method/ Leach Method	Normal Air Samples	Field QC Air Samples
TO15SIM/NONE	13	

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) 1709024. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

Blank
Blank - Negative
Continuing Calibration Verification
Lab Replicate RPD
LCS Recovery
Prep Hold Time
Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

Ambient Blank
Calibration Blank
Calibration Blank - Negative
Equipment Blank
Field Blank
Field Duplicate
Initial Calibration Verification
Material Blank
MS Recovery
MS RPD
Negative Blank
Surrogate
Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 13 results (5.88%) out of the 221 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked COCs as received, lab case narrative, and EPA R9 Lab Level 4 lab report.

Analytical Method	Comment
TO15	Calibration outliers were noted for non-target analytes. Only low calibration verification require qualifiers for non-detects (i.e., UJ C11). Detected analytes were qualified estimated (J) with appropriate bias (+/-).

J. Beer

Digitally signed by Tom Beer
DN: C=US, E=tbeer@gilbaneco.com, OU="", O="", CN=Tom Beer
Date: 2018.08.27 17:03:03-07'00'

December 06, 2017

Reviewed by Thomas Beer, Project Chemist

Qualified Results

Test Method: TO15SIM	Extraction Method: NONE		Leach Method: NONE		Matrix: AA			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
5030 FIRE-OA01-0917	N	Naphthalene	0.52	0.32	0.32 J		UG/M3	TR/C11/L
9301 RAYO-OA01-0917	N	1,2-Dichloroethane	0.51	0.35	0.35 J		UG/M3	TR
9301 RAYO-OA01-0917	N	Naphthalene	0.66	1.0	1.0 J		UG/M3	C11/L

Test Method: TO15SIM	Extraction Method: NONE		Leach Method: NONE		Matrix: AI			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
5030 FIRE-IA01-0917	N	Naphthalene	0.52	0.64	0.64 J		UG/M3	C11/L
5030 FIRE-IA02-0917	N	Naphthalene	0.64	1.9	1.9 J		UG/M3	C11/L
5030 FIRE-IA03-0917	N	1,1,1-Trichloroethane	0.55	0.30	0.30 J		UG/M3	TR
5030 FIRE-IA03-0917	N	Naphthalene	0.52	0.81	0.81 J		UG/M3	C11/L
5030 FIRE-IA04-0917	N	1,1-Dichloroethene	0.20	0.12	0.12 J		UG/M3	TR
5030 FIRE-IA04-0917	N	Naphthalene	0.26	0.52	0.52 J	+	UG/M3	C11
5030 FIRE-IA04-0917	N	Tetrachloroethene (PCE)	0.34	0.25	0.25 J		UG/M3	TR
9001 RAYO-IA01-0917	N	Tetrachloroethene (PCE)	0.34	0.24	0.24 J		UG/M3	TR
9001 RAYO-IA01-0917	N	Naphthalene	3.1	3.5	3.5 J		UG/M3	C11/L
9001 RAYO-IA02-0917	N	Naphthalene	0.52	3.8	3.8 J		UG/M3	C11/L
9001 RAYO-IA03-0917	N	Naphthalene	3.1	3.0	3.0 J		UG/M3	TR/C11/L
9301 RAYO-IA01-0917	N	Naphthalene	0.52	0.64	0.64 J		UG/M3	C11/L
9301 RAYO-IA02-0917	N	Naphthalene	0.52	0.91	0.91 J		UG/M3	C11/L
9301 RAYO-IA03-0917	N	Naphthalene	0.52	1.3	1.3 J		UG/M3	C11/L
9301 RAYO-IA04-0917	N	Naphthalene	0.52	2.7	2.7 J		UG/M3	C11/L

Reason Code Definitions

Code	Definition
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
L	Percent recovery of laboratory control sample recovery was outside established limits
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for 1709024
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: TO15SIM Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	AQ	LABQC	S17I051-SCV1	NA	1/1	9/14/2017 20:05		9/14/2017 20:05	/	CV
LABQC	AQ	LABQC	S17I051-SCV2	NA	1/1	9/14/2017 20:55		9/14/2017 20:55	/	CV
LABQC	AQ	LABQC	B17I056-BS2	NA	1/1	9/15/2017 16:06		9/15/2017 16:06	/	BS
LABQC	AQ	LABQC	S17I070-CCV2	NA	1/1	9/15/2017 16:06		9/15/2017 16:06	/	CV
LABQC	AQ	LABQC	B17I056-BS1	NA	1/1	9/15/2017 17:44		9/15/2017 17:44	/	BS
LABQC	AQ	LABQC	S17I070-CCV1	NA	1/1	9/15/2017 17:44		9/15/2017 17:44	/	CV
LABQC	AQ	LABQC	B17I056-BLK1	NA	1/1	9/15/2017 19:25		9/15/2017 19:25	/	LB
9001 RAYO AVE	AI	9001 RAYO-IA01-0917	1709024-01	NA	1/1.5	9/9/2017 15:03		9/15/2017 21:12	/	N
5030 FIRE BLVD	AI	5030 FIRE-IA04-0917	1709024-08	NA	1/1.5	9/9/2017 15:26		9/16/2017 05:47	/	N
LABQC	AQ	LABQC	S17I075-SCV1	NA	1/1	9/20/2017 05:10		9/20/2017 05:10	/	CV
LABQC	AQ	LABQC	S17I075-SCV2	NA	1/1	9/20/2017 06:53		9/20/2017 06:53	/	CV
LABQC	AQ	LABQC	B17I079-BS2	NA	1/1	9/20/2017 10:43		9/20/2017 10:43	/	BS
LABQC	AQ	LABQC	S17I080-CCV2	NA	1/1	9/20/2017 10:43		9/20/2017 10:43	/	CV
LABQC	AQ	LABQC	B17I079-BS1	NA	1/1	9/20/2017 15:55		9/20/2017 15:55	/	BS
LABQC	AQ	LABQC	S17I080-CCV1	NA	1/1	9/20/2017 15:55		9/20/2017 15:55	/	CV
LABQC	AQ	LABQC	B17I079-BLK1	NA	1/1	9/20/2017 16:52		9/20/2017 16:52	/	LB
9001 RAYO AVE	AI	9001 RAYO-IA01-0917	1709024-01RE1	NA	1/1.5	9/9/2017 15:03		9/20/2017 19:31	/	N
9001 RAYO AVE	AI	9001 RAYO-IA02-0917	1709024-02RE1	NA	1/1.5	9/9/2017 15:05		9/20/2017 20:20	/	N
9001 RAYO AVE	AI	9001 RAYO-IA03-0917	1709024-03RE1	NA	1/1.5	9/9/2017 15:06		9/20/2017 21:09	/	N
9301 RAYO AVE	AI	9301 RAYO-IA04-0917	1709024-12RE1	NA	1/1.5	9/10/2017 14:05		9/20/2017 23:36	/	N
5030 FIRE BLVD	AA	5030 FIRE-OA01-0917	1709024-04RE1	NA	1/1.5	9/9/2017 15:22		9/21/2017 02:13	/	N
5030 FIRE BLVD	AI	5030 FIRE-IA01-0917	1709024-05RE1	NA	1/1.5	9/9/2017 15:28		9/21/2017 03:03	/	N
5030 FIRE BLVD	AI	5030 FIRE-IA03-0917	1709024-07RE1	NA	1/1.5	9/9/2017 15:31		9/21/2017 03:53	/	N
9301 RAYO AVE	AI	9301 RAYO-IA01-0917	1709024-09RE1	NA	1/1.5	9/10/2017 14:00		9/21/2017 04:44	/	N
9301 RAYO AVE	AI	9301 RAYO-IA02-0917	1709024-10RE1	NA	1/1.5	9/10/2017 14:03		9/21/2017 05:34	/	N
9301 RAYO AVE	AI	9301 RAYO-IA03-0917	1709024-11RE1	NA	1/1.5	9/10/2017 14:07		9/21/2017 06:25	/	N

Automated Data Review Detail Report for 1709024
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: TO15SIM Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
9301 RAYO AVE	AI	9301 RAYO-IA03-0917	B17I079-DUP1	NA	1/1.5	9/10/2017 14:07		9/21/2017 07:17	/	LR
LABQC	AQ	LABQC	B17I096-BS1	NA	1/1	9/21/2017 12:20		9/21/2017 12:20	/	BS
LABQC	AQ	LABQC	S17I089-CCV1	NA	1/1	9/21/2017 12:20		9/21/2017 12:20	/	CV
LABQC	AQ	LABQC	B17I096-BS2	NA	1/1	9/21/2017 13:59		9/21/2017 13:59	/	BS
LABQC	AQ	LABQC	S17I089-CCV2	NA	1/1	9/21/2017 13:59		9/21/2017 13:59	/	CV
LABQC	AQ	LABQC	B17I096-BLK1	NA	1/1	9/21/2017 17:30		9/21/2017 17:30	/	LB
9001 RAYO AVE	AI	9001 RAYO-IA01-0917	1709024-01RE2	NA	1/3	9/9/2017 15:03		9/21/2017 18:18	/	N
9001 RAYO AVE	AI	9001 RAYO-IA02-0917	1709024-02RE2	NA	1/3	9/9/2017 15:05		9/21/2017 19:06	/	N
9001 RAYO AVE	AI	9001 RAYO-IA03-0917	1709024-03RE2	NA	1/3	9/9/2017 15:06		9/21/2017 19:54	/	N
5030 FIRE BLVD	AI	5030 FIRE-IA02-0917	1709024-06RE2	NA	1/3.69	9/9/2017 15:30		9/21/2017 20:41	/	N
5030 FIRE BLVD	AI	5030 FIRE-IA04-0917	1709024-08RE2	NA	1/3	9/9/2017 15:26		9/21/2017 21:29	/	N
9301 RAYO AVE	AA	9301 RAYO-OA01-0917	1709024-13RE2	NA	1/3.77	9/10/2017 12:48		9/21/2017 22:17	/	N
5030 FIRE BLVD	AA	5030 FIRE-OA01-0917	1709024-04RE2	NA	1/3	9/9/2017 15:22		9/22/2017 00:09	/	N
5030 FIRE BLVD	AI	5030 FIRE-IA01-0917	1709024-05RE2	NA	1/3	9/9/2017 15:28		9/22/2017 01:08	/	N
5030 FIRE BLVD	AI	5030 FIRE-IA03-0917	1709024-07RE2	NA	1/3	9/9/2017 15:31		9/22/2017 02:06	/	N
9301 RAYO AVE	AI	9301 RAYO-IA01-0917	1709024-09RE2	NA	1/3	9/10/2017 14:00		9/22/2017 03:04	/	N
9301 RAYO AVE	AI	9301 RAYO-IA02-0917	1709024-10RE2	NA	1/3	9/10/2017 14:03		9/22/2017 04:02	/	N
9301 RAYO AVE	AI	9301 RAYO-IA03-0917	1709024-11RE2	NA	1/3	9/10/2017 14:07		9/22/2017 05:00	/	N
9301 RAYO AVE	AI	9301 RAYO-IA04-0917	1709024-12RE2	NA	1/3	9/10/2017 14:05		9/22/2017 05:58	/	N
9001 RAYO AVE	AI	9001 RAYO-IA02-0917	1709024-02RE3	NA	1/3	9/9/2017 15:05		9/22/2017 07:50	/	N
9001 RAYO AVE	AI	9001 RAYO-IA03-0917	1709024-03RE3	NA	1/3	9/9/2017 15:06		9/22/2017 08:48	/	N
5030 FIRE BLVD	AI	5030 FIRE-IA02-0917	1709024-06RE3	NA	1/3.69	9/9/2017 15:30		9/22/2017 09:45	/	N
9301 RAYO AVE	AA	9301 RAYO-OA01-0917	1709024-13RE3	NA	1/3.77	9/10/2017 12:48		9/22/2017 10:43	/	N

Field Batch Report

--No Records Found--

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

Automated Data Review Detail Report for 1709024
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

QC Outlier Report

Test Method: TO15SIM Extraction Method: NONE Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Continuing Calibration Verification	S17I051-SCV1 (CV) / S17I051-SCV1	1 / 1.00	1,2-Dibromoethane (EDB)	159.3 (percent)	J/UJ	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17I051-SCV2 (CV) / S17I051-SCV2	1 / 1.00	Naphthalene	148.4 (percent)	J/UJ	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17I075-SCV1 (CV) / S17I075-SCV1	1 / 1.00	1,2-Dibromoethane (EDB)	153.8 (percent)	J/UJ	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17I075-SCV2 (CV) / S17I075-SCV2	1 / 1.00	Naphthalene	383.6 (percent)	J/UJ	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17I080-CCV2 (CV) / S17I080-CCV2	1 / 1.00	Naphthalene	56.80 (percent)	J/UJ	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17I089-CCV2 (CV) / S17I089-CCV2	1 / 1.00	Naphthalene	374.8 (percent)	J/UJ	70 - 130	50 - 140	C11			
LCS Recovery	B17I079-BS2 (BS) / B17I079-BS2	1 / 1.00	Naphthalene	56.72 (percent)	J/UJ	70 - 130	20 - 150	L			
LCS Recovery	B17I096-BS2 (BS) / B17I096-BS2	1 / 1.00	Naphthalene	374.8 (percent)	J/None	70 - 130	20 - 150	L			

Rule is the multiplier used when blank contamination occurs to determine action level.

Automated Data Review Detail Report for 1709024
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Qualified Results

Test Method: TO15SIM Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
5030 FIRE-IA01-0917	1709024-05RE2	AI	N	Naphthalene	0.520	0.640	0.640 J		UG/M3	C11/L
5030 FIRE-IA02-0917	1709024-06RE3	AI	N	Naphthalene	0.640	1.90	1.90 J		UG/M3	C11/L
5030 FIRE-IA03-0917	1709024-07RE2	AI	N	1,1,1-Trichloroethane	0.550	0.300	0.300 J		UG/M3	TR
5030 FIRE-IA03-0917	1709024-07RE2	AI	N	Naphthalene	0.520	0.810	0.810 J		UG/M3	C11/L
5030 FIRE-IA04-0917	1709024-08	AI	N	1,1-Dichloroethene	0.200	0.120	0.120 J		UG/M3	TR
5030 FIRE-IA04-0917	1709024-08	AI	N	Naphthalene	0.260	0.520	0.520 J	+	UG/M3	C11
5030 FIRE-IA04-0917	1709024-08	AI	N	Tetrachloroethene (PCE)	0.340	0.250	0.250 J		UG/M3	TR
5030 FIRE-OA01-0917	1709024-04RE2	AA	N	Naphthalene	0.520	0.320	0.320 J		UG/M3	TR/C11/L
9001 RAYO-IA01-0917	1709024-01	AI	N	Tetrachloroethene (PCE)	0.340	0.240	0.240 J		UG/M3	TR
9001 RAYO-IA01-0917	1709024-01RE1	AI	N	Naphthalene	3.10	3.50	3.50 J		UG/M3	C11/L
9001 RAYO-IA02-0917	1709024-02RE3	AI	N	Naphthalene	0.520	3.80	3.80 J		UG/M3	C11/L
9001 RAYO-IA03-0917	1709024-03RE1	AI	N	Naphthalene	3.10	3.00	3.00 J		UG/M3	TR/C11/L
9301 RAYO-IA01-0917	1709024-09RE2	AI	N	Naphthalene	0.520	0.640	0.640 J		UG/M3	C11/L
9301 RAYO-IA02-0917	1709024-10RE2	AI	N	Naphthalene	0.520	0.910	0.910 J		UG/M3	C11/L
9301 RAYO-IA03-0917	1709024-11RE2	AI	N	Naphthalene	0.520	1.30	1.30 J		UG/M3	C11/L
9301 RAYO-IA04-0917	1709024-12RE2	AI	N	Naphthalene	0.520	2.70	2.70 J		UG/M3	C11/L
9301 RAYO-OA01-0917	1709024-13RE3	AA	N	1,2-Dichloroethane	0.510	0.350	0.350 J		UG/M3	TR
9301 RAYO-OA01-0917	1709024-13RE3	AA	N	Naphthalene	0.660	1.00	1.00 J		UG/M3	C11/L

Detected Results

Test Method: TO15SIM Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
5030 FIRE-IA01-0917	1709024-05RE1	AI	N	2	Toluene	1.10	5.70	5.70	UG/M3	
5030 FIRE-IA01-0917	1709024-05RE2	AI	N	3	Benzene	0.320	1.50	1.50	UG/M3	
5030 FIRE-IA01-0917	1709024-05RE2	AI	N	3	Ethylbenzene	0.430	0.550	0.550	UG/M3	
5030 FIRE-IA01-0917	1709024-05RE2	AI	N	3	m,p-Xylene	0.870	1.50	1.50	UG/M3	
5030 FIRE-IA01-0917	1709024-05RE2	AI	N	3	Naphthalene	0.520	0.640	0.640 J	UG/M3	C11/L
5030 FIRE-IA01-0917	1709024-05RE2	AI	N	3	o-Xylene	0.430	0.700	0.700	UG/M3	
5030 FIRE-IA02-0917	1709024-06RE2	AI	N	4	Toluene	5.60	32.0	32.0	UG/M3	
5030 FIRE-IA02-0917	1709024-06RE3	AI	N	4	Benzene	0.390	0.980	0.980	UG/M3	
5030 FIRE-IA02-0917	1709024-06RE3	AI	N	4	Ethylbenzene	0.530	1.20	1.20	UG/M3	
5030 FIRE-IA02-0917	1709024-06RE3	AI	N	4	m,p-Xylene	1.10	2.80	2.80	UG/M3	
5030 FIRE-IA02-0917	1709024-06RE3	AI	N	4	Naphthalene	0.640	1.90	1.90 J	UG/M3	C11/L
5030 FIRE-IA02-0917	1709024-06RE3	AI	N	4	o-Xylene	0.530	1.20	1.20	UG/M3	
5030 FIRE-IA03-0917	1709024-07RE1	AI	N	2	Toluene	2.30	24.0	24.0	UG/M3	
5030 FIRE-IA03-0917	1709024-07RE2	AI	N	3	1,1,1-Trichloroethane	0.550	0.300	0.300 J	UG/M3	TR
5030 FIRE-IA03-0917	1709024-07RE2	AI	N	3	Benzene	0.320	0.940	0.940	UG/M3	
5030 FIRE-IA03-0917	1709024-07RE2	AI	N	3	Ethylbenzene	0.430	0.780	0.780	UG/M3	
5030 FIRE-IA03-0917	1709024-07RE2	AI	N	3	m,p-Xylene	0.870	2.00	2.00	UG/M3	
5030 FIRE-IA03-0917	1709024-07RE2	AI	N	3	Naphthalene	0.520	0.810	0.810 J	UG/M3	C11/L
5030 FIRE-IA03-0917	1709024-07RE2	AI	N	3	o-Xylene	0.430	0.870	0.870	UG/M3	
5030 FIRE-IA04-0917	1709024-08	AI	N	2	1,1,1-Trichloroethane	0.270	1.80	1.80	UG/M3	
5030 FIRE-IA04-0917	1709024-08	AI	N	2	1,1-Dichloroethene	0.200	0.120	0.120 J	UG/M3	TR
5030 FIRE-IA04-0917	1709024-08	AI	N	2	Benzene	0.160	0.560	0.560	UG/M3	
5030 FIRE-IA04-0917	1709024-08	AI	N	2	Ethylbenzene	0.220	1.40	1.40	UG/M3	
5030 FIRE-IA04-0917	1709024-08	AI	N	2	m,p-Xylene	0.430	3.30	3.30	UG/M3	
5030 FIRE-IA04-0917	1709024-08	AI	N	2	Naphthalene	0.260	0.520	0.520 J	UG/M3	C11
5030 FIRE-IA04-0917	1709024-08	AI	N	2	o-Xylene	0.220	1.40	1.40	UG/M3	
5030 FIRE-IA04-0917	1709024-08	AI	N	2	Tetrachloroethene (PCE)	0.340	0.250	0.250 J	UG/M3	TR

Detected Results

Test Method: TO15SIM Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
5030 FIRE-IA04-0917	1709024-08RE2	AI	N	3	Toluene	4.50	32.0	32.0	UG/M3	
5030 FIRE-IA04-0917	1709024-08RE2	AI	N	3	trans-1,2-Dichloroethene	4.80	9.60	9.60	UG/M3	
5030 FIRE-OA01-0917	1709024-04RE1	AA	N	2	Toluene	2.30	11.0	11.0	UG/M3	
5030 FIRE-OA01-0917	1709024-04RE2	AA	N	3	Benzene	0.320	0.860	0.860	UG/M3	
5030 FIRE-OA01-0917	1709024-04RE2	AA	N	3	Ethylbenzene	0.430	0.530	0.530	UG/M3	
5030 FIRE-OA01-0917	1709024-04RE2	AA	N	3	m,p-Xylene	0.870	1.40	1.40	UG/M3	
5030 FIRE-OA01-0917	1709024-04RE2	AA	N	3	Naphthalene	0.520	0.320	0.320 J	UG/M3	TR/C11/L
5030 FIRE-OA01-0917	1709024-04RE2	AA	N	3	o-Xylene	0.430	0.570	0.570	UG/M3	
9001 RAYO-IA01-0917	1709024-01	AI	N	2	Tetrachloroethene (PCE)	0.340	0.240	0.240 J	UG/M3	TR
9001 RAYO-IA01-0917	1709024-01RE1	AI	N	2	Benzene	1.90	7.90	7.90	UG/M3	
9001 RAYO-IA01-0917	1709024-01RE1	AI	N	2	Ethylbenzene	2.60	5.10	5.10	UG/M3	
9001 RAYO-IA01-0917	1709024-01RE1	AI	N	2	m,p-Xylene	5.20	19.0	19.0	UG/M3	
9001 RAYO-IA01-0917	1709024-01RE1	AI	N	2	Naphthalene	3.10	3.50	3.50 J	UG/M3	C11/L
9001 RAYO-IA01-0917	1709024-01RE1	AI	N	2	o-Xylene	2.60	7.30	7.30	UG/M3	
9001 RAYO-IA01-0917	1709024-01RE2	AI	N	3	Toluene	4.50	25.0	25.0	UG/M3	
9001 RAYO-IA02-0917	1709024-02RE1	AI	N	2	Benzene	1.90	7.80	7.80	UG/M3	
9001 RAYO-IA02-0917	1709024-02RE1	AI	N	2	Ethylbenzene	2.60	5.40	5.40	UG/M3	
9001 RAYO-IA02-0917	1709024-02RE1	AI	N	2	m,p-Xylene	5.20	21.0	21.0	UG/M3	
9001 RAYO-IA02-0917	1709024-02RE1	AI	N	2	o-Xylene	2.60	7.50	7.50	UG/M3	
9001 RAYO-IA02-0917	1709024-02RE2	AI	N	3	Toluene	4.50	25.0	25.0	UG/M3	
9001 RAYO-IA02-0917	1709024-02RE3	AI	N	3	Naphthalene	0.520	3.80	3.80 J	UG/M3	C11/L
9001 RAYO-IA03-0917	1709024-03RE1	AI	N	2	Benzene	1.90	6.70	6.70	UG/M3	
9001 RAYO-IA03-0917	1709024-03RE1	AI	N	2	m,p-Xylene	5.20	18.0	18.0	UG/M3	
9001 RAYO-IA03-0917	1709024-03RE1	AI	N	2	Naphthalene	3.10	3.00	3.00 J	UG/M3	TR/C11/L
9001 RAYO-IA03-0917	1709024-03RE1	AI	N	2	o-Xylene	2.60	6.60	6.60	UG/M3	
9001 RAYO-IA03-0917	1709024-03RE2	AI	N	3	Toluene	4.50	32.0	32.0	UG/M3	
9001 RAYO-IA03-0917	1709024-03RE3	AI	N	3	Ethylbenzene	0.430	4.70	4.70	UG/M3	

Detected Results

Test Method: TO15SIM Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
9301 RAYO-IA01-0917	1709024-09RE1	AI	N	2	Toluene	2.30	12.0	12.0	UG/M3	
9301 RAYO-IA01-0917	1709024-09RE2	AI	N	3	1,1,1-Trichloroethane	0.550	4.40	4.40	UG/M3	
9301 RAYO-IA01-0917	1709024-09RE2	AI	N	3	1,2-Dichloroethane	0.400	0.460	0.460	UG/M3	
9301 RAYO-IA01-0917	1709024-09RE2	AI	N	3	Benzene	0.320	1.40	1.40	UG/M3	
9301 RAYO-IA01-0917	1709024-09RE2	AI	N	3	Ethylbenzene	0.430	2.30	2.30	UG/M3	
9301 RAYO-IA01-0917	1709024-09RE2	AI	N	3	m,p-Xylene	0.870	7.40	7.40	UG/M3	
9301 RAYO-IA01-0917	1709024-09RE2	AI	N	3	Naphthalene	0.520	0.640	0.640 J	UG/M3	C11/L
9301 RAYO-IA01-0917	1709024-09RE2	AI	N	3	o-Xylene	0.430	2.50	2.50	UG/M3	
9301 RAYO-IA02-0917	1709024-10RE1	AI	N	2	Toluene	2.30	11.0	11.0	UG/M3	
9301 RAYO-IA02-0917	1709024-10RE2	AI	N	3	1,1,1-Trichloroethane	0.550	4.10	4.10	UG/M3	
9301 RAYO-IA02-0917	1709024-10RE2	AI	N	3	1,2-Dichloroethane	0.400	0.450	0.450	UG/M3	
9301 RAYO-IA02-0917	1709024-10RE2	AI	N	3	Benzene	0.320	1.40	1.40	UG/M3	
9301 RAYO-IA02-0917	1709024-10RE2	AI	N	3	Ethylbenzene	0.430	2.30	2.30	UG/M3	
9301 RAYO-IA02-0917	1709024-10RE2	AI	N	3	m,p-Xylene	0.870	7.20	7.20	UG/M3	
9301 RAYO-IA02-0917	1709024-10RE2	AI	N	3	Naphthalene	0.520	0.910	0.910 J	UG/M3	C11/L
9301 RAYO-IA02-0917	1709024-10RE2	AI	N	3	o-Xylene	0.430	2.40	2.40	UG/M3	
9301 RAYO-IA03-0917	1709024-11RE1	AI	N	2	Toluene	1.10	4.90	4.90	UG/M3	
9301 RAYO-IA03-0917	1709024-11RE2	AI	N	3	Benzene	0.320	1.60	1.60	UG/M3	
9301 RAYO-IA03-0917	1709024-11RE2	AI	N	3	Ethylbenzene	0.430	0.820	0.820	UG/M3	
9301 RAYO-IA03-0917	1709024-11RE2	AI	N	3	m,p-Xylene	0.870	2.40	2.40	UG/M3	
9301 RAYO-IA03-0917	1709024-11RE2	AI	N	3	Naphthalene	0.520	1.30	1.30 J	UG/M3	C11/L
9301 RAYO-IA03-0917	1709024-11RE2	AI	N	3	o-Xylene	0.430	0.970	0.970	UG/M3	
9301 RAYO-IA04-0917	1709024-12RE1	AI	N	2	Toluene	2.30	25.0	25.0	UG/M3	
9301 RAYO-IA04-0917	1709024-12RE2	AI	N	3	Benzene	0.320	1.60	1.60	UG/M3	
9301 RAYO-IA04-0917	1709024-12RE2	AI	N	3	Ethylbenzene	0.430	1.80	1.80	UG/M3	
9301 RAYO-IA04-0917	1709024-12RE2	AI	N	3	m,p-Xylene	0.870	5.10	5.10	UG/M3	
9301 RAYO-IA04-0917	1709024-12RE2	AI	N	3	Naphthalene	0.520	2.70	2.70 J	UG/M3	C11/L

Automated Data Review Detail Report for 1709024
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Detected Results

Test Method: TO15SIM Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
9301 RAYO-IA04-0917	1709024-12RE2	AI	N	3	o-Xylene	0.430	1.90	1.90	UG/M3	
9301 RAYO-OA01-0917	1709024-13RE2	AA	N	4	Toluene	5.70	60.0	60.0	UG/M3	
9301 RAYO-OA01-0917	1709024-13RE3	AA	N	4	1,2-Dichloroethane	0.510	0.350	0.350 J	UG/M3	TR
9301 RAYO-OA01-0917	1709024-13RE3	AA	N	4	Benzene	0.400	1.60	1.60	UG/M3	
9301 RAYO-OA01-0917	1709024-13RE3	AA	N	4	Ethylbenzene	0.550	1.90	1.90	UG/M3	
9301 RAYO-OA01-0917	1709024-13RE3	AA	N	4	m,p-Xylene	1.10	3.90	3.90	UG/M3	
9301 RAYO-OA01-0917	1709024-13RE3	AA	N	4	Naphthalene	0.660	1.00	1.00 J	UG/M3	C11/L
9301 RAYO-OA01-0917	1709024-13RE3	AA	N	4	o-Xylene	0.550	1.70	1.70	UG/M3	

Rejected Results

--No Records Found--

Automated Data Review Detail Report for 1709024
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Review Questions

Method: TO15

Review Questions	Yes	No	NA	Comment
Stage 2 Review: COC - Custody Trail?	•			COCs 014452 and 014454 complete and signed.
Stage 2 Review: COC - Temperature/Condition?	•			Air samples received in boxes at ambient temperature, OK.
Stage 2 Review: COC - Receipt anomalies?	•			Six of 13 cans with "0" in. Hg as the Final pressure measurement in the field. Upon receipt, lab measured a range of -0.06 to -1.59 in. Hg vacuum for the same cans. No data qualification deemed necessary. Data usability is limited to assessment of VI pathway.
Stage 2 Review: COC - Sample/Methods checked?	•			TO-15 SIM list requested that includes 17 VOCs, including naphthalene.
Stage 2 Review: Case Narrative - Anomalies?	•			None noted. Full text only available by request. Sample receipt checklist has no data quality issues.
Stage 2 Review: Samples - Collection date?	•			Collected 9/9 and 9/10/2017.
Stage 2 Review: Samples - Extraction date?	•			Extracted 9/14/2017. Re-extractions on 9/21/2017
Stage 2 Review: Samples - Analysis date?	•			Analyzed 9/15 and 9/16/2017. Re-analyzed 9/21 and 9/22/2017.
Stage 2 Review: Samples - Holding time?	•			All samples collected after less than 30 days can storage. All samples analyzed within 30 days of sample collection.
Stage 2 Review: Samples - Batching?	•			Batches B17I056, B17I079, and B17I096
Stage 2 Review: Samples - Surrogate recoveries?	•			All surrogate %R within QC criteria per Lab Review Checklists.
Stage 2 Review: Samples - Lab qualifiers?	•			Naphthalene has lab qualifiers for trace detects (C1), calibration anomalies (C3, C4), LCS outliers (Q2), and quantitation limit standards out (Q3). A few other analytes also have trace detects (C1).
Stage 2 Review: Calibration - ICAL?	•			ICAL run 9/14/2017, all %RSD good.
Stage 2 Review: Calibration - ICV?	•			ICV SCV1 (TO15); SCV2 (Naphth) run 9/14/2017, all %RSD good. %R for EDB and naphthalene out high (1 out per SCV and RTs and areas all good; no quals).
Stage 2 Review: Calibration - CCV?	•			Batch B17I056 [Lab IDs: -08: m,p-xylene, naphthalene (J+/None)]; Batch B17I079 [Lab IDs: None: 1,2-DCA (J-/UJ), cis-1,2-DCE, 1,2-DCB; Lab IDs: -01, -03: naphthalene (J/None)]; Batch B17I096 [Lab IDs: -02, -04 to -07, -09 to -13: naphthalene (J/UJ)]; for calibration %D anomalies (C11).
Stage 2 Review: Blank - Method blank?	•			1 MB per batch. All NDs.
Stage 2 Review: Blank - Trip Field blank?			•	
Stage 2 Review: Precision/Accuracy - LCS/LCSD?	•			No LCSD. Naphthalene %R low in batch B17B17I079 (J- L; Lab IDs: -01, -03); LCS %R high in batch B17B17I096 (J+ L; Lab IDs: -02, -04 to -07, -09 to -13)
Stage 2 Review: Precision - Lab Duplicates RPD within limits?	•			One toluene reanalysis with RPD of 2, acceptable. No data precision issues apparent.
Stage 2 Review: Quantitation - PQLs?	•			Lab QLs versus PQLs acceptable.

Automated Data Review Detail Report for 1709024
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Review Questions

Method: TO15

Review Questions	Yes	No	NA	Comment
Stage 2 Review: Quantitation - Dilution Factor?	•			Dilutions applied to DLs and quantitation correctly.
Stage 2 Review: Quantitation - Results (i.e. correct analytes)?	•			Short list of 17 low DL VOCs by SIM confirmed.
Stage 2 Review: Field Duplicates - RPD within limits?	•			No FD collected due to re-assignment as a field sample. Precision only checked for one detected toluene lab duplicate pair.

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9SN9, Certified - 4/3/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9SN9

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.8/NONE	19	1

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9SN9. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 4 results (1.25%) out of the 320 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

A COC analysis request omission was noted but no data qualification are warranted.

Data qualifiers were added for minor serial dilution anomalies (A), lab duplicate imprecision (D1), and poor matrix spike recoveries (M).

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 11:25:39 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75176-CC	PB82104	NA	JW-SB/SG10	SO	JW-SB10-0.5	G1484-02	LB75176-S0	1/1	11-Mar-2015 12:40 PM	13-Mar-2015 12:00 PM	16-Mar-2015 2:00 PM	N
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-0.5	G1484-02	LB75176-S0	1/10	11-Mar-2015 12:40 PM	13-Mar-2015 12:00 PM	16-Mar-2015 2:08 PM	N
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-15	G1484-07	LB75176-S0	1/1	11-Mar-2015 1:15 PM	13-Mar-2015 12:00 PM	16-Mar-2015 4:04 PM	N
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-15	G1484-07	LB75176-S0	1/10	11-Mar-2015 1:15 PM	13-Mar-2015 12:00 PM	16-Mar-2015 4:12 PM	N
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-2	G1484-04	LB75176-S0	1/1	11-Mar-2015 1:00 PM	13-Mar-2015 12:00 PM	16-Mar-2015 3:02 PM	LR
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-2	G1484-04	LB75176-S0	1/10	11-Mar-2015 1:00 PM	13-Mar-2015 12:00 PM	16-Mar-2015 3:10 PM	LR
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-2	G1484-05	LB75176-S0	1/1	11-Mar-2015 1:00 PM	13-Mar-2015 12:00 PM	16-Mar-2015 3:33 PM	MS
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-2	G1484-05	LB75176-S0	1/10	11-Mar-2015 1:00 PM	13-Mar-2015 12:00 PM	16-Mar-2015 3:41 PM	MS
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-2	G1484-03	LB75176-S0	1/1	11-Mar-2015 1:00 PM	13-Mar-2015 12:00 PM	16-Mar-2015 2:16 PM	N
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-2	G1484-03	LB75176-S0	1/10	11-Mar-2015 1:00 PM	13-Mar-2015 12:00 PM	16-Mar-2015 2:23 PM	N
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-25	G1484-08	LB75176-S0	1/1	11-Mar-2015 1:20 PM	13-Mar-2015 12:00 PM	16-Mar-2015 4:49 PM	N
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-25	G1484-08	LB75176-S0	1/10	11-Mar-2015 1:20 PM	13-Mar-2015 12:00 PM	16-Mar-2015 4:57 PM	N
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-35	G1484-09	LB75176-S0	1/1	11-Mar-2015 1:40 PM	13-Mar-2015 12:00 PM	16-Mar-2015 5:05 PM	N
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-35	G1484-09	LB75176-S0	1/10	11-Mar-2015 1:40 PM	13-Mar-2015 12:00 PM	16-Mar-2015 5:13 PM	N
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-5	G1484-06	LB75176-S0	1/1	11-Mar-2015 1:05 PM	13-Mar-2015 12:00 PM	16-Mar-2015 3:49 PM	N
	PB82104	NA	JW-SB/SG10	SO	JW-SB10-5	G1484-06	LB75176-S0	1/10	11-Mar-2015 1:05 PM	13-Mar-2015 12:00 PM	16-Mar-2015 3:57 PM	N
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-0.5	G1484-10	LB75176-S0	1/1	10-Mar-2015 10:00 AM	13-Mar-2015 12:00 PM	16-Mar-2015 5:21 PM	N
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-0.5	G1484-10	LB75176-S0	1/10	10-Mar-2015 10:00 AM	13-Mar-2015 12:00 PM	16-Mar-2015 5:28 PM	N
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-0.6	G1484-11	LB75176-S0	1/1	10-Mar-2015 10:05 AM	13-Mar-2015 12:00 PM	16-Mar-2015 5:36 PM	FD
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-0.6	G1484-11	LB75176-S0	1/10	10-Mar-2015 10:05 AM	13-Mar-2015 12:00 PM	16-Mar-2015 5:44 PM	FD
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-15	G1484-14	LB75176-S0	1/1	10-Mar-2015 11:15 AM	13-Mar-2015 12:00 PM	16-Mar-2015 6:38 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75176-CC	PB82104	NA	JW-SB/SG16	SO	JW-SB16-15	G1484-14	LB75176-S0	1/10	10-Mar-2015 11:15 AM	13-Mar-2015 12:00 PM	16-Mar-2015 6:46 PM	N
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-2	G1484-12	LB75176-S0	1/1	10-Mar-2015 10:15 AM	13-Mar-2015 12:00 PM	16-Mar-2015 5:52 PM	N
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-2	G1484-12	LB75176-S0	1/10	10-Mar-2015 10:15 AM	13-Mar-2015 12:00 PM	16-Mar-2015 6:00 PM	N
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-25	G1484-15	LB75176-S0	1/1	10-Mar-2015 11:20 AM	13-Mar-2015 12:00 PM	16-Mar-2015 6:54 PM	N
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-25	G1484-15	LB75176-S0	1/10	10-Mar-2015 11:20 AM	13-Mar-2015 12:00 PM	16-Mar-2015 7:02 PM	N
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-35	G1484-16	LB75176-S0	1/1	10-Mar-2015 11:30 AM	13-Mar-2015 12:00 PM	16-Mar-2015 7:10 PM	N
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-35	G1484-16	LB75176-S0	1/10	10-Mar-2015 11:30 AM	13-Mar-2015 12:00 PM	16-Mar-2015 7:18 PM	N
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-5	G1484-13	LB75176-S0	1/1	10-Mar-2015 10:10 AM	13-Mar-2015 12:00 PM	16-Mar-2015 6:23 PM	N
	PB82104	NA	JW-SB/SG16	SO	JW-SB16-5	G1484-13	LB75176-S0	1/10	10-Mar-2015 10:10 AM	13-Mar-2015 12:00 PM	16-Mar-2015 6:31 PM	N
	PB82104	NA	JW-SB/SG17	SO	JW-SB17-0.5	G1484-17	LB75176-S0	1/1	11-Mar-2015 8:45 AM	13-Mar-2015 12:00 PM	16-Mar-2015 7:25 PM	N
	PB82104	NA	JW-SB/SG17	SO	JW-SB17-0.5	G1484-17	LB75176-S0	1/10	11-Mar-2015 8:45 AM	13-Mar-2015 12:00 PM	16-Mar-2015 7:33 PM	N
	PB82104	NA	JW-SB/SG17	SO	JW-SB17-15	G1484-19	LB75176-S0	1/1	11-Mar-2015 9:15 AM	13-Mar-2015 12:00 PM	16-Mar-2015 8:20 PM	N
	PB82104	NA	JW-SB/SG17	SO	JW-SB17-15	G1484-19	LB75176-S0	1/10	11-Mar-2015 9:15 AM	13-Mar-2015 12:00 PM	16-Mar-2015 8:28 PM	N
	PB82104	NA	JW-SB/SG17	SO	JW-SB17-2	G1484-18	LB75176-S0	1/1	11-Mar-2015 8:50 AM	13-Mar-2015 12:00 PM	16-Mar-2015 8:04 PM	N
	PB82104	NA	JW-SB/SG17	SO	JW-SB17-2	G1484-18	LB75176-S0	1/10	11-Mar-2015 8:50 AM	13-Mar-2015 12:00 PM	16-Mar-2015 8:12 PM	N
	PB82104	NA	JW-SB/SG17	SO	JW-SB17-25	G1484-20	LB75176-S0	1/1	11-Mar-2015 9:25 AM	13-Mar-2015 12:00 PM	16-Mar-2015 8:36 PM	N
	PB82104	NA	JW-SB/SG17	SO	JW-SB17-25	G1484-20	LB75176-S0	1/10	11-Mar-2015 9:25 AM	13-Mar-2015 12:00 PM	16-Mar-2015 8:43 PM	N
	PB82104	NA	JW-SB/SG17	SO	JW-SB17-35	G1484-21	LB75176-S0	1/1	11-Mar-2015 9:35 AM	13-Mar-2015 12:00 PM	16-Mar-2015 8:51 PM	N
	PB82104	NA	JW-SB/SG17	SO	JW-SB17-35	G1484-21	LB75176-S0	1/10	11-Mar-2015 9:35 AM	13-Mar-2015 12:00 PM	16-Mar-2015 8:59 PM	N
	PB82104	NA	JW-SB/SG18	SO	JW-SB18-0.5	G1484-22	LB75176-S0	1/1	11-Mar-2015 10:00 AM	13-Mar-2015 12:00 PM	16-Mar-2015 9:07 PM	N
	PB82104	NA	JW-SB/SG18	SO	JW-SB18-0.5	G1484-22	LB75176-S0	1/10	11-Mar-2015 10:00 AM	13-Mar-2015 12:00 PM	16-Mar-2015 9:15 PM	N
	PB82104	NA	JW-SB/SG19	SO	JW-SB19-35	G1484-01	LB75176-S0	1/1	09-Mar-2015 11:30 AM	13-Mar-2015 12:00 PM	16-Mar-2015 1:44 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75176-CC	PB82104	NA	JW-SB/SG19	SO	JW-SB19-35	G1484-01	LB75176-S0	1/10	09-Mar-2015 11:30 AM	13-Mar-2015 12:00 PM	16-Mar-2015 1:52 PM	N
	PB82104	NA	LABQC	SQ	LABQC	PB82104BS	LB75176-S0	1/1	13-Mar-2015 12:00 PM	13-Mar-2015 12:00 PM	16-Mar-2015 1:37 PM	BS
	PB82104	NA	LABQC	SQ	LABQC	PB82104BL	LB75176-S0	1/1	13-Mar-2015 12:00 PM	13-Mar-2015 12:00 PM	16-Mar-2015 1:29 PM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Field Batch Report

--No Records Found--

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.8 / METHOD	Field Duplicate RPD	G1484-11 (N)	1 / 1.00	Cadmium	200	RPD	J/None	< 50	< 100	D5		RPD	
E200.8 / METHOD	Lab Replicate RPD	G1484-04 (LR)	1 / 1.00	Selenium	46.2	RPD	J/UJ	< 20	< 40	D1		RPD	
E200.8 / METHOD	MS Recovery	JW-SB10-2 (MS)	1 / 1.00	Antimony	40.4	Percent	J/R	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB10-2 (MS)	1 / 1.00	Lead	129	Percent	J/None	75 - 125	50 - 135	M			

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB10-0.5	N	Beryllium	0.40	0.35 J	0.35 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-0.5	N	Selenium	2.0	0.093 J	0.093 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-0.5	N	Thallium	0.40	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-15	N	Selenium	2.3	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-15	N	Thallium	0.45	0.30 J	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-2	N	Antimony	0.81	0.81 JN	0.81 UJ	mg/kg	M
E200.8/NONE	SO	JW-SB10-2	N	Beryllium	0.40	0.30 J	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-2	N	Cobalt	0.40	6.7 E	6.7 J	mg/kg	A
E200.8/NONE	SO	JW-SB10-2	N	Lead	0.40	7.2 N	7.2 J	mg/kg	M
E200.8/NONE	SO	JW-SB10-2	N	Selenium	2.0	0.050 J	0.050 J	mg/kg	D1/TR
E200.8/NONE	SO	JW-SB10-2	N	Thallium	0.40	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-25	N	Selenium	2.3	0.85 J	0.85 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-25	N	Thallium	0.45	0.29 J	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-35	N	Beryllium	0.39	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-35	N	Selenium	1.9	0.028 J	0.028 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-35	N	Thallium	0.39	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-5	N	Selenium	2.2	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-5	N	Thallium	0.44	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.5	N	Beryllium	0.43	0.42 J	0.42 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.5	N	Selenium	2.2	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.5	N	Thallium	0.43	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.6	FD	Beryllium	0.40	0.35 J	0.35 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.6	FD	Selenium	2.0	0.079 J	0.079 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.6	FD	Thallium	0.40	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-15	N	Beryllium	0.50	0.44 J	0.44 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-15	N	Selenium	2.5	0.073 J	0.073 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-15	N	Thallium	0.50	0.23 J	0.23 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB16-2	N	Selenium	2.0	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-2	N	Thallium	0.40	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-25	N	Thallium	0.48	0.31 J	0.31 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-35	N	Beryllium	0.39	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-35	N	Selenium	1.9	0.041 J	0.041 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-35	N	Thallium	0.39	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-5	N	Beryllium	0.44	0.42 J	0.42 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-5	N	Selenium	2.2	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-5	N	Thallium	0.44	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-0.5	N	Selenium	2.0	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-0.5	N	Thallium	0.40	0.19 J	0.19 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-15	N	Selenium	2.2	0.035 J	0.035 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-15	N	Thallium	0.44	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-2	N	Beryllium	0.38	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-2	N	Selenium	1.9	0.025 J	0.025 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-2	N	Thallium	0.38	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-25	N	Selenium	2.3	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-25	N	Thallium	0.47	0.29 J	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-35	N	Beryllium	0.38	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-35	N	Selenium	1.9	0.025 J	0.025 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-35	N	Thallium	0.38	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-0.5	N	Selenium	2.0	0.090 J	0.090 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-0.5	N	Thallium	0.39	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB19-35	N	Beryllium	0.40	0.23 J	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB19-35	N	Selenium	2.0	0.085 J	0.085 J	mg/kg	TR
E200.8/NONE	SO	JW-SB19-35	N	Thallium	0.40	0.13 J	0.13 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB10-0.5	N	Arsenic	0.40	1.8	1.8	mg/kg	
E200.8/NONE	SO	JW-SB10-0.5	N	Barium	4.0	127	127	mg/kg	
E200.8/NONE	SO	JW-SB10-0.5	N	Beryllium	0.40	0.35 J	0.35 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-0.5	N	Cobalt	0.40	7.9 E	7.9	mg/kg	
E200.8/NONE	SO	JW-SB10-0.5	N	Chromium	0.80	15.8	15.8	mg/kg	
E200.8/NONE	SO	JW-SB10-0.5	N	Copper	0.80	17.9	17.9	mg/kg	
E200.8/NONE	SO	JW-SB10-0.5	N	Manganese	4.0	356 D	356	mg/kg	
E200.8/NONE	SO	JW-SB10-0.5	N	Nickel	0.40	13.4	13.4	mg/kg	
E200.8/NONE	SO	JW-SB10-0.5	N	Lead	0.40	8.4 N	8.4	mg/kg	
E200.8/NONE	SO	JW-SB10-0.5	N	Selenium	2.0	0.093 J	0.093 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-0.5	N	Thallium	0.40	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-0.5	N	Vanadium	2.0	34.3	34.3	mg/kg	
E200.8/NONE	SO	JW-SB10-0.5	N	Zinc	0.80	101	101	mg/kg	
E200.8/NONE	SO	JW-SB10-15	N	Arsenic	0.45	2.9	2.9	mg/kg	
E200.8/NONE	SO	JW-SB10-15	N	Barium	4.5	204	204	mg/kg	
E200.8/NONE	SO	JW-SB10-15	N	Beryllium	0.45	0.67	0.67	mg/kg	
E200.8/NONE	SO	JW-SB10-15	N	Cobalt	0.45	13.4 E	13.4	mg/kg	
E200.8/NONE	SO	JW-SB10-15	N	Chromium	0.90	27.7	27.7	mg/kg	
E200.8/NONE	SO	JW-SB10-15	N	Copper	0.90	32.2	32.2	mg/kg	
E200.8/NONE	SO	JW-SB10-15	N	Manganese	4.5	671 D	671	mg/kg	
E200.8/NONE	SO	JW-SB10-15	N	Nickel	0.45	21.9	21.9	mg/kg	
E200.8/NONE	SO	JW-SB10-15	N	Lead	0.45	6.9 N	6.9	mg/kg	
E200.8/NONE	SO	JW-SB10-15	N	Selenium	2.3	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-15	N	Thallium	0.45	0.30 J	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-15	N	Vanadium	2.3	58.1	58.1	mg/kg	
E200.8/NONE	SO	JW-SB10-15	N	Zinc	0.90	92.6	92.6	mg/kg	
E200.8/NONE	SO	JW-SB10-2	N	Arsenic	0.40	1.5	1.5	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB10-2	N	Barium	4.0	113	113	mg/kg	
E200.8/NONE	SO	JW-SB10-2	N	Beryllium	0.40	0.30 J	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-2	N	Cobalt	0.40	6.7 E	6.7 J	mg/kg	A
E200.8/NONE	SO	JW-SB10-2	N	Chromium	0.81	13.8	13.8	mg/kg	
E200.8/NONE	SO	JW-SB10-2	N	Copper	0.81	13.9	13.9	mg/kg	
E200.8/NONE	SO	JW-SB10-2	N	Manganese	4.0	289 D	289	mg/kg	
E200.8/NONE	SO	JW-SB10-2	N	Nickel	0.40	10.7	10.7	mg/kg	
E200.8/NONE	SO	JW-SB10-2	N	Lead	0.40	7.2 N	7.2 J	mg/kg	M
E200.8/NONE	SO	JW-SB10-2	N	Selenium	2.0	0.050 J	0.050 J	mg/kg	D1/TR
E200.8/NONE	SO	JW-SB10-2	N	Thallium	0.40	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-2	N	Vanadium	2.0	31.1	31.1	mg/kg	
E200.8/NONE	SO	JW-SB10-2	N	Zinc	0.81	58.2	58.2	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Arsenic	0.45	2.6	2.6	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Barium	4.5	231	231	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Beryllium	0.45	0.69	0.69	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Cadmium	0.45	0.57	0.57	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Cobalt	0.45	14.7 E	14.7	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Chromium	0.90	30.2	30.2	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Copper	0.90	39.4	39.4	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Manganese	4.5	627 D	627	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Nickel	0.45	23.7	23.7	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Lead	0.45	5.9 N	5.9	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Selenium	2.3	0.85 J	0.85 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-25	N	Thallium	0.45	0.29 J	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-25	N	Vanadium	2.3	64.3	64.3	mg/kg	
E200.8/NONE	SO	JW-SB10-25	N	Zinc	0.90	99.5	99.5	mg/kg	
E200.8/NONE	SO	JW-SB10-35	N	Arsenic	0.39	9.4	9.4	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB10-35	N	Barium	3.9	78.6	78.6	mg/kg	
E200.8/NONE	SO	JW-SB10-35	N	Beryllium	0.39	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-35	N	Cobalt	0.39	5.1 E	5.1	mg/kg	
E200.8/NONE	SO	JW-SB10-35	N	Chromium	0.78	10.5	10.5	mg/kg	
E200.8/NONE	SO	JW-SB10-35	N	Copper	0.78	9.9	9.9	mg/kg	
E200.8/NONE	SO	JW-SB10-35	N	Manganese	3.9	253 D	253	mg/kg	
E200.8/NONE	SO	JW-SB10-35	N	Nickel	0.39	8.4	8.4	mg/kg	
E200.8/NONE	SO	JW-SB10-35	N	Lead	0.39	2.2 N	2.2	mg/kg	
E200.8/NONE	SO	JW-SB10-35	N	Selenium	1.9	0.028 J	0.028 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-35	N	Thallium	0.39	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-35	N	Vanadium	1.9	25.3	25.3	mg/kg	
E200.8/NONE	SO	JW-SB10-35	N	Zinc	0.78	39.6	39.6	mg/kg	
E200.8/NONE	SO	JW-SB10-5	N	Arsenic	0.44	2.0	2.0	mg/kg	
E200.8/NONE	SO	JW-SB10-5	N	Barium	4.4	147	147	mg/kg	
E200.8/NONE	SO	JW-SB10-5	N	Beryllium	0.44	0.48	0.48	mg/kg	
E200.8/NONE	SO	JW-SB10-5	N	Cobalt	0.44	9.0 E	9.0	mg/kg	
E200.8/NONE	SO	JW-SB10-5	N	Chromium	0.89	21.4	21.4	mg/kg	
E200.8/NONE	SO	JW-SB10-5	N	Copper	0.89	20.6	20.6	mg/kg	
E200.8/NONE	SO	JW-SB10-5	N	Manganese	4.4	389 D	389	mg/kg	
E200.8/NONE	SO	JW-SB10-5	N	Nickel	0.44	15.7	15.7	mg/kg	
E200.8/NONE	SO	JW-SB10-5	N	Lead	0.44	5.2 N	5.2	mg/kg	
E200.8/NONE	SO	JW-SB10-5	N	Selenium	2.2	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-5	N	Thallium	0.44	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB10-5	N	Vanadium	2.2	42.4	42.4	mg/kg	
E200.8/NONE	SO	JW-SB10-5	N	Zinc	0.89	66.0	66.0	mg/kg	
E200.8/NONE	SO	JW-SB16-0.5	N	Arsenic	0.43	2.9	2.9	mg/kg	
E200.8/NONE	SO	JW-SB16-0.5	N	Barium	4.3	150	150	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB16-0.5	N	Beryllium	0.43	0.42 J	0.42 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.5	N	Cadmium	0.43	0.44	0.44	mg/kg	
E200.8/NONE	SO	JW-SB16-0.5	N	Cobalt	0.43	9.4 E	9.4	mg/kg	
E200.8/NONE	SO	JW-SB16-0.5	N	Chromium	8.6	131 D	131	mg/kg	
E200.8/NONE	SO	JW-SB16-0.5	N	Copper	0.86	32.6	32.6	mg/kg	
E200.8/NONE	SO	JW-SB16-0.5	N	Manganese	4.3	412 D	412	mg/kg	
E200.8/NONE	SO	JW-SB16-0.5	N	Nickel	0.43	16.6	16.6	mg/kg	
E200.8/NONE	SO	JW-SB16-0.5	N	Lead	0.43	45.6 N	45.6	mg/kg	
E200.8/NONE	SO	JW-SB16-0.5	N	Selenium	2.2	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.5	N	Thallium	0.43	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.5	N	Vanadium	2.2	40.6	40.6	mg/kg	
E200.8/NONE	SO	JW-SB16-0.5	N	Zinc	0.86	110	110	mg/kg	
E200.8/NONE	SO	JW-SB16-0.6	FD	Arsenic	0.40	2.3	2.3	mg/kg	
E200.8/NONE	SO	JW-SB16-0.6	FD	Barium	4.0	131	131	mg/kg	
E200.8/NONE	SO	JW-SB16-0.6	FD	Beryllium	0.40	0.35 J	0.35 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.6	FD	Cobalt	0.40	7.7 E	7.7	mg/kg	
E200.8/NONE	SO	JW-SB16-0.6	FD	Chromium	7.9	104 D	104	mg/kg	
E200.8/NONE	SO	JW-SB16-0.6	FD	Copper	0.79	29.8	29.8	mg/kg	
E200.8/NONE	SO	JW-SB16-0.6	FD	Manganese	4.0	342 D	342	mg/kg	
E200.8/NONE	SO	JW-SB16-0.6	FD	Nickel	0.40	14.4	14.4	mg/kg	
E200.8/NONE	SO	JW-SB16-0.6	FD	Lead	0.40	43.2 N	43.2	mg/kg	
E200.8/NONE	SO	JW-SB16-0.6	FD	Selenium	2.0	0.079 J	0.079 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.6	FD	Thallium	0.40	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-0.6	FD	Vanadium	2.0	35.3	35.3	mg/kg	
E200.8/NONE	SO	JW-SB16-0.6	FD	Zinc	0.79	90.3	90.3	mg/kg	
E200.8/NONE	SO	JW-SB16-15	N	Arsenic	0.50	2.5	2.5	mg/kg	
E200.8/NONE	SO	JW-SB16-15	N	Barium	5.0	152	152	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB16-15	N	Beryllium	0.50	0.44 J	0.44 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-15	N	Cobalt	0.50	8.6 E	8.6	mg/kg	
E200.8/NONE	SO	JW-SB16-15	N	Chromium	0.99	23.4	23.4	mg/kg	
E200.8/NONE	SO	JW-SB16-15	N	Copper	0.99	19.3	19.3	mg/kg	
E200.8/NONE	SO	JW-SB16-15	N	Manganese	5.0	346 D	346	mg/kg	
E200.8/NONE	SO	JW-SB16-15	N	Nickel	0.50	17.1	17.1	mg/kg	
E200.8/NONE	SO	JW-SB16-15	N	Lead	0.50	4.5 N	4.5	mg/kg	
E200.8/NONE	SO	JW-SB16-15	N	Selenium	2.5	0.073 J	0.073 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-15	N	Thallium	0.50	0.23 J	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-15	N	Vanadium	2.5	42.7	42.7	mg/kg	
E200.8/NONE	SO	JW-SB16-15	N	Zinc	0.99	66.2	66.2	mg/kg	
E200.8/NONE	SO	JW-SB16-2	N	Arsenic	0.40	2.0	2.0	mg/kg	
E200.8/NONE	SO	JW-SB16-2	N	Barium	4.0	158	158	mg/kg	
E200.8/NONE	SO	JW-SB16-2	N	Beryllium	0.40	0.43	0.43	mg/kg	
E200.8/NONE	SO	JW-SB16-2	N	Cobalt	0.40	9.1 E	9.1	mg/kg	
E200.8/NONE	SO	JW-SB16-2	N	Chromium	0.81	72.9	72.9	mg/kg	
E200.8/NONE	SO	JW-SB16-2	N	Copper	0.81	21.9	21.9	mg/kg	
E200.8/NONE	SO	JW-SB16-2	N	Manganese	4.0	374 D	374	mg/kg	
E200.8/NONE	SO	JW-SB16-2	N	Nickel	0.40	15.2	15.2	mg/kg	
E200.8/NONE	SO	JW-SB16-2	N	Lead	0.40	15.0 N	15.0	mg/kg	
E200.8/NONE	SO	JW-SB16-2	N	Selenium	2.0	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-2	N	Thallium	0.40	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-2	N	Vanadium	2.0	40.1	40.1	mg/kg	
E200.8/NONE	SO	JW-SB16-2	N	Zinc	0.81	81.0	81.0	mg/kg	
E200.8/NONE	SO	JW-SB16-25	N	Arsenic	0.48	3.7	3.7	mg/kg	
E200.8/NONE	SO	JW-SB16-25	N	Barium	4.8	264	264	mg/kg	
E200.8/NONE	SO	JW-SB16-25	N	Beryllium	0.48	0.81	0.81	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB16-25	N	Cobalt	0.48	16.4 E	16.4	mg/kg	
E200.8/NONE	SO	JW-SB16-25	N	Chromium	0.96	34.4	34.4	mg/kg	
E200.8/NONE	SO	JW-SB16-25	N	Copper	0.96	35.9	35.9	mg/kg	
E200.8/NONE	SO	JW-SB16-25	N	Manganese	4.8	809 D	809	mg/kg	
E200.8/NONE	SO	JW-SB16-25	N	Nickel	0.48	26.9	26.9	mg/kg	
E200.8/NONE	SO	JW-SB16-25	N	Lead	0.48	7.8 N	7.8	mg/kg	
E200.8/NONE	SO	JW-SB16-25	N	Thallium	0.48	0.31 J	0.31 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-25	N	Vanadium	2.4	65.1	65.1	mg/kg	
E200.8/NONE	SO	JW-SB16-25	N	Zinc	0.96	101	101	mg/kg	
E200.8/NONE	SO	JW-SB16-35	N	Arsenic	0.39	10.9	10.9	mg/kg	
E200.8/NONE	SO	JW-SB16-35	N	Barium	3.9	82.1	82.1	mg/kg	
E200.8/NONE	SO	JW-SB16-35	N	Beryllium	0.39	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-35	N	Cobalt	0.39	5.0 E	5.0	mg/kg	
E200.8/NONE	SO	JW-SB16-35	N	Chromium	0.78	10.0	10.0	mg/kg	
E200.8/NONE	SO	JW-SB16-35	N	Copper	0.78	10.5	10.5	mg/kg	
E200.8/NONE	SO	JW-SB16-35	N	Manganese	3.9	221 D	221	mg/kg	
E200.8/NONE	SO	JW-SB16-35	N	Nickel	0.39	7.8	7.8	mg/kg	
E200.8/NONE	SO	JW-SB16-35	N	Lead	0.39	2.5 N	2.5	mg/kg	
E200.8/NONE	SO	JW-SB16-35	N	Selenium	1.9	0.041 J	0.041 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-35	N	Thallium	0.39	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-35	N	Vanadium	1.9	29.8	29.8	mg/kg	
E200.8/NONE	SO	JW-SB16-35	N	Zinc	0.78	39.1	39.1	mg/kg	
E200.8/NONE	SO	JW-SB16-5	N	Arsenic	0.44	1.7	1.7	mg/kg	
E200.8/NONE	SO	JW-SB16-5	N	Barium	4.4	123	123	mg/kg	
E200.8/NONE	SO	JW-SB16-5	N	Beryllium	0.44	0.42 J	0.42 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-5	N	Cobalt	0.44	8.3 E	8.3	mg/kg	
E200.8/NONE	SO	JW-SB16-5	N	Chromium	0.87	25.7	25.7	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB16-5	N	Copper	0.87	18.4	18.4	mg/kg	
E200.8/NONE	SO	JW-SB16-5	N	Manganese	4.4	348 D	348	mg/kg	
E200.8/NONE	SO	JW-SB16-5	N	Nickel	0.44	12.7	12.7	mg/kg	
E200.8/NONE	SO	JW-SB16-5	N	Lead	0.44	4.3 N	4.3	mg/kg	
E200.8/NONE	SO	JW-SB16-5	N	Selenium	2.2	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-5	N	Thallium	0.44	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB16-5	N	Vanadium	2.2	37.0	37.0	mg/kg	
E200.8/NONE	SO	JW-SB16-5	N	Zinc	0.87	58.9	58.9	mg/kg	
E200.8/NONE	SO	JW-SB17-0.5	N	Arsenic	0.40	3.3	3.3	mg/kg	
E200.8/NONE	SO	JW-SB17-0.5	N	Barium	4.0	135	135	mg/kg	
E200.8/NONE	SO	JW-SB17-0.5	N	Beryllium	0.40	0.40 J	0.40	mg/kg	
E200.8/NONE	SO	JW-SB17-0.5	N	Cobalt	0.40	8.7 E	8.7	mg/kg	
E200.8/NONE	SO	JW-SB17-0.5	N	Chromium	0.80	23.6	23.6	mg/kg	
E200.8/NONE	SO	JW-SB17-0.5	N	Copper	0.80	23.5	23.5	mg/kg	
E200.8/NONE	SO	JW-SB17-0.5	N	Manganese	4.0	386 D	386	mg/kg	
E200.8/NONE	SO	JW-SB17-0.5	N	Nickel	0.40	15.3	15.3	mg/kg	
E200.8/NONE	SO	JW-SB17-0.5	N	Lead	0.40	18.5 N	18.5	mg/kg	
E200.8/NONE	SO	JW-SB17-0.5	N	Selenium	2.0	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-0.5	N	Thallium	0.40	0.19 J	0.19 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-0.5	N	Vanadium	2.0	39.3	39.3	mg/kg	
E200.8/NONE	SO	JW-SB17-0.5	N	Zinc	0.80	81.6	81.6	mg/kg	
E200.8/NONE	SO	JW-SB17-15	N	Arsenic	0.44	2.4	2.4	mg/kg	
E200.8/NONE	SO	JW-SB17-15	N	Barium	4.4	164	164	mg/kg	
E200.8/NONE	SO	JW-SB17-15	N	Beryllium	0.44	0.47	0.47	mg/kg	
E200.8/NONE	SO	JW-SB17-15	N	Cobalt	0.44	10.7 E	10.7	mg/kg	
E200.8/NONE	SO	JW-SB17-15	N	Chromium	0.89	22.5	22.5	mg/kg	
E200.8/NONE	SO	JW-SB17-15	N	Copper	0.89	21.9	21.9	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB17-15	N	Manganese	4.4	472 D	472	mg/kg	
E200.8/NONE	SO	JW-SB17-15	N	Nickel	0.44	17.6	17.6	mg/kg	
E200.8/NONE	SO	JW-SB17-15	N	Lead	0.44	4.7 N	4.7	mg/kg	
E200.8/NONE	SO	JW-SB17-15	N	Selenium	2.2	0.035 J	0.035 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-15	N	Thallium	0.44	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-15	N	Vanadium	2.2	46.1	46.1	mg/kg	
E200.8/NONE	SO	JW-SB17-15	N	Zinc	0.89	74.6	74.6	mg/kg	
E200.8/NONE	SO	JW-SB17-2	N	Arsenic	0.38	1.0	1.0	mg/kg	
E200.8/NONE	SO	JW-SB17-2	N	Barium	3.8	105	105	mg/kg	
E200.8/NONE	SO	JW-SB17-2	N	Beryllium	0.38	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-2	N	Cobalt	0.38	6.0 E	6.0	mg/kg	
E200.8/NONE	SO	JW-SB17-2	N	Chromium	0.76	10.7	10.7	mg/kg	
E200.8/NONE	SO	JW-SB17-2	N	Copper	0.76	9.8	9.8	mg/kg	
E200.8/NONE	SO	JW-SB17-2	N	Manganese	3.8	258 D	258	mg/kg	
E200.8/NONE	SO	JW-SB17-2	N	Nickel	0.38	8.6	8.6	mg/kg	
E200.8/NONE	SO	JW-SB17-2	N	Lead	0.38	2.5 N	2.5	mg/kg	
E200.8/NONE	SO	JW-SB17-2	N	Selenium	1.9	0.025 J	0.025 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-2	N	Thallium	0.38	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-2	N	Vanadium	1.9	27.8	27.8	mg/kg	
E200.8/NONE	SO	JW-SB17-2	N	Zinc	0.76	44.1	44.1	mg/kg	
E200.8/NONE	SO	JW-SB17-25	N	Arsenic	0.47	3.8	3.8	mg/kg	
E200.8/NONE	SO	JW-SB17-25	N	Barium	4.7	258	258	mg/kg	
E200.8/NONE	SO	JW-SB17-25	N	Beryllium	0.47	0.75	0.75	mg/kg	
E200.8/NONE	SO	JW-SB17-25	N	Cadmium	0.47	0.49	0.49	mg/kg	
E200.8/NONE	SO	JW-SB17-25	N	Cobalt	0.47	16.1 E	16.1	mg/kg	
E200.8/NONE	SO	JW-SB17-25	N	Chromium	0.93	33.3	33.3	mg/kg	
E200.8/NONE	SO	JW-SB17-25	N	Copper	0.93	38.9	38.9	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB17-25	N	Manganese	4.7	680 D	680	mg/kg	
E200.8/NONE	SO	JW-SB17-25	N	Nickel	0.47	25.6	25.6	mg/kg	
E200.8/NONE	SO	JW-SB17-25	N	Lead	0.47	7.4 N	7.4	mg/kg	
E200.8/NONE	SO	JW-SB17-25	N	Selenium	2.3	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-25	N	Thallium	0.47	0.29 J	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-25	N	Vanadium	2.3	68.6	68.6	mg/kg	
E200.8/NONE	SO	JW-SB17-25	N	Zinc	0.93	96.7	96.7	mg/kg	
E200.8/NONE	SO	JW-SB17-35	N	Arsenic	0.38	9.5	9.5	mg/kg	
E200.8/NONE	SO	JW-SB17-35	N	Barium	3.8	94.7	94.7	mg/kg	
E200.8/NONE	SO	JW-SB17-35	N	Beryllium	0.38	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-35	N	Cobalt	0.38	5.0 E	5.0	mg/kg	
E200.8/NONE	SO	JW-SB17-35	N	Chromium	0.75	9.2	9.2	mg/kg	
E200.8/NONE	SO	JW-SB17-35	N	Copper	0.75	8.3	8.3	mg/kg	
E200.8/NONE	SO	JW-SB17-35	N	Manganese	3.8	231 D	231	mg/kg	
E200.8/NONE	SO	JW-SB17-35	N	Nickel	0.38	7.0	7.0	mg/kg	
E200.8/NONE	SO	JW-SB17-35	N	Lead	0.38	2.3 N	2.3	mg/kg	
E200.8/NONE	SO	JW-SB17-35	N	Selenium	1.9	0.025 J	0.025 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-35	N	Thallium	0.38	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-35	N	Vanadium	1.9	22.1	22.1	mg/kg	
E200.8/NONE	SO	JW-SB17-35	N	Zinc	0.75	36.7	36.7	mg/kg	
E200.8/NONE	SO	JW-SB18-0.5	N	Arsenic	0.39	2.3	2.3	mg/kg	
E200.8/NONE	SO	JW-SB18-0.5	N	Barium	3.9	148	148	mg/kg	
E200.8/NONE	SO	JW-SB18-0.5	N	Beryllium	0.39	0.41	0.41	mg/kg	
E200.8/NONE	SO	JW-SB18-0.5	N	Cobalt	0.39	9.2 E	9.2	mg/kg	
E200.8/NONE	SO	JW-SB18-0.5	N	Chromium	0.78	19.0	19.0	mg/kg	
E200.8/NONE	SO	JW-SB18-0.5	N	Copper	0.78	25.0	25.0	mg/kg	
E200.8/NONE	SO	JW-SB18-0.5	N	Manganese	3.9	387 D	387	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB18-0.5	N	Nickel	0.39	16.6	16.6	mg/kg	
E200.8/NONE	SO	JW-SB18-0.5	N	Lead	0.39	13.6 N	13.6	mg/kg	
E200.8/NONE	SO	JW-SB18-0.5	N	Selenium	2.0	0.090 J	0.090 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-0.5	N	Thallium	0.39	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-0.5	N	Vanadium	2.0	40.2	40.2	mg/kg	
E200.8/NONE	SO	JW-SB18-0.5	N	Zinc	0.78	73.1	73.1	mg/kg	
E200.8/NONE	SO	JW-SB19-35	N	Arsenic	0.40	9.4	9.4	mg/kg	
E200.8/NONE	SO	JW-SB19-35	N	Barium	4.0	79.9	79.9	mg/kg	
E200.8/NONE	SO	JW-SB19-35	N	Beryllium	0.40	0.23 J	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB19-35	N	Cobalt	0.40	5.0 E	5.0	mg/kg	
E200.8/NONE	SO	JW-SB19-35	N	Chromium	0.79	9.3	9.3	mg/kg	
E200.8/NONE	SO	JW-SB19-35	N	Copper	0.79	9.5	9.5	mg/kg	
E200.8/NONE	SO	JW-SB19-35	N	Manganese	4.0	225 D	225	mg/kg	
E200.8/NONE	SO	JW-SB19-35	N	Nickel	0.40	7.4	7.4	mg/kg	
E200.8/NONE	SO	JW-SB19-35	N	Lead	0.40	1.8 N	1.8	mg/kg	
E200.8/NONE	SO	JW-SB19-35	N	Selenium	2.0	0.085 J	0.085 J	mg/kg	TR
E200.8/NONE	SO	JW-SB19-35	N	Thallium	0.40	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB19-35	N	Vanadium	2.0	22.4	22.4	mg/kg	
E200.8/NONE	SO	JW-SB19-35	N	Zinc	0.79	38.1	38.1	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SN9

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9SQ3, Certified - 4/3/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9SQ3

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	18	2
SW7471B/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9SQ3. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 3 results (2.14%) out of the 140 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

No COC receipt anomalies or calibration issues were noted.

Data qualifiers were added for minor serial dilution anomalies (A), and lab duplicate imprecision (D1).

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 11:38:02 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Batch Report

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75194-CC	PB82168	NA	JW-SB/SG12	SO	JW-SB12-0.5	G1553-01	LB75194-S0	1/1	16-Mar-2015 8:35 AM	18-Mar-2015 12:00 PM	18-Mar-2015 6:03 PM	N
	PB82168	NA	JW-SB/SG12	SO	JW-SB12-15	G1553-05	LB75194-S0	1/1	16-Mar-2015 9:05 AM	18-Mar-2015 12:00 PM	18-Mar-2015 6:19 PM	N
	PB82168	NA	JW-SB/SG12	SO	JW-SB12-2	G1553-02	LB75194-S0	1/1	16-Mar-2015 8:40 AM	18-Mar-2015 12:00 PM	18-Mar-2015 6:07 PM	N
	PB82168	NA	JW-SB/SG12	SO	JW-SB12-25	G1553-06	LB75194-S0	1/1	16-Mar-2015 9:10 AM	18-Mar-2015 12:00 PM	18-Mar-2015 6:23 PM	N
	PB82168	NA	JW-SB/SG12	SO	JW-SB12-35	G1553-07	LB75194-S0	1/1	16-Mar-2015 9:20 AM	18-Mar-2015 12:00 PM	18-Mar-2015 6:27 PM	N
	PB82168	NA	JW-SB/SG12	SO	JW-SB12-5	G1553-03	LB75194-S0	1/1	16-Mar-2015 8:45 AM	18-Mar-2015 12:00 PM	18-Mar-2015 6:11 PM	N
	PB82168	NA	JW-SB/SG12	SO	JW-SB12-6	G1553-04	LB75194-S0	1/1	16-Mar-2015 8:50 AM	18-Mar-2015 12:00 PM	18-Mar-2015 6:15 PM	FD
	PB82168	NA	JW-SB/SG25	SO	JW-SB25-0.5	G1553-08	LB75194-S0	1/1	16-Mar-2015 12:50 PM	18-Mar-2015 12:00 PM	18-Mar-2015 6:31 PM	N
	PB82168	NA	JW-SB/SG25	SO	JW-SB25-15	G1553-13	LB75194-S0	1/1	16-Mar-2015 1:15 PM	18-Mar-2015 12:00 PM	18-Mar-2015 7:03 PM	N
	PB82168	NA	JW-SB/SG25	SO	JW-SB25-2	G1553-09	LB75194-S0	1/1	16-Mar-2015 12:55 PM	18-Mar-2015 12:00 PM	18-Mar-2015 6:43 PM	N
	PB82168	NA	JW-SB/SG25	SO	JW-SB25-25	G1553-14	LB75194-S0	1/1	16-Mar-2015 1:25 PM	18-Mar-2015 12:00 PM	18-Mar-2015 7:07 PM	N
	PB82168	NA	JW-SB/SG25	SO	JW-SB25-35	G1553-15	LB75194-S0	1/1	16-Mar-2015 1:35 PM	18-Mar-2015 12:00 PM	18-Mar-2015 7:11 PM	N
	PB82168	NA	JW-SB/SG25	SO	JW-SB25-5	G1553-11	LB75194-S0	1/1	16-Mar-2015 1:00 PM	18-Mar-2015 12:00 PM	18-Mar-2015 6:51 PM	LR
	PB82168	NA	JW-SB/SG25	SO	JW-SB25-5	G1553-12	LB75194-S0	1/1	16-Mar-2015 1:00 PM	18-Mar-2015 12:00 PM	18-Mar-2015 6:55 PM	MS
	PB82168	NA	JW-SB/SG25	SO	JW-SB25-5	G1553-10	LB75194-S0	1/1	16-Mar-2015 1:00 PM	18-Mar-2015 12:00 PM	18-Mar-2015 6:47 PM	N
	PB82168	NA	JW-SB/SG26	SO	JW-SB26-0.5	G1553-16	LB75194-S0	1/1	16-Mar-2015 10:35 AM	18-Mar-2015 12:00 PM	18-Mar-2015 7:15 PM	N
	PB82168	NA	JW-SB/SG26	SO	JW-SB26-15	G1553-19	LB75194-S0	1/1	16-Mar-2015 10:55 AM	18-Mar-2015 12:00 PM	18-Mar-2015 7:27 PM	N
	PB82168	NA	JW-SB/SG26	SO	JW-SB26-16	G1553-20	LB75194-S0	1/1	16-Mar-2015 11:00 AM	18-Mar-2015 12:00 PM	18-Mar-2015 7:31 PM	FD
	PB82168	NA	JW-SB/SG26	SO	JW-SB26-2	G1553-17	LB75194-S0	1/1	16-Mar-2015 10:40 AM	18-Mar-2015 12:00 PM	18-Mar-2015 7:19 PM	N
	PB82168	NA	JW-SB/SG26	SO	JW-SB26-25	G1553-21	LB75194-S0	1/1	16-Mar-2015 11:10 AM	18-Mar-2015 12:00 PM	18-Mar-2015 7:35 PM	N
	PB82168	NA	JW-SB/SG26	SO	JW-SB26-35	G1553-22	LB75194-S0	1/1	16-Mar-2015 11:20 AM	18-Mar-2015 12:00 PM	18-Mar-2015 7:39 PM	N
	PB82168	NA	JW-SB/SG26	SO	JW-SB26-5	G1553-18	LB75194-S0	1/1	16-Mar-2015 10:45 AM	18-Mar-2015 12:00 PM	18-Mar-2015 7:23 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75194-CC	PB82168	NA	LABQC	SQ	LABQC	PB82168BS	LB75194-S0	1/1	18-Mar-2015 5:55 PM	18-Mar-2015 5:55 PM	18-Mar-2015 5:55 PM	BS
	PB82168	NA	LABQC	SQ	LABQC	PB82168BL	LB75194-S0	1/1	18-Mar-2015 5:51 PM	18-Mar-2015 5:51 PM	18-Mar-2015 5:51 PM	LB

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75189-CC	PB82166	NA	JW-SB/SG12	SO	JW-SB12-0.5	G1553-01	LB75189-S0	1/1	16-Mar-2015 8:35 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:37 PM	N
	PB82166	NA	JW-SB/SG12	SO	JW-SB12-15	G1553-05	LB75189-S0	1/1	16-Mar-2015 9:05 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:45 PM	N
	PB82166	NA	JW-SB/SG12	SO	JW-SB12-2	G1553-02	LB75189-S0	1/1	16-Mar-2015 8:40 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:39 PM	N
	PB82166	NA	JW-SB/SG12	SO	JW-SB12-25	G1553-06	LB75189-S0	1/1	16-Mar-2015 9:10 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:47 PM	N
	PB82166	NA	JW-SB/SG12	SO	JW-SB12-35	G1553-07	LB75189-S0	1/1	16-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:49 PM	N
	PB82166	NA	JW-SB/SG12	SO	JW-SB12-5	G1553-03	LB75189-S0	1/1	16-Mar-2015 8:45 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:41 PM	N
	PB82166	NA	JW-SB/SG12	SO	JW-SB12-6	G1553-04	LB75189-S0	1/1	16-Mar-2015 8:50 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:43 PM	FD
	PB82166	NA	JW-SB/SG25	SO	JW-SB25-0.5	G1553-08	LB75189-S0	1/1	16-Mar-2015 12:50 PM	17-Mar-2015 12:00 PM	18-Mar-2015 4:52 PM	N
	PB82166	NA	JW-SB/SG25	SO	JW-SB25-15	G1553-13	LB75189-S0	1/1	16-Mar-2015 1:15 PM	17-Mar-2015 12:00 PM	18-Mar-2015 5:02 PM	N
	PB82166	NA	JW-SB/SG25	SO	JW-SB25-2	G1553-09	LB75189-S0	1/1	16-Mar-2015 12:55 PM	17-Mar-2015 12:00 PM	18-Mar-2015 4:54 PM	N
	PB82166	NA	JW-SB/SG25	SO	JW-SB25-25	G1553-14	LB75189-S0	1/1	16-Mar-2015 1:25 PM	17-Mar-2015 12:00 PM	18-Mar-2015 5:04 PM	N
	PB82166	NA	JW-SB/SG25	SO	JW-SB25-35	G1553-15	LB75189-S0	1/1	16-Mar-2015 1:35 PM	17-Mar-2015 12:00 PM	18-Mar-2015 5:11 PM	N
	PB82166	NA	JW-SB/SG25	SO	JW-SB25-5	G1553-11	LB75189-S0	1/1	16-Mar-2015 1:00 PM	17-Mar-2015 12:00 PM	18-Mar-2015 4:58 PM	LR
	PB82166	NA	JW-SB/SG25	SO	JW-SB25-5	G1553-12	LB75189-S0	1/1	16-Mar-2015 1:00 PM	17-Mar-2015 12:00 PM	18-Mar-2015 5:00 PM	MS
	PB82166	NA	JW-SB/SG25	SO	JW-SB25-5	G1553-10	LB75189-S0	1/1	16-Mar-2015 1:00 PM	17-Mar-2015 12:00 PM	18-Mar-2015 4:56 PM	N
	PB82166	NA	JW-SB/SG26	SO	JW-SB26-0.5	G1553-16	LB75189-S0	1/1	16-Mar-2015 10:35 AM	17-Mar-2015 12:00 PM	18-Mar-2015 5:13 PM	N
	PB82166	NA	JW-SB/SG26	SO	JW-SB26-15	G1553-19	LB75189-S0	1/1	16-Mar-2015 10:55 AM	17-Mar-2015 12:00 PM	18-Mar-2015 5:19 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75189-CC	PB82166	NA	JW-SB/SG26	SO	JW-SB26-16	G1553-20	LB75189-S0	1/1	16-Mar-2015 11:00 AM	17-Mar-2015 12:00 PM	18-Mar-2015 5:21 PM	FD
	PB82166	NA	JW-SB/SG26	SO	JW-SB26-2	G1553-17	LB75189-S0	1/1	16-Mar-2015 10:40 AM	17-Mar-2015 12:00 PM	18-Mar-2015 5:15 PM	N
	PB82166	NA	JW-SB/SG26	SO	JW-SB26-25	G1553-21	LB75189-S0	1/1	16-Mar-2015 11:10 AM	17-Mar-2015 12:00 PM	18-Mar-2015 5:23 PM	N
	PB82166	NA	JW-SB/SG26	SO	JW-SB26-35	G1553-22	LB75189-S0	1/1	16-Mar-2015 11:20 AM	17-Mar-2015 12:00 PM	18-Mar-2015 5:26 PM	N
	PB82166	NA	JW-SB/SG26	SO	JW-SB26-5	G1553-18	LB75189-S0	1/1	16-Mar-2015 10:45 AM	17-Mar-2015 12:00 PM	18-Mar-2015 5:17 PM	N
	PB82166	NA	LABQC	SQ	LABQC	PB82166BL	LB75189-S0	1/1	18-Mar-2015 4:35 PM	18-Mar-2015 4:35 PM	18-Mar-2015 4:35 PM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB12-0.5	N	Sodium	394	270 J	270 J	mg/kg	TR
E200.7/NONE	SO	JW-SB12-2	N	Sodium	379	319 J	319 J	mg/kg	TR
E200.7/NONE	SO	JW-SB25-2	N	Sodium	392	305 J	305 J	mg/kg	TR
E200.7/NONE	SO	JW-SB25-35	N	Sodium	359	293 J	293 J	mg/kg	TR
E200.7/NONE	SO	JW-SB25-5	N	Iron	7.9	22100 E	22100 J	mg/kg	A
E200.7/NONE	SO	JW-SB26-0.5	N	Sodium	413	312 J	312 J	mg/kg	TR
E200.7/NONE	SO	JW-SB26-2	N	Sodium	372	282 J	282 J	mg/kg	TR
E200.7/NONE	SO	JW-SB26-35	N	Sodium	383	347 J	347 J	mg/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB12-0.5	N	Mercury	0.10	0.029 J	0.029 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB12-15	N	Mercury	0.11	0.043 J	0.043 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB12-2	N	Mercury	0.096	0.033 J	0.033 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB12-35	N	Mercury	0.099	0.050 J	0.050 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB12-5	N	Mercury	0.10	0.052 J	0.052 J	mg/kg	D1/TR
SW7471B/NONE	SO	JW-SB12-6	FD	Mercury	0.097	0.033 J	0.033 J	mg/kg	D1/TR
SW7471B/NONE	SO	JW-SB25-0.5	N	Mercury	0.11	0.045 J	0.045 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB25-15	N	Mercury	0.11	0.027 J	0.027 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB25-25	N	Mercury	0.12	0.052 J	0.052 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB25-35	N	Mercury	0.10	0.048 J	0.048 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB25-5	N	Mercury	0.10	0.028 J	0.028 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-0.5	N	Mercury	0.10	0.044 J	0.044 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-15	N	Mercury	0.10	0.024 J	0.024 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-16	FD	Mercury	0.098	0.021 J	0.021 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-2	N	Mercury	0.11	0.051 J	0.051 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-25	N	Mercury	0.11	0.087 J	0.087 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-35	N	Mercury	0.095	0.020 J	0.020 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-5	N	Mercury	0.10	0.027 J	0.027 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB12-0.5	N	Aluminum	15.8	6260	6260	mg/kg	
E200.7/NONE	SO	JW-SB12-0.5	N	Calcium	394	6780	6780	mg/kg	
E200.7/NONE	SO	JW-SB12-0.5	N	Iron	7.9	11500 E	11500	mg/kg	
E200.7/NONE	SO	JW-SB12-0.5	N	Potassium	394	2250	2250	mg/kg	
E200.7/NONE	SO	JW-SB12-0.5	N	Magnesium	394	3560	3560	mg/kg	
E200.7/NONE	SO	JW-SB12-0.5	N	Sodium	394	270 J	270 J	mg/kg	TR
E200.7/NONE	SO	JW-SB12-15	N	Aluminum	18.0	17100	17100	mg/kg	
E200.7/NONE	SO	JW-SB12-15	N	Calcium	450	12300	12300	mg/kg	
E200.7/NONE	SO	JW-SB12-15	N	Iron	9.0	27600 E	27600	mg/kg	
E200.7/NONE	SO	JW-SB12-15	N	Potassium	450	5560	5560	mg/kg	
E200.7/NONE	SO	JW-SB12-15	N	Magnesium	450	10400	10400	mg/kg	
E200.7/NONE	SO	JW-SB12-15	N	Sodium	450	2210	2210	mg/kg	
E200.7/NONE	SO	JW-SB12-2	N	Aluminum	15.2	7590	7590	mg/kg	
E200.7/NONE	SO	JW-SB12-2	N	Calcium	379	4380	4380	mg/kg	
E200.7/NONE	SO	JW-SB12-2	N	Iron	7.6	15500 E	15500	mg/kg	
E200.7/NONE	SO	JW-SB12-2	N	Potassium	379	3020	3020	mg/kg	
E200.7/NONE	SO	JW-SB12-2	N	Magnesium	379	4320	4320	mg/kg	
E200.7/NONE	SO	JW-SB12-2	N	Sodium	379	319 J	319 J	mg/kg	TR
E200.7/NONE	SO	JW-SB12-25	N	Aluminum	17.3	19300	19300	mg/kg	
E200.7/NONE	SO	JW-SB12-25	N	Calcium	433	18300	18300	mg/kg	
E200.7/NONE	SO	JW-SB12-25	N	Iron	8.7	29300 E	29300	mg/kg	
E200.7/NONE	SO	JW-SB12-25	N	Potassium	433	5200	5200	mg/kg	
E200.7/NONE	SO	JW-SB12-25	N	Magnesium	433	10500	10500	mg/kg	
E200.7/NONE	SO	JW-SB12-25	N	Sodium	433	1850	1850	mg/kg	
E200.7/NONE	SO	JW-SB12-35	N	Aluminum	16.2	8020	8020	mg/kg	
E200.7/NONE	SO	JW-SB12-35	N	Calcium	406	10800	10800	mg/kg	
E200.7/NONE	SO	JW-SB12-35	N	Iron	8.1	15900 E	15900	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB12-35	N	Potassium	406	2360	2360	mg/kg	
E200.7/NONE	SO	JW-SB12-35	N	Magnesium	406	4760	4760	mg/kg	
E200.7/NONE	SO	JW-SB12-35	N	Sodium	406	480	480	mg/kg	
E200.7/NONE	SO	JW-SB12-5	N	Aluminum	15.9	13700	13700	mg/kg	
E200.7/NONE	SO	JW-SB12-5	N	Calcium	397	7110	7110	mg/kg	
E200.7/NONE	SO	JW-SB12-5	N	Iron	7.9	23100 E	23100	mg/kg	
E200.7/NONE	SO	JW-SB12-5	N	Potassium	397	4070	4070	mg/kg	
E200.7/NONE	SO	JW-SB12-5	N	Magnesium	397	6720	6720	mg/kg	
E200.7/NONE	SO	JW-SB12-5	N	Sodium	397	473	473	mg/kg	
E200.7/NONE	SO	JW-SB12-6	FD	Aluminum	15.9	11200	11200	mg/kg	
E200.7/NONE	SO	JW-SB12-6	FD	Calcium	396	6010	6010	mg/kg	
E200.7/NONE	SO	JW-SB12-6	FD	Iron	7.9	18800 E	18800	mg/kg	
E200.7/NONE	SO	JW-SB12-6	FD	Potassium	396	3160	3160	mg/kg	
E200.7/NONE	SO	JW-SB12-6	FD	Magnesium	396	5460	5460	mg/kg	
E200.7/NONE	SO	JW-SB12-6	FD	Sodium	396	403	403	mg/kg	
E200.7/NONE	SO	JW-SB25-0.5	N	Aluminum	15.1	12000	12000	mg/kg	
E200.7/NONE	SO	JW-SB25-0.5	N	Calcium	378	7260	7260	mg/kg	
E200.7/NONE	SO	JW-SB25-0.5	N	Iron	7.6	22100 E	22100	mg/kg	
E200.7/NONE	SO	JW-SB25-0.5	N	Potassium	378	4600	4600	mg/kg	
E200.7/NONE	SO	JW-SB25-0.5	N	Magnesium	378	6600	6600	mg/kg	
E200.7/NONE	SO	JW-SB25-0.5	N	Sodium	378	445	445	mg/kg	
E200.7/NONE	SO	JW-SB25-15	N	Aluminum	16.1	14500	14500	mg/kg	
E200.7/NONE	SO	JW-SB25-15	N	Calcium	403	7820	7820	mg/kg	
E200.7/NONE	SO	JW-SB25-15	N	Iron	8.1	23600 E	23600	mg/kg	
E200.7/NONE	SO	JW-SB25-15	N	Potassium	403	3800	3800	mg/kg	
E200.7/NONE	SO	JW-SB25-15	N	Magnesium	403	7680	7680	mg/kg	
E200.7/NONE	SO	JW-SB25-15	N	Sodium	403	1490	1490	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB25-2	N	Aluminum	15.7	11600	11600	mg/kg	
E200.7/NONE	SO	JW-SB25-2	N	Calcium	392	5880	5880	mg/kg	
E200.7/NONE	SO	JW-SB25-2	N	Iron	7.8	22300 E	22300	mg/kg	
E200.7/NONE	SO	JW-SB25-2	N	Potassium	392	4650	4650	mg/kg	
E200.7/NONE	SO	JW-SB25-2	N	Magnesium	392	6400	6400	mg/kg	
E200.7/NONE	SO	JW-SB25-2	N	Sodium	392	305 J	305 J	mg/kg	TR
E200.7/NONE	SO	JW-SB25-25	N	Aluminum	18.3	18000	18000	mg/kg	
E200.7/NONE	SO	JW-SB25-25	N	Calcium	457	13700	13700	mg/kg	
E200.7/NONE	SO	JW-SB25-25	N	Iron	9.1	29500 E	29500	mg/kg	
E200.7/NONE	SO	JW-SB25-25	N	Potassium	457	5020	5020	mg/kg	
E200.7/NONE	SO	JW-SB25-25	N	Magnesium	457	10400	10400	mg/kg	
E200.7/NONE	SO	JW-SB25-25	N	Sodium	457	1170	1170	mg/kg	
E200.7/NONE	SO	JW-SB25-35	N	Aluminum	14.4	5820	5820	mg/kg	
E200.7/NONE	SO	JW-SB25-35	N	Calcium	359	2850	2850	mg/kg	
E200.7/NONE	SO	JW-SB25-35	N	Iron	7.2	11300 E	11300	mg/kg	
E200.7/NONE	SO	JW-SB25-35	N	Potassium	359	1770	1770	mg/kg	
E200.7/NONE	SO	JW-SB25-35	N	Magnesium	359	3400	3400	mg/kg	
E200.7/NONE	SO	JW-SB25-35	N	Sodium	359	293 J	293 J	mg/kg	TR
E200.7/NONE	SO	JW-SB25-5	N	Aluminum	15.8	12900	12900	mg/kg	
E200.7/NONE	SO	JW-SB25-5	N	Calcium	396	6480	6480	mg/kg	
E200.7/NONE	SO	JW-SB25-5	N	Iron	7.9	22100 E	22100 J	mg/kg	A
E200.7/NONE	SO	JW-SB25-5	N	Potassium	396	4430	4430	mg/kg	
E200.7/NONE	SO	JW-SB25-5	N	Magnesium	396	6680	6680	mg/kg	
E200.7/NONE	SO	JW-SB25-5	N	Sodium	396	467	467	mg/kg	
E200.7/NONE	SO	JW-SB26-0.5	N	Aluminum	16.5	12300	12300	mg/kg	
E200.7/NONE	SO	JW-SB26-0.5	N	Calcium	413	13500	13500	mg/kg	
E200.7/NONE	SO	JW-SB26-0.5	N	Iron	8.3	22800 E	22800	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB26-0.5	N	Potassium	413	3560	3560	mg/kg	
E200.7/NONE	SO	JW-SB26-0.5	N	Magnesium	413	6570	6570	mg/kg	
E200.7/NONE	SO	JW-SB26-0.5	N	Sodium	413	312 J	312 J	mg/kg	TR
E200.7/NONE	SO	JW-SB26-15	N	Aluminum	14.5	9540	9540	mg/kg	
E200.7/NONE	SO	JW-SB26-15	N	Calcium	362	4620	4620	mg/kg	
E200.7/NONE	SO	JW-SB26-15	N	Iron	7.2	17900 E	17900	mg/kg	
E200.7/NONE	SO	JW-SB26-15	N	Potassium	362	3250	3250	mg/kg	
E200.7/NONE	SO	JW-SB26-15	N	Magnesium	362	5670	5670	mg/kg	
E200.7/NONE	SO	JW-SB26-15	N	Sodium	362	795	795	mg/kg	
E200.7/NONE	SO	JW-SB26-16	FD	Aluminum	14.3	8410	8410	mg/kg	
E200.7/NONE	SO	JW-SB26-16	FD	Calcium	357	4350	4350	mg/kg	
E200.7/NONE	SO	JW-SB26-16	FD	Iron	7.1	16400 E	16400	mg/kg	
E200.7/NONE	SO	JW-SB26-16	FD	Potassium	357	2920	2920	mg/kg	
E200.7/NONE	SO	JW-SB26-16	FD	Magnesium	357	5130	5130	mg/kg	
E200.7/NONE	SO	JW-SB26-16	FD	Sodium	357	734	734	mg/kg	
E200.7/NONE	SO	JW-SB26-2	N	Aluminum	14.9	12300	12300	mg/kg	
E200.7/NONE	SO	JW-SB26-2	N	Calcium	372	6260	6260	mg/kg	
E200.7/NONE	SO	JW-SB26-2	N	Iron	7.4	22000 E	22000	mg/kg	
E200.7/NONE	SO	JW-SB26-2	N	Potassium	372	4490	4490	mg/kg	
E200.7/NONE	SO	JW-SB26-2	N	Magnesium	372	6610	6610	mg/kg	
E200.7/NONE	SO	JW-SB26-2	N	Sodium	372	282 J	282 J	mg/kg	TR
E200.7/NONE	SO	JW-SB26-25	N	Aluminum	16.7	15100	15100	mg/kg	
E200.7/NONE	SO	JW-SB26-25	N	Calcium	418	11700	11700	mg/kg	
E200.7/NONE	SO	JW-SB26-25	N	Iron	8.4	24800 E	24800	mg/kg	
E200.7/NONE	SO	JW-SB26-25	N	Potassium	418	4500	4500	mg/kg	
E200.7/NONE	SO	JW-SB26-25	N	Magnesium	418	8730	8730	mg/kg	
E200.7/NONE	SO	JW-SB26-25	N	Sodium	418	769	769	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB26-35	N	Aluminum	15.3	9040	9040	mg/kg	
E200.7/NONE	SO	JW-SB26-35	N	Calcium	383	4320	4320	mg/kg	
E200.7/NONE	SO	JW-SB26-35	N	Iron	7.7	16800 E	16800	mg/kg	
E200.7/NONE	SO	JW-SB26-35	N	Potassium	383	2960	2960	mg/kg	
E200.7/NONE	SO	JW-SB26-35	N	Magnesium	383	5390	5390	mg/kg	
E200.7/NONE	SO	JW-SB26-35	N	Sodium	383	347 J	347 J	mg/kg	TR
E200.7/NONE	SO	JW-SB26-5	N	Aluminum	15.2	13300	13300	mg/kg	
E200.7/NONE	SO	JW-SB26-5	N	Calcium	381	6880	6880	mg/kg	
E200.7/NONE	SO	JW-SB26-5	N	Iron	7.6	21900 E	21900	mg/kg	
E200.7/NONE	SO	JW-SB26-5	N	Potassium	381	4390	4390	mg/kg	
E200.7/NONE	SO	JW-SB26-5	N	Magnesium	381	6540	6540	mg/kg	
E200.7/NONE	SO	JW-SB26-5	N	Sodium	381	495	495	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB12-0.5	N	Mercury	0.10	0.029 J	0.029 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB12-15	N	Mercury	0.11	0.043 J	0.043 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB12-2	N	Mercury	0.096	0.033 J	0.033 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB12-25	N	Mercury	0.13	0.13	0.13	mg/kg	
SW7471B/NONE	SO	JW-SB12-35	N	Mercury	0.099	0.050 J	0.050 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB12-5	N	Mercury	0.10	0.052 J	0.052 J	mg/kg	D1/TR
SW7471B/NONE	SO	JW-SB12-6	FD	Mercury	0.097	0.033 J	0.033 J	mg/kg	D1/TR
SW7471B/NONE	SO	JW-SB25-0.5	N	Mercury	0.11	0.045 J	0.045 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB25-15	N	Mercury	0.11	0.027 J	0.027 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB25-2	N	Mercury	0.10	0.73	0.73	mg/kg	
SW7471B/NONE	SO	JW-SB25-25	N	Mercury	0.12	0.052 J	0.052 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB25-35	N	Mercury	0.10	0.048 J	0.048 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB25-5	N	Mercury	0.10	0.028 J	0.028 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB26-0.5	N	Mercury	0.10	0.044 J	0.044 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-15	N	Mercury	0.10	0.024 J	0.024 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-16	FD	Mercury	0.098	0.021 J	0.021 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-2	N	Mercury	0.11	0.051 J	0.051 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-25	N	Mercury	0.11	0.087 J	0.087 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-35	N	Mercury	0.095	0.020 J	0.020 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB26-5	N	Mercury	0.10	0.027 J	0.027 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SQ3

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9SQ4, Certified - 4/13/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9SQ4

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.8/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9SQ4. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 5 results (1.56%) out of the 320 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

No COC receipt anomalies or calibration issues were noted.

Data qualifiers were added for minor poor matrix spike recoveries (M).

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 11:43:18 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75212-CC	PB82169	NA	JW-SB/SG12	SO	JW-SB12-0.5	G1554-01	LB75212-S0	1/1	16-Mar-2015 8:35 AM	18-Mar-2015 12:00 PM	19-Mar-2015 5:19 AM	N
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-0.5	G1554-01	LB75212-S0	1/10	16-Mar-2015 8:35 AM	18-Mar-2015 12:00 PM	19-Mar-2015 5:27 AM	N
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-15	G1554-05	LB75212-S0	1/1	16-Mar-2015 9:05 AM	18-Mar-2015 12:00 PM	19-Mar-2015 6:46 AM	N
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-15	G1554-05	LB75212-S0	1/10	16-Mar-2015 9:05 AM	18-Mar-2015 12:00 PM	19-Mar-2015 6:54 AM	N
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-2	G1554-02	LB75212-S0	1/1	16-Mar-2015 8:40 AM	18-Mar-2015 12:00 PM	19-Mar-2015 5:35 AM	N
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-25	G1554-06	LB75212-S0	1/1	16-Mar-2015 9:10 AM	18-Mar-2015 12:00 PM	19-Mar-2015 7:02 AM	N
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-25	G1554-06	LB75212-S0	1/10	16-Mar-2015 9:10 AM	18-Mar-2015 12:00 PM	19-Mar-2015 7:10 AM	N
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-35	G1554-07	LB75212-S0	1/1	16-Mar-2015 9:20 AM	18-Mar-2015 12:00 PM	19-Mar-2015 7:18 AM	N
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-35	G1554-07	LB75212-S0	1/10	16-Mar-2015 9:20 AM	18-Mar-2015 12:00 PM	19-Mar-2015 7:26 AM	N
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-5	G1554-03	LB75212-S0	1/1	16-Mar-2015 8:45 AM	18-Mar-2015 12:00 PM	19-Mar-2015 5:51 AM	N
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-5	G1554-03	LB75212-S0	1/10	16-Mar-2015 8:45 AM	18-Mar-2015 12:00 PM	19-Mar-2015 5:59 AM	N
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-6	G1554-04	LB75212-S0	1/1	16-Mar-2015 8:50 AM	18-Mar-2015 12:00 PM	19-Mar-2015 6:07 AM	FD
	PB82169	NA	JW-SB/SG12	SO	JW-SB12-6	G1554-04	LB75212-S0	1/10	16-Mar-2015 8:50 AM	18-Mar-2015 12:00 PM	19-Mar-2015 6:14 AM	FD
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-0.5	G1554-08	LB75212-S0	1/1	16-Mar-2015 12:50 PM	18-Mar-2015 12:00 PM	19-Mar-2015 7:34 AM	N
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-0.5	G1554-08	LB75212-S0	1/10	16-Mar-2015 12:50 PM	18-Mar-2015 12:00 PM	19-Mar-2015 7:42 AM	N
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-15	G1554-13	LB75212-S0	1/1	16-Mar-2015 1:15 PM	18-Mar-2015 12:00 PM	19-Mar-2015 9:33 AM	N
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-15	G1554-13	LB75212-S0	1/10	16-Mar-2015 1:15 PM	18-Mar-2015 12:00 PM	19-Mar-2015 9:41 AM	N
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-2	G1554-09	LB75212-S0	1/1	16-Mar-2015 12:55 PM	18-Mar-2015 12:00 PM	19-Mar-2015 7:49 AM	N
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-2	G1554-09	LB75212-S0	1/10	16-Mar-2015 12:55 PM	18-Mar-2015 12:00 PM	19-Mar-2015 7:57 AM	N
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-25	G1554-14	LB75212-S0	1/1	16-Mar-2015 1:25 PM	18-Mar-2015 12:00 PM	19-Mar-2015 10:13 AM	N
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-25	G1554-14	LB75212-S0	1/10	16-Mar-2015 1:25 PM	18-Mar-2015 12:00 PM	19-Mar-2015 10:21 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75212-CC	PB82169	NA	JW-SB/SG25	SO	JW-SB25-35	G1554-15	LB75212-S0	1/1	16-Mar-2015 1:35 PM	18-Mar-2015 12:00 PM	19-Mar-2015 10:29 AM	N
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-35	G1554-15	LB75212-S0	1/10	16-Mar-2015 1:35 PM	18-Mar-2015 12:00 PM	19-Mar-2015 10:37 AM	N
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-5	G1554-11	LB75212-S0	1/1	16-Mar-2015 1:00 PM	18-Mar-2015 12:00 PM	19-Mar-2015 8:45 AM	LR
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-5	G1554-11	LB75212-S0	1/10	16-Mar-2015 1:00 PM	18-Mar-2015 12:00 PM	19-Mar-2015 8:53 AM	LR
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-5	G1554-12	LB75212-S0	1/1	16-Mar-2015 1:00 PM	18-Mar-2015 12:00 PM	19-Mar-2015 9:17 AM	MS
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-5	G1554-12	LB75212-S0	1/10	16-Mar-2015 1:00 PM	18-Mar-2015 12:00 PM	19-Mar-2015 9:25 AM	MS
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-5	G1554-10	LB75212-S0	1/1	16-Mar-2015 1:00 PM	18-Mar-2015 12:00 PM	19-Mar-2015 8:29 AM	N
	PB82169	NA	JW-SB/SG25	SO	JW-SB25-5	G1554-10	LB75212-S0	1/10	16-Mar-2015 1:00 PM	18-Mar-2015 12:00 PM	19-Mar-2015 8:37 AM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-0.5	G1554-16	LB75212-S0	1/1	16-Mar-2015 10:35 AM	18-Mar-2015 12:00 PM	19-Mar-2015 10:45 AM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-0.5	G1554-16	LB75212-S0	1/10	16-Mar-2015 10:35 AM	18-Mar-2015 12:00 PM	19-Mar-2015 10:53 AM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-15	G1554-19	LB75212-S0	1/1	16-Mar-2015 10:55 AM	18-Mar-2015 12:00 PM	19-Mar-2015 11:56 AM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-15	G1554-19	LB75212-S0	1/10	16-Mar-2015 10:55 AM	18-Mar-2015 12:00 PM	19-Mar-2015 12:04 PM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-16	G1554-20	LB75212-S0	1/1	16-Mar-2015 11:00 AM	18-Mar-2015 12:00 PM	19-Mar-2015 12:12 PM	FD
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-16	G1554-20	LB75212-S0	1/10	16-Mar-2015 11:00 AM	18-Mar-2015 12:00 PM	19-Mar-2015 12:20 PM	FD
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-2	G1554-17	LB75212-S0	1/1	16-Mar-2015 10:40 AM	18-Mar-2015 12:00 PM	19-Mar-2015 11:01 AM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-2	G1554-17	LB75212-S0	1/10	16-Mar-2015 10:40 AM	18-Mar-2015 12:00 PM	19-Mar-2015 11:09 AM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-25	G1554-21	LB75212-S0	1/1	16-Mar-2015 11:10 AM	18-Mar-2015 12:00 PM	19-Mar-2015 12:28 PM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-25	G1554-21	LB75212-S0	1/10	16-Mar-2015 11:10 AM	18-Mar-2015 12:00 PM	19-Mar-2015 12:36 PM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-35	G1554-22	LB75212-S0	1/1	16-Mar-2015 11:20 AM	18-Mar-2015 12:00 PM	19-Mar-2015 12:45 PM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-35	G1554-22	LB75212-S0	1/10	16-Mar-2015 11:20 AM	18-Mar-2015 12:00 PM	19-Mar-2015 12:53 PM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-5	G1554-18	LB75212-S0	1/1	16-Mar-2015 10:45 AM	18-Mar-2015 12:00 PM	19-Mar-2015 11:17 AM	N
	PB82169	NA	JW-SB/SG26	SO	JW-SB26-5	G1554-18	LB75212-S0	1/10	16-Mar-2015 10:45 AM	18-Mar-2015 12:00 PM	19-Mar-2015 11:25 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75212-CC	PB82169	NA	LABQC	SQ	LABQC	PB82169BS	LB75212-S0	1/1	18-Mar-2015 12:00 PM	18-Mar-2015 12:00 PM	19-Mar-2015 5:11 AM	BS
	PB82169	NA	LABQC	SQ	LABQC	PB82169BL	LB75212-S0	1/1	18-Mar-2015 12:00 PM	18-Mar-2015 12:00 PM	19-Mar-2015 5:03 AM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.8 / METHOD	MS Recovery	JW-SB25-5 (MS)	1 / 1.00	Barium	130	Percent	J/None	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB25-5 (MS)	1 / 1.00	Chromium	134	Percent	J/None	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB25-5 (MS)	1 / 1.00	Lead	210	Percent	J/None	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB25-5 (MS)	1 / 10.00	Manganese	361	Percent	J/None	75 - 125	50 - 135	M	Spike amount Insignificant	4.00	
E200.8 / METHOD	MS Recovery	JW-SB25-5 (MS)	1 / 10.00	Vanadium	129	Percent	J/None	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB25-5 (MS)	1 / 10.00	Zinc	142	Percent	J/None	75 - 125	50 - 135	M			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB12-0.5	N	Beryllium	0.40	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-0.5	N	Cadmium	0.40	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-15	N	Cadmium	0.45	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-2	N	Beryllium	0.39	0.11 J	0.11 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-2	N	Cadmium	0.39	0.035 J	0.035 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-25	N	Cadmium	0.46	0.38 J	0.38 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-35	N	Beryllium	0.39	0.23 J	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-35	N	Cadmium	0.39	0.074 J	0.074 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-5	N	Cadmium	0.39	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-6	FD	Cadmium	0.40	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-0.5	N	Beryllium	0.39	0.33 J	0.33 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-0.5	N	Cadmium	0.39	0.29 J	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-15	N	Beryllium	0.38	0.34 J	0.34 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-15	N	Cadmium	0.38	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-2	N	Beryllium	0.40	0.35 J	0.35 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-25	N	Cadmium	0.42	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-35	N	Beryllium	0.39	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-35	N	Cadmium	0.39	0.036 J	0.036 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-5	N	Barium	3.8	131 N	131 J	mg/kg	M
E200.8/NONE	SO	JW-SB25-5	N	Cadmium	0.38	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-5	N	Chromium	0.77	17.6 N	17.6 J	mg/kg	M
E200.8/NONE	SO	JW-SB25-5	N	Lead	0.38	4.9 N	4.9 J	mg/kg	M
E200.8/NONE	SO	JW-SB25-5	N	Vanadium	19.2	38.1 ND	38.1 J	mg/kg	M
E200.8/NONE	SO	JW-SB25-5	N	Zinc	7.7	65.4 ND	65.4 J	mg/kg	M
E200.8/NONE	SO	JW-SB26-0.5	N	Beryllium	0.40	0.36 J	0.36 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-15	N	Beryllium	0.37	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-15	N	Cadmium	0.37	0.058 J	0.058 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB26-16	FD	Beryllium	0.36	0.24 J	0.24 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-16	FD	Cadmium	0.36	0.058 J	0.058 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-2	N	Beryllium	0.40	0.36 J	0.36 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-2	N	Cadmium	0.40	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-25	N	Cadmium	0.43	0.21 J	0.21 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-35	N	Beryllium	0.39	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-35	N	Cadmium	0.39	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-5	N	Cadmium	0.40	0.15 J	0.15 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB12-0.5	N	Arsenic	0.40	1.4	1.4	mg/kg	
E200.8/NONE	SO	JW-SB12-0.5	N	Barium	4.0	93.5 N	93.5	mg/kg	
E200.8/NONE	SO	JW-SB12-0.5	N	Beryllium	0.40	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-0.5	N	Cadmium	0.40	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-0.5	N	Cobalt	0.40	8.0 E	8.0	mg/kg	
E200.8/NONE	SO	JW-SB12-0.5	N	Chromium	0.80	11.6 N	11.6	mg/kg	
E200.8/NONE	SO	JW-SB12-0.5	N	Copper	0.80	16.6	16.6	mg/kg	
E200.8/NONE	SO	JW-SB12-0.5	N	Manganese	4.0	252 D	252	mg/kg	
E200.8/NONE	SO	JW-SB12-0.5	N	Nickel	0.40	9.1	9.1	mg/kg	
E200.8/NONE	SO	JW-SB12-0.5	N	Lead	0.40	15.7 N	15.7	mg/kg	
E200.8/NONE	SO	JW-SB12-0.5	N	Vanadium	2.0	25.7 N	25.7	mg/kg	
E200.8/NONE	SO	JW-SB12-0.5	N	Zinc	0.80	49.8 N	49.8	mg/kg	
E200.8/NONE	SO	JW-SB12-15	N	Arsenic	0.45	1.9	1.9	mg/kg	
E200.8/NONE	SO	JW-SB12-15	N	Barium	4.5	187 N	187	mg/kg	
E200.8/NONE	SO	JW-SB12-15	N	Beryllium	0.45	0.49	0.49	mg/kg	
E200.8/NONE	SO	JW-SB12-15	N	Cadmium	0.45	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-15	N	Cobalt	0.45	14.8 E	14.8	mg/kg	
E200.8/NONE	SO	JW-SB12-15	N	Chromium	0.90	24.7 N	24.7	mg/kg	
E200.8/NONE	SO	JW-SB12-15	N	Copper	0.90	23.8	23.8	mg/kg	
E200.8/NONE	SO	JW-SB12-15	N	Manganese	4.5	524 D	524	mg/kg	
E200.8/NONE	SO	JW-SB12-15	N	Nickel	0.45	18.8	18.8	mg/kg	
E200.8/NONE	SO	JW-SB12-15	N	Lead	0.45	4.6 N	4.6	mg/kg	
E200.8/NONE	SO	JW-SB12-15	N	Vanadium	2.2	51.3 N	51.3	mg/kg	
E200.8/NONE	SO	JW-SB12-15	N	Zinc	0.90	86.5 N	86.5	mg/kg	
E200.8/NONE	SO	JW-SB12-2	N	Arsenic	0.39	0.50	0.50	mg/kg	
E200.8/NONE	SO	JW-SB12-2	N	Barium	3.9	35.1 N	35.1	mg/kg	
E200.8/NONE	SO	JW-SB12-2	N	Beryllium	0.39	0.11 J	0.11 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB12-2	N	Cadmium	0.39	0.035 J	0.035 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-2	N	Cobalt	0.39	2.6 E	2.6	mg/kg	
E200.8/NONE	SO	JW-SB12-2	N	Chromium	0.79	4.1 N	4.1	mg/kg	
E200.8/NONE	SO	JW-SB12-2	N	Copper	0.79	4.4	4.4	mg/kg	
E200.8/NONE	SO	JW-SB12-2	N	Manganese	0.39	113	113	mg/kg	
E200.8/NONE	SO	JW-SB12-2	N	Nickel	0.39	3.2	3.2	mg/kg	
E200.8/NONE	SO	JW-SB12-2	N	Lead	0.39	1.7 N	1.7	mg/kg	
E200.8/NONE	SO	JW-SB12-2	N	Vanadium	2.0	10.2 N	10.2	mg/kg	
E200.8/NONE	SO	JW-SB12-2	N	Zinc	0.79	19.5 N	19.5	mg/kg	
E200.8/NONE	SO	JW-SB12-25	N	Arsenic	0.46	2.5	2.5	mg/kg	
E200.8/NONE	SO	JW-SB12-25	N	Barium	4.6	208 N	208	mg/kg	
E200.8/NONE	SO	JW-SB12-25	N	Beryllium	0.46	0.60	0.60	mg/kg	
E200.8/NONE	SO	JW-SB12-25	N	Cadmium	0.46	0.38 J	0.38 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-25	N	Cobalt	0.46	16.0 E	16.0	mg/kg	
E200.8/NONE	SO	JW-SB12-25	N	Chromium	0.92	27.4 N	27.4	mg/kg	
E200.8/NONE	SO	JW-SB12-25	N	Copper	0.92	30.1	30.1	mg/kg	
E200.8/NONE	SO	JW-SB12-25	N	Manganese	4.6	587 D	587	mg/kg	
E200.8/NONE	SO	JW-SB12-25	N	Nickel	0.46	21.5	21.5	mg/kg	
E200.8/NONE	SO	JW-SB12-25	N	Lead	0.46	5.8 N	5.8	mg/kg	
E200.8/NONE	SO	JW-SB12-25	N	Vanadium	2.3	53.8 N	53.8	mg/kg	
E200.8/NONE	SO	JW-SB12-25	N	Zinc	0.92	89.3 N	89.3	mg/kg	
E200.8/NONE	SO	JW-SB12-35	N	Arsenic	0.39	7.8	7.8	mg/kg	
E200.8/NONE	SO	JW-SB12-35	N	Barium	3.9	67.0 N	67.0	mg/kg	
E200.8/NONE	SO	JW-SB12-35	N	Beryllium	0.39	0.23 J	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-35	N	Cadmium	0.39	0.074 J	0.074 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-35	N	Cobalt	0.39	7.5 E	7.5	mg/kg	
E200.8/NONE	SO	JW-SB12-35	N	Chromium	0.79	9.8 N	9.8	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB12-35	N	Copper	0.79	8.6	8.6	mg/kg	
E200.8/NONE	SO	JW-SB12-35	N	Manganese	3.9	268 D	268	mg/kg	
E200.8/NONE	SO	JW-SB12-35	N	Nickel	0.39	8.0	8.0	mg/kg	
E200.8/NONE	SO	JW-SB12-35	N	Lead	0.39	2.1 N	2.1	mg/kg	
E200.8/NONE	SO	JW-SB12-35	N	Vanadium	2.0	23.7 N	23.7	mg/kg	
E200.8/NONE	SO	JW-SB12-35	N	Zinc	0.79	35.7 N	35.7	mg/kg	
E200.8/NONE	SO	JW-SB12-5	N	Arsenic	0.39	1.8	1.8	mg/kg	
E200.8/NONE	SO	JW-SB12-5	N	Barium	3.9	142 N	142	mg/kg	
E200.8/NONE	SO	JW-SB12-5	N	Beryllium	0.39	0.48	0.48	mg/kg	
E200.8/NONE	SO	JW-SB12-5	N	Cadmium	0.39	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-5	N	Cobalt	0.39	11.9 E	11.9	mg/kg	
E200.8/NONE	SO	JW-SB12-5	N	Chromium	0.77	17.8 N	17.8	mg/kg	
E200.8/NONE	SO	JW-SB12-5	N	Copper	0.77	19.8	19.8	mg/kg	
E200.8/NONE	SO	JW-SB12-5	N	Manganese	3.9	448 D	448	mg/kg	
E200.8/NONE	SO	JW-SB12-5	N	Nickel	0.39	13.9	13.9	mg/kg	
E200.8/NONE	SO	JW-SB12-5	N	Lead	0.39	5.2 N	5.2	mg/kg	
E200.8/NONE	SO	JW-SB12-5	N	Vanadium	1.9	40.4 N	40.4	mg/kg	
E200.8/NONE	SO	JW-SB12-5	N	Zinc	0.77	67.0 N	67.0	mg/kg	
E200.8/NONE	SO	JW-SB12-6	FD	Arsenic	0.40	1.9	1.9	mg/kg	
E200.8/NONE	SO	JW-SB12-6	FD	Barium	4.0	150 N	150	mg/kg	
E200.8/NONE	SO	JW-SB12-6	FD	Beryllium	0.40	0.48	0.48	mg/kg	
E200.8/NONE	SO	JW-SB12-6	FD	Cadmium	0.40	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB12-6	FD	Cobalt	0.40	12.0 E	12.0	mg/kg	
E200.8/NONE	SO	JW-SB12-6	FD	Chromium	0.81	19.1 N	19.1	mg/kg	
E200.8/NONE	SO	JW-SB12-6	FD	Copper	0.81	21.0	21.0	mg/kg	
E200.8/NONE	SO	JW-SB12-6	FD	Manganese	4.0	435 D	435	mg/kg	
E200.8/NONE	SO	JW-SB12-6	FD	Nickel	0.40	14.6	14.6	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB12-6	FD	Lead	0.40	5.6 N	5.6	mg/kg	
E200.8/NONE	SO	JW-SB12-6	FD	Vanadium	2.0	42.0 N	42.0	mg/kg	
E200.8/NONE	SO	JW-SB12-6	FD	Zinc	0.81	72.2 N	72.2	mg/kg	
E200.8/NONE	SO	JW-SB25-0.5	N	Arsenic	0.39	1.9	1.9	mg/kg	
E200.8/NONE	SO	JW-SB25-0.5	N	Barium	3.9	127 N	127	mg/kg	
E200.8/NONE	SO	JW-SB25-0.5	N	Beryllium	0.39	0.33 J	0.33 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-0.5	N	Cadmium	0.39	0.29 J	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-0.5	N	Cobalt	0.39	10.3 E	10.3	mg/kg	
E200.8/NONE	SO	JW-SB25-0.5	N	Chromium	0.78	17.7 N	17.7	mg/kg	
E200.8/NONE	SO	JW-SB25-0.5	N	Copper	0.78	19.0	19.0	mg/kg	
E200.8/NONE	SO	JW-SB25-0.5	N	Manganese	3.9	355 D	355	mg/kg	
E200.8/NONE	SO	JW-SB25-0.5	N	Nickel	0.39	13.3	13.3	mg/kg	
E200.8/NONE	SO	JW-SB25-0.5	N	Lead	0.39	26.7 N	26.7	mg/kg	
E200.8/NONE	SO	JW-SB25-0.5	N	Vanadium	2.0	34.5 N	34.5	mg/kg	
E200.8/NONE	SO	JW-SB25-0.5	N	Zinc	0.78	91.5 N	91.5	mg/kg	
E200.8/NONE	SO	JW-SB25-15	N	Arsenic	0.38	1.1	1.1	mg/kg	
E200.8/NONE	SO	JW-SB25-15	N	Barium	3.8	103 N	103	mg/kg	
E200.8/NONE	SO	JW-SB25-15	N	Beryllium	0.38	0.34 J	0.34 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-15	N	Cadmium	0.38	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-15	N	Cobalt	0.38	8.6 E	8.6	mg/kg	
E200.8/NONE	SO	JW-SB25-15	N	Chromium	0.76	13.9 N	13.9	mg/kg	
E200.8/NONE	SO	JW-SB25-15	N	Copper	0.76	15.9	15.9	mg/kg	
E200.8/NONE	SO	JW-SB25-15	N	Manganese	3.8	233 D	233	mg/kg	
E200.8/NONE	SO	JW-SB25-15	N	Nickel	0.38	10.8	10.8	mg/kg	
E200.8/NONE	SO	JW-SB25-15	N	Lead	0.38	3.6 N	3.6	mg/kg	
E200.8/NONE	SO	JW-SB25-15	N	Vanadium	1.9	29.8 N	29.8	mg/kg	
E200.8/NONE	SO	JW-SB25-15	N	Zinc	0.76	45.8 N	45.8	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB25-2	N	Arsenic	0.40	1.7	1.7	mg/kg	
E200.8/NONE	SO	JW-SB25-2	N	Barium	4.0	134 N	134	mg/kg	
E200.8/NONE	SO	JW-SB25-2	N	Beryllium	0.40	0.35 J	0.35 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-2	N	Cadmium	0.40	0.42	0.42	mg/kg	
E200.8/NONE	SO	JW-SB25-2	N	Cobalt	0.40	11.0 E	11.0	mg/kg	
E200.8/NONE	SO	JW-SB25-2	N	Chromium	0.80	23.1 N	23.1	mg/kg	
E200.8/NONE	SO	JW-SB25-2	N	Copper	0.80	22.2	22.2	mg/kg	
E200.8/NONE	SO	JW-SB25-2	N	Manganese	4.0	352 D	352	mg/kg	
E200.8/NONE	SO	JW-SB25-2	N	Nickel	0.40	13.3	13.3	mg/kg	
E200.8/NONE	SO	JW-SB25-2	N	Lead	0.40	52.2 N	52.2	mg/kg	
E200.8/NONE	SO	JW-SB25-2	N	Vanadium	2.0	36.6 N	36.6	mg/kg	
E200.8/NONE	SO	JW-SB25-2	N	Zinc	0.80	138 N	138	mg/kg	
E200.8/NONE	SO	JW-SB25-25	N	Arsenic	0.42	3.2	3.2	mg/kg	
E200.8/NONE	SO	JW-SB25-25	N	Barium	4.2	187 N	187	mg/kg	
E200.8/NONE	SO	JW-SB25-25	N	Beryllium	0.42	0.55	0.55	mg/kg	
E200.8/NONE	SO	JW-SB25-25	N	Cadmium	0.42	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-25	N	Cobalt	0.42	14.1 E	14.1	mg/kg	
E200.8/NONE	SO	JW-SB25-25	N	Chromium	0.84	23.8 N	23.8	mg/kg	
E200.8/NONE	SO	JW-SB25-25	N	Copper	0.84	27.4	27.4	mg/kg	
E200.8/NONE	SO	JW-SB25-25	N	Manganese	4.2	575 D	575	mg/kg	
E200.8/NONE	SO	JW-SB25-25	N	Nickel	0.42	19.0	19.0	mg/kg	
E200.8/NONE	SO	JW-SB25-25	N	Lead	0.42	5.6 N	5.6	mg/kg	
E200.8/NONE	SO	JW-SB25-25	N	Vanadium	2.1	49.4 N	49.4	mg/kg	
E200.8/NONE	SO	JW-SB25-25	N	Zinc	0.84	80.5 N	80.5	mg/kg	
E200.8/NONE	SO	JW-SB25-35	N	Arsenic	0.39	9.9	9.9	mg/kg	
E200.8/NONE	SO	JW-SB25-35	N	Barium	3.9	75.8 N	75.8	mg/kg	
E200.8/NONE	SO	JW-SB25-35	N	Beryllium	0.39	0.22 J	0.22 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB25-35	N	Cadmium	0.39	0.036 J	0.036 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-35	N	Cobalt	0.39	6.5 E	6.5	mg/kg	
E200.8/NONE	SO	JW-SB25-35	N	Chromium	0.79	13.9 N	13.9	mg/kg	
E200.8/NONE	SO	JW-SB25-35	N	Copper	0.79	8.5	8.5	mg/kg	
E200.8/NONE	SO	JW-SB25-35	N	Manganese	3.9	232 D	232	mg/kg	
E200.8/NONE	SO	JW-SB25-35	N	Nickel	0.39	8.7	8.7	mg/kg	
E200.8/NONE	SO	JW-SB25-35	N	Lead	0.39	2.1 N	2.1	mg/kg	
E200.8/NONE	SO	JW-SB25-35	N	Vanadium	2.0	20.8 N	20.8	mg/kg	
E200.8/NONE	SO	JW-SB25-35	N	Zinc	0.79	37.7 N	37.7	mg/kg	
E200.8/NONE	SO	JW-SB25-5	N	Arsenic	0.38	1.5	1.5	mg/kg	
E200.8/NONE	SO	JW-SB25-5	N	Barium	3.8	131 N	131 J	mg/kg	M
E200.8/NONE	SO	JW-SB25-5	N	Beryllium	0.38	0.41	0.41	mg/kg	
E200.8/NONE	SO	JW-SB25-5	N	Cadmium	0.38	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB25-5	N	Cobalt	0.38	11.2 E	11.2	mg/kg	
E200.8/NONE	SO	JW-SB25-5	N	Chromium	0.77	17.6 N	17.6 J	mg/kg	M
E200.8/NONE	SO	JW-SB25-5	N	Copper	0.77	17.9	17.9	mg/kg	
E200.8/NONE	SO	JW-SB25-5	N	Manganese	3.8	410 D	410	mg/kg	
E200.8/NONE	SO	JW-SB25-5	N	Nickel	0.38	12.8	12.8	mg/kg	
E200.8/NONE	SO	JW-SB25-5	N	Lead	0.38	4.9 N	4.9 J	mg/kg	M
E200.8/NONE	SO	JW-SB25-5	N	Vanadium	19.2	38.1 ND	38.1 J	mg/kg	M
E200.8/NONE	SO	JW-SB25-5	N	Zinc	7.7	65.4 ND	65.4 J	mg/kg	M
E200.8/NONE	SO	JW-SB26-0.5	N	Arsenic	0.40	3.4	3.4	mg/kg	
E200.8/NONE	SO	JW-SB26-0.5	N	Barium	4.0	143 N	143	mg/kg	
E200.8/NONE	SO	JW-SB26-0.5	N	Beryllium	0.40	0.36 J	0.36 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-0.5	N	Cadmium	0.40	0.50	0.50	mg/kg	
E200.8/NONE	SO	JW-SB26-0.5	N	Cobalt	0.40	10.5 E	10.5	mg/kg	
E200.8/NONE	SO	JW-SB26-0.5	N	Chromium	0.79	36.7 N	36.7	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB26-0.5	N	Copper	0.79	25.4	25.4	mg/kg	
E200.8/NONE	SO	JW-SB26-0.5	N	Manganese	4.0	377 D	377	mg/kg	
E200.8/NONE	SO	JW-SB26-0.5	N	Nickel	0.40	15.7	15.7	mg/kg	
E200.8/NONE	SO	JW-SB26-0.5	N	Lead	0.40	71.8 N	71.8	mg/kg	
E200.8/NONE	SO	JW-SB26-0.5	N	Vanadium	2.0	35.0 N	35.0	mg/kg	
E200.8/NONE	SO	JW-SB26-0.5	N	Zinc	7.9	211 ND	211	mg/kg	
E200.8/NONE	SO	JW-SB26-15	N	Arsenic	0.37	1.1	1.1	mg/kg	
E200.8/NONE	SO	JW-SB26-15	N	Barium	3.7	99.2 N	99.2	mg/kg	
E200.8/NONE	SO	JW-SB26-15	N	Beryllium	0.37	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-15	N	Cadmium	0.37	0.058 J	0.058 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-15	N	Cobalt	0.37	7.9 E	7.9	mg/kg	
E200.8/NONE	SO	JW-SB26-15	N	Chromium	0.74	12.1 N	12.1	mg/kg	
E200.8/NONE	SO	JW-SB26-15	N	Copper	0.74	10.6	10.6	mg/kg	
E200.8/NONE	SO	JW-SB26-15	N	Manganese	3.7	267 D	267	mg/kg	
E200.8/NONE	SO	JW-SB26-15	N	Nickel	0.37	9.1	9.1	mg/kg	
E200.8/NONE	SO	JW-SB26-15	N	Lead	0.37	2.5 N	2.5	mg/kg	
E200.8/NONE	SO	JW-SB26-15	N	Vanadium	1.8	28.6 N	28.6	mg/kg	
E200.8/NONE	SO	JW-SB26-15	N	Zinc	0.74	46.2 N	46.2	mg/kg	
E200.8/NONE	SO	JW-SB26-16	FD	Arsenic	0.36	1.1	1.1	mg/kg	
E200.8/NONE	SO	JW-SB26-16	FD	Barium	3.6	95.4 N	95.4	mg/kg	
E200.8/NONE	SO	JW-SB26-16	FD	Beryllium	0.36	0.24 J	0.24 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-16	FD	Cadmium	0.36	0.058 J	0.058 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-16	FD	Cobalt	0.36	7.8 E	7.8	mg/kg	
E200.8/NONE	SO	JW-SB26-16	FD	Chromium	0.72	11.2 N	11.2	mg/kg	
E200.8/NONE	SO	JW-SB26-16	FD	Copper	0.72	10.4	10.4	mg/kg	
E200.8/NONE	SO	JW-SB26-16	FD	Manganese	3.6	269 D	269	mg/kg	
E200.8/NONE	SO	JW-SB26-16	FD	Nickel	0.36	8.7	8.7	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB26-16	FD	Lead	0.36	2.4 N	2.4	mg/kg	
E200.8/NONE	SO	JW-SB26-16	FD	Vanadium	1.8	28.1 N	28.1	mg/kg	
E200.8/NONE	SO	JW-SB26-16	FD	Zinc	0.72	45.9 N	45.9	mg/kg	
E200.8/NONE	SO	JW-SB26-2	N	Arsenic	0.40	1.6	1.6	mg/kg	
E200.8/NONE	SO	JW-SB26-2	N	Barium	4.0	135 N	135	mg/kg	
E200.8/NONE	SO	JW-SB26-2	N	Beryllium	0.40	0.36 J	0.36 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-2	N	Cadmium	0.40	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-2	N	Cobalt	0.40	9.7 E	9.7	mg/kg	
E200.8/NONE	SO	JW-SB26-2	N	Chromium	0.81	17.1 N	17.1	mg/kg	
E200.8/NONE	SO	JW-SB26-2	N	Copper	0.81	17.3	17.3	mg/kg	
E200.8/NONE	SO	JW-SB26-2	N	Manganese	4.0	339 D	339	mg/kg	
E200.8/NONE	SO	JW-SB26-2	N	Nickel	0.40	13.1	13.1	mg/kg	
E200.8/NONE	SO	JW-SB26-2	N	Lead	0.40	10.1 N	10.1	mg/kg	
E200.8/NONE	SO	JW-SB26-2	N	Vanadium	2.0	35.1 N	35.1	mg/kg	
E200.8/NONE	SO	JW-SB26-2	N	Zinc	0.81	70.0 N	70.0	mg/kg	
E200.8/NONE	SO	JW-SB26-25	N	Arsenic	0.43	3.0	3.0	mg/kg	
E200.8/NONE	SO	JW-SB26-25	N	Barium	4.3	203 N	203	mg/kg	
E200.8/NONE	SO	JW-SB26-25	N	Beryllium	0.43	0.49	0.49	mg/kg	
E200.8/NONE	SO	JW-SB26-25	N	Cadmium	0.43	0.21 J	0.21 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-25	N	Cobalt	0.43	13.0 E	13.0	mg/kg	
E200.8/NONE	SO	JW-SB26-25	N	Chromium	0.87	23.4 N	23.4	mg/kg	
E200.8/NONE	SO	JW-SB26-25	N	Copper	0.87	25.3	25.3	mg/kg	
E200.8/NONE	SO	JW-SB26-25	N	Manganese	4.3	440 D	440	mg/kg	
E200.8/NONE	SO	JW-SB26-25	N	Nickel	0.43	18.2	18.2	mg/kg	
E200.8/NONE	SO	JW-SB26-25	N	Lead	0.43	5.2 N	5.2	mg/kg	
E200.8/NONE	SO	JW-SB26-25	N	Vanadium	2.2	46.5 N	46.5	mg/kg	
E200.8/NONE	SO	JW-SB26-25	N	Zinc	0.87	78.4 N	78.4	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB26-35	N	Arsenic	0.39	11.9	11.9	mg/kg	
E200.8/NONE	SO	JW-SB26-35	N	Barium	3.9	86.4 N	86.4	mg/kg	
E200.8/NONE	SO	JW-SB26-35	N	Beryllium	0.39	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-35	N	Cadmium	0.39	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-35	N	Cobalt	0.39	7.7 E	7.7	mg/kg	
E200.8/NONE	SO	JW-SB26-35	N	Chromium	0.79	10.3 N	10.3	mg/kg	
E200.8/NONE	SO	JW-SB26-35	N	Copper	0.79	12.1	12.1	mg/kg	
E200.8/NONE	SO	JW-SB26-35	N	Manganese	3.9	268 D	268	mg/kg	
E200.8/NONE	SO	JW-SB26-35	N	Nickel	0.39	8.2	8.2	mg/kg	
E200.8/NONE	SO	JW-SB26-35	N	Lead	0.39	2.7 N	2.7	mg/kg	
E200.8/NONE	SO	JW-SB26-35	N	Vanadium	2.0	33.6 N	33.6	mg/kg	
E200.8/NONE	SO	JW-SB26-35	N	Zinc	0.79	43.6 N	43.6	mg/kg	
E200.8/NONE	SO	JW-SB26-5	N	Arsenic	0.40	1.5	1.5	mg/kg	
E200.8/NONE	SO	JW-SB26-5	N	Barium	4.0	126 N	126	mg/kg	
E200.8/NONE	SO	JW-SB26-5	N	Beryllium	0.40	0.40 J	0.40	mg/kg	
E200.8/NONE	SO	JW-SB26-5	N	Cadmium	0.40	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB26-5	N	Cobalt	0.40	9.7 E	9.7	mg/kg	
E200.8/NONE	SO	JW-SB26-5	N	Chromium	0.81	16.2 N	16.2	mg/kg	
E200.8/NONE	SO	JW-SB26-5	N	Copper	0.81	16.6	16.6	mg/kg	
E200.8/NONE	SO	JW-SB26-5	N	Manganese	4.0	360 D	360	mg/kg	
E200.8/NONE	SO	JW-SB26-5	N	Nickel	0.40	12.1	12.1	mg/kg	
E200.8/NONE	SO	JW-SB26-5	N	Lead	0.40	4.5 N	4.5	mg/kg	
E200.8/NONE	SO	JW-SB26-5	N	Vanadium	2.0	35.5 N	35.5	mg/kg	
E200.8/NONE	SO	JW-SB26-5	N	Zinc	0.81	58.2 N	58.2	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SQ4

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9SR0, Certified - 4/3/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9SR0

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	18	1
SW7471B/NONE	18	1

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9SR0. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 2 results (1.50%) out of the 133 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

A COC sample ID issue was noted but no data qualifiers were added. No calibration anomalies were noted.

Data qualifiers were added for one field duplicate analyte pair imprecision (D5).

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 11:50:06 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Batch Report

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75179-CC	PB82154	NA	JW-SB/SG13	SO	JW-SB13-0.5	G1528-01	LB75179-S0	1/1	12-Mar-2015 12:30 PM	17-Mar-2015 12:00 PM	17-Mar-2015 1:43 PM	N
	PB82154	NA	JW-SB/SG13	SO	JW-SB13-15	G1528-04	LB75179-S0	1/1	12-Mar-2015 12:45 PM	17-Mar-2015 12:00 PM	17-Mar-2015 2:00 PM	N
	PB82154	NA	JW-SB/SG13	SO	JW-SB13-16	G1528-05	LB75179-S0	1/1	12-Mar-2015 12:50 PM	17-Mar-2015 12:00 PM	17-Mar-2015 2:04 PM	FD
	PB82154	NA	JW-SB/SG13	SO	JW-SB13-2	G1528-02	LB75179-S0	1/1	12-Mar-2015 12:35 PM	17-Mar-2015 12:00 PM	17-Mar-2015 1:52 PM	N
	PB82154	NA	JW-SB/SG13	SO	JW-SB13-25	G1528-06	LB75179-S0	1/1	12-Mar-2015 1:00 PM	17-Mar-2015 12:00 PM	17-Mar-2015 2:08 PM	N
	PB82154	NA	JW-SB/SG13	SO	JW-SB13-35	G1528-07	LB75179-S0	1/1	12-Mar-2015 1:10 PM	17-Mar-2015 12:00 PM	17-Mar-2015 2:12 PM	N
	PB82154	NA	JW-SB/SG13	SO	JW-SB13-5	G1528-03	LB75179-S0	1/1	12-Mar-2015 12:40 PM	17-Mar-2015 12:00 PM	17-Mar-2015 1:56 PM	N
	PB82154	NA	JW-SB/SG14	SO	JW-SB14-0.5	G1528-08	LB75179-S0	1/1	13-Mar-2015 8:40 AM	17-Mar-2015 12:00 PM	17-Mar-2015 2:16 PM	N
	PB82154	NA	JW-SB/SG14	SO	JW-SB14-15	G1528-13	LB75179-S0	1/1	13-Mar-2015 9:40 AM	17-Mar-2015 12:00 PM	17-Mar-2015 2:53 PM	N
	PB82154	NA	JW-SB/SG14	SO	JW-SB14-2	G1528-10	LB75179-S0	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	17-Mar-2015 2:37 PM	LR
	PB82154	NA	JW-SB/SG14	SO	JW-SB14-2	G1528-11	LB75179-S0	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	17-Mar-2015 2:41 PM	MS
	PB82154	NA	JW-SB/SG14	SO	JW-SB14-2	G1528-09	LB75179-S0	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	17-Mar-2015 2:33 PM	N
	PB82154	NA	JW-SB/SG14	SO	JW-SB14-25	G1528-14	LB75179-S0	1/1	13-Mar-2015 9:45 AM	17-Mar-2015 12:00 PM	17-Mar-2015 2:57 PM	N
	PB82154	NA	JW-SB/SG14	SO	JW-SB14-35	G1528-15	LB75179-S0	1/1	13-Mar-2015 10:00 AM	17-Mar-2015 12:00 PM	17-Mar-2015 3:01 PM	N
	PB82154	NA	JW-SB/SG14	SO	JW-SB14-5	G1528-12	LB75179-S0	1/1	13-Mar-2015 9:30 AM	17-Mar-2015 12:00 PM	17-Mar-2015 2:49 PM	N
	PB82154	NA	JW-SB/SG15	SO	JW-SB15-0.5	G1528-16	LB75179-S0	1/1	13-Mar-2015 10:50 AM	17-Mar-2015 12:00 PM	17-Mar-2015 3:05 PM	N
	PB82154	NA	JW-SB/SG15	SO	JW-SB15-15	G1528-19	LB75179-S0	1/1	13-Mar-2015 11:10 AM	17-Mar-2015 12:00 PM	17-Mar-2015 3:17 PM	N
	PB82154	NA	JW-SB/SG15	SO	JW-SB15-2	G1528-17	LB75179-S0	1/1	13-Mar-2015 10:55 AM	17-Mar-2015 12:00 PM	17-Mar-2015 3:09 PM	N
	PB82154	NA	JW-SB/SG15	SO	JW-SB15-25	G1528-20	LB75179-S0	1/1	13-Mar-2015 11:15 AM	17-Mar-2015 12:00 PM	17-Mar-2015 3:21 PM	N
	PB82154	NA	JW-SB/SG15	SO	JW-SB15-35	G1528-21	LB75179-S0	1/1	13-Mar-2015 11:20 AM	17-Mar-2015 12:00 PM	17-Mar-2015 3:25 PM	N
	PB82154	NA	JW-SB/SG15	SO	JW-SB15-5	G1528-18	LB75179-S0	1/1	13-Mar-2015 11:00 AM	17-Mar-2015 12:00 PM	17-Mar-2015 3:13 PM	N
	PB82154	NA	LABQC	SQ	LABQC	PB82154BS	LB75179-S0	1/1	17-Mar-2015 1:39 PM	17-Mar-2015 1:39 PM	17-Mar-2015 1:39 PM	BS

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75179-CC	PB82154	NA	LABQC	SQ	LABQC	PB82154BL	LB75179-S0	1/1	17-Mar-2015 1:35 PM	17-Mar-2015 1:35 PM	17-Mar-2015 1:35 PM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75189-CC	PB82159	NA	JW-SB/SG13	SO	JW-SB13-0.5	G1528-01	LB75189-S0	1/1	12-Mar-2015 12:30 PM	17-Mar-2015 12:00 PM	18-Mar-2015 3:43 PM	N
	PB82159	NA	JW-SB/SG13	SO	JW-SB13-15	G1528-04	LB75189-S0	1/1	12-Mar-2015 12:45 PM	17-Mar-2015 12:00 PM	18-Mar-2015 3:49 PM	N
	PB82159	NA	JW-SB/SG13	SO	JW-SB13-16	G1528-05	LB75189-S0	1/1	12-Mar-2015 12:50 PM	17-Mar-2015 12:00 PM	18-Mar-2015 3:51 PM	FD
	PB82159	NA	JW-SB/SG13	SO	JW-SB13-2	G1528-02	LB75189-S0	1/1	12-Mar-2015 12:35 PM	17-Mar-2015 12:00 PM	18-Mar-2015 3:45 PM	N
	PB82159	NA	JW-SB/SG13	SO	JW-SB13-25	G1528-06	LB75189-S0	1/1	12-Mar-2015 1:00 PM	17-Mar-2015 12:00 PM	18-Mar-2015 3:53 PM	N
	PB82159	NA	JW-SB/SG13	SO	JW-SB13-35	G1528-07	LB75189-S0	1/1	12-Mar-2015 1:10 PM	17-Mar-2015 12:00 PM	18-Mar-2015 3:56 PM	N
	PB82159	NA	JW-SB/SG13	SO	JW-SB13-5	G1528-03	LB75189-S0	1/1	12-Mar-2015 12:40 PM	17-Mar-2015 12:00 PM	18-Mar-2015 3:47 PM	N
	PB82159	NA	JW-SB/SG14	SO	JW-SB14-0.5	G1528-08	LB75189-S0	1/1	13-Mar-2015 8:40 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:58 PM	N
	PB82159	NA	JW-SB/SG14	SO	JW-SB14-15	G1528-13	LB75189-S0	1/1	13-Mar-2015 9:40 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:11 PM	N
	PB82159	NA	JW-SB/SG14	SO	JW-SB14-2	G1528-10	LB75189-S0	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:05 PM	LR
	PB82159	NA	JW-SB/SG14	SO	JW-SB14-2	G1528-11	LB75189-S0	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:07 PM	MS
	PB82159	NA	JW-SB/SG14	SO	JW-SB14-2	G1528-09	LB75189-S0	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:00 PM	N
	PB82159	NA	JW-SB/SG14	SO	JW-SB14-25	G1528-14	LB75189-S0	1/1	13-Mar-2015 9:45 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:13 PM	N
	PB82159	NA	JW-SB/SG14	SO	JW-SB14-35	G1528-15	LB75189-S0	1/1	13-Mar-2015 10:00 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:15 PM	N
	PB82159	NA	JW-SB/SG14	SO	JW-SB14-5	G1528-12	LB75189-S0	1/1	13-Mar-2015 9:30 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:09 PM	N
	PB82159	NA	JW-SB/SG15	SO	JW-SB15-0.5	G1528-16	LB75189-S0	1/1	13-Mar-2015 10:50 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:18 PM	N
	PB82159	NA	JW-SB/SG15	SO	JW-SB15-15	G1528-19	LB75189-S0	1/1	13-Mar-2015 11:10 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:28 PM	N
	PB82159	NA	JW-SB/SG15	SO	JW-SB15-2	G1528-17	LB75189-S0	1/1	13-Mar-2015 10:55 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:24 PM	N
	PB82159	NA	JW-SB/SG15	SO	JW-SB15-25	G1528-20	LB75189-S0	1/1	13-Mar-2015 11:15 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:30 PM	N
	PB82159	NA	JW-SB/SG15	SO	JW-SB15-35	G1528-21	LB75189-S0	1/1	13-Mar-2015 11:20 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:32 PM	N
	PB82159	NA	JW-SB/SG15	SO	JW-SB15-5	G1528-18	LB75189-S0	1/1	13-Mar-2015 11:00 AM	17-Mar-2015 12:00 PM	18-Mar-2015 4:26 PM	N
	PB82159	NA	LABQC	SQ	LABQC	PB82159BL	LB75189-S0	1/1	18-Mar-2015 3:41 PM	18-Mar-2015 3:41 PM	18-Mar-2015 3:41 PM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.7 / METHOD	Field Duplicate RPD	G1528-05 (N)	1 / 1.00	Sodium	74.7	RPD	J/None	< 50	< 100	D5		RPD	

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB13-0.5	N	Sodium	390	305 J	305 J	mg/kg	TR
E200.7/NONE	SO	JW-SB13-15	N	Sodium	429	1260	1260 J	mg/kg	D5
E200.7/NONE	SO	JW-SB13-16	FD	Sodium	400	575	575 J	mg/kg	D5
E200.7/NONE	SO	JW-SB13-2	N	Sodium	379	201 J	201 J	mg/kg	TR
E200.7/NONE	SO	JW-SB13-5	N	Sodium	412	364 J	364 J	mg/kg	TR
E200.7/NONE	SO	JW-SB14-0.5	N	Sodium	376	230 J	230 J	mg/kg	TR
E200.7/NONE	SO	JW-SB15-2	N	Sodium	371	292 J	292 J	mg/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB13-0.5	N	Mercury	0.10	0.041 J	0.041 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-15	N	Mercury	0.10	0.044 J	0.044 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-16	FD	Mercury	0.098	0.034 J	0.034 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-2	N	Mercury	0.10	0.022 J	0.022 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-25	N	Mercury	0.12	0.054 J	0.054 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-35	N	Mercury	0.094	0.023 J	0.023 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-5	N	Mercury	0.10	0.029 J	0.029 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB14-0.5	N	Mercury	0.094	0.034 J	0.034 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB14-15	N	Mercury	0.11	0.050 J	0.050 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB14-2	N	Mercury	0.10	0.052 J	0.052 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB14-25	N	Mercury	0.11	0.089 J	0.089 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB14-35	N	Mercury	0.11	0.044 J	0.044 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB15-0.5	N	Mercury	0.11	0.039 J	0.039 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB15-15	N	Mercury	0.13	0.068 J	0.068 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB15-2	N	Mercury	0.10	0.030 J	0.030 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB15-25	N	Mercury	0.12	0.041 J	0.041 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB15-35	N	Mercury	0.094	0.040 J	0.040 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB15-5	N	Mercury	0.11	0.055 J	0.055 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB13-0.5	N	Aluminum	15.6	9490	9490	mg/kg	
E200.7/NONE	SO	JW-SB13-0.5	N	Calcium	390	6920	6920	mg/kg	
E200.7/NONE	SO	JW-SB13-0.5	N	Iron	7.8	16600 E	16600	mg/kg	
E200.7/NONE	SO	JW-SB13-0.5	N	Potassium	390	3320	3320	mg/kg	
E200.7/NONE	SO	JW-SB13-0.5	N	Magnesium	390	5360	5360	mg/kg	
E200.7/NONE	SO	JW-SB13-0.5	N	Sodium	390	305 J	305 J	mg/kg	TR
E200.7/NONE	SO	JW-SB13-15	N	Aluminum	17.2	14200	14200	mg/kg	
E200.7/NONE	SO	JW-SB13-15	N	Calcium	429	9720	9720	mg/kg	
E200.7/NONE	SO	JW-SB13-15	N	Iron	8.6	22900 E	22900	mg/kg	
E200.7/NONE	SO	JW-SB13-15	N	Potassium	429	4290	4290	mg/kg	
E200.7/NONE	SO	JW-SB13-15	N	Magnesium	429	8040	8040	mg/kg	
E200.7/NONE	SO	JW-SB13-15	N	Sodium	429	1260	1260 J	mg/kg	D5
E200.7/NONE	SO	JW-SB13-16	FD	Aluminum	16.0	10400	10400	mg/kg	
E200.7/NONE	SO	JW-SB13-16	FD	Calcium	400	8410	8410	mg/kg	
E200.7/NONE	SO	JW-SB13-16	FD	Iron	8.0	17400 E	17400	mg/kg	
E200.7/NONE	SO	JW-SB13-16	FD	Potassium	400	3420	3420	mg/kg	
E200.7/NONE	SO	JW-SB13-16	FD	Magnesium	400	5840	5840	mg/kg	
E200.7/NONE	SO	JW-SB13-16	FD	Sodium	400	575	575 J	mg/kg	D5
E200.7/NONE	SO	JW-SB13-2	N	Aluminum	15.1	8110	8110	mg/kg	
E200.7/NONE	SO	JW-SB13-2	N	Calcium	379	4440	4440	mg/kg	
E200.7/NONE	SO	JW-SB13-2	N	Iron	7.6	14900 E	14900	mg/kg	
E200.7/NONE	SO	JW-SB13-2	N	Potassium	379	3420	3420	mg/kg	
E200.7/NONE	SO	JW-SB13-2	N	Magnesium	379	4750	4750	mg/kg	
E200.7/NONE	SO	JW-SB13-2	N	Sodium	379	201 J	201 J	mg/kg	TR
E200.7/NONE	SO	JW-SB13-25	N	Aluminum	17.0	16100	16100	mg/kg	
E200.7/NONE	SO	JW-SB13-25	N	Calcium	425	14100	14100	mg/kg	
E200.7/NONE	SO	JW-SB13-25	N	Iron	8.5	26500 E	26500	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB13-25	N	Potassium	425	5330	5330	mg/kg	
E200.7/NONE	SO	JW-SB13-25	N	Magnesium	425	9720	9720	mg/kg	
E200.7/NONE	SO	JW-SB13-25	N	Sodium	425	1320	1320	mg/kg	
E200.7/NONE	SO	JW-SB13-35	N	Aluminum	15.0	7460	7460	mg/kg	
E200.7/NONE	SO	JW-SB13-35	N	Calcium	375	7150	7150	mg/kg	
E200.7/NONE	SO	JW-SB13-35	N	Iron	7.5	13900 E	13900	mg/kg	
E200.7/NONE	SO	JW-SB13-35	N	Potassium	375	2380	2380	mg/kg	
E200.7/NONE	SO	JW-SB13-35	N	Magnesium	375	4540	4540	mg/kg	
E200.7/NONE	SO	JW-SB13-35	N	Sodium	375	442	442	mg/kg	
E200.7/NONE	SO	JW-SB13-5	N	Aluminum	16.5	12600	12600	mg/kg	
E200.7/NONE	SO	JW-SB13-5	N	Calcium	412	6930	6930	mg/kg	
E200.7/NONE	SO	JW-SB13-5	N	Iron	8.2	20800 E	20800	mg/kg	
E200.7/NONE	SO	JW-SB13-5	N	Potassium	412	4020	4020	mg/kg	
E200.7/NONE	SO	JW-SB13-5	N	Magnesium	412	6280	6280	mg/kg	
E200.7/NONE	SO	JW-SB13-5	N	Sodium	412	364 J	364 J	mg/kg	TR
E200.7/NONE	SO	JW-SB14-0.5	N	Aluminum	15.0	5870	5870	mg/kg	
E200.7/NONE	SO	JW-SB14-0.5	N	Calcium	376	4580	4580	mg/kg	
E200.7/NONE	SO	JW-SB14-0.5	N	Iron	7.5	11400 E	11400	mg/kg	
E200.7/NONE	SO	JW-SB14-0.5	N	Potassium	376	1300	1300	mg/kg	
E200.7/NONE	SO	JW-SB14-0.5	N	Magnesium	376	3270	3270	mg/kg	
E200.7/NONE	SO	JW-SB14-0.5	N	Sodium	376	230 J	230 J	mg/kg	TR
E200.7/NONE	SO	JW-SB14-15	N	Aluminum	19.1	16800	16800	mg/kg	
E200.7/NONE	SO	JW-SB14-15	N	Calcium	478	9220	9220	mg/kg	
E200.7/NONE	SO	JW-SB14-15	N	Iron	9.6	27200 E	27200	mg/kg	
E200.7/NONE	SO	JW-SB14-15	N	Potassium	478	5860	5860	mg/kg	
E200.7/NONE	SO	JW-SB14-15	N	Magnesium	478	10300	10300	mg/kg	
E200.7/NONE	SO	JW-SB14-15	N	Sodium	478	2000	2000	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB14-2	N	Aluminum	15.0	10200	10200	mg/kg	
E200.7/NONE	SO	JW-SB14-2	N	Calcium	375	6370	6370	mg/kg	
E200.7/NONE	SO	JW-SB14-2	N	Iron	7.5	17600 E	17600	mg/kg	
E200.7/NONE	SO	JW-SB14-2	N	Potassium	375	3890	3890	mg/kg	
E200.7/NONE	SO	JW-SB14-2	N	Magnesium	375	5720	5720	mg/kg	
E200.7/NONE	SO	JW-SB14-2	N	Sodium	375	402	402	mg/kg	
E200.7/NONE	SO	JW-SB14-25	N	Aluminum	17.6	18800	18800	mg/kg	
E200.7/NONE	SO	JW-SB14-25	N	Calcium	440	13200	13200	mg/kg	
E200.7/NONE	SO	JW-SB14-25	N	Iron	8.8	30000 E	30000	mg/kg	
E200.7/NONE	SO	JW-SB14-25	N	Potassium	440	5920	5920	mg/kg	
E200.7/NONE	SO	JW-SB14-25	N	Magnesium	440	11000	11000	mg/kg	
E200.7/NONE	SO	JW-SB14-25	N	Sodium	440	1970	1970	mg/kg	
E200.7/NONE	SO	JW-SB14-35	N	Aluminum	15.6	8310	8310	mg/kg	
E200.7/NONE	SO	JW-SB14-35	N	Calcium	390	9960	9960	mg/kg	
E200.7/NONE	SO	JW-SB14-35	N	Iron	7.8	15500 E	15500	mg/kg	
E200.7/NONE	SO	JW-SB14-35	N	Potassium	390	2800	2800	mg/kg	
E200.7/NONE	SO	JW-SB14-35	N	Magnesium	390	5120	5120	mg/kg	
E200.7/NONE	SO	JW-SB14-35	N	Sodium	390	525	525	mg/kg	
E200.7/NONE	SO	JW-SB14-5	N	Aluminum	15.9	11400	11400	mg/kg	
E200.7/NONE	SO	JW-SB14-5	N	Calcium	398	6700	6700	mg/kg	
E200.7/NONE	SO	JW-SB14-5	N	Iron	8.0	18900 E	18900	mg/kg	
E200.7/NONE	SO	JW-SB14-5	N	Potassium	398	3620	3620	mg/kg	
E200.7/NONE	SO	JW-SB14-5	N	Magnesium	398	5770	5770	mg/kg	
E200.7/NONE	SO	JW-SB14-5	N	Sodium	398	421	421	mg/kg	
E200.7/NONE	SO	JW-SB15-0.5	N	Aluminum	15.4	10300	10300	mg/kg	
E200.7/NONE	SO	JW-SB15-0.5	N	Calcium	384	8850	8850	mg/kg	
E200.7/NONE	SO	JW-SB15-0.5	N	Iron	7.7	17800 E	17800	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB15-0.5	N	Potassium	384	3850	3850	mg/kg	
E200.7/NONE	SO	JW-SB15-0.5	N	Magnesium	384	6280	6280	mg/kg	
E200.7/NONE	SO	JW-SB15-0.5	N	Sodium	384	437	437	mg/kg	
E200.7/NONE	SO	JW-SB15-15	N	Aluminum	17.5	16100	16100	mg/kg	
E200.7/NONE	SO	JW-SB15-15	N	Calcium	437	11400	11400	mg/kg	
E200.7/NONE	SO	JW-SB15-15	N	Iron	8.7	25700 E	25700	mg/kg	
E200.7/NONE	SO	JW-SB15-15	N	Potassium	437	5450	5450	mg/kg	
E200.7/NONE	SO	JW-SB15-15	N	Magnesium	437	9860	9860	mg/kg	
E200.7/NONE	SO	JW-SB15-15	N	Sodium	437	1580	1580	mg/kg	
E200.7/NONE	SO	JW-SB15-2	N	Aluminum	14.8	9250	9250	mg/kg	
E200.7/NONE	SO	JW-SB15-2	N	Calcium	371	5310	5310	mg/kg	
E200.7/NONE	SO	JW-SB15-2	N	Iron	7.4	16700 E	16700	mg/kg	
E200.7/NONE	SO	JW-SB15-2	N	Potassium	371	3910	3910	mg/kg	
E200.7/NONE	SO	JW-SB15-2	N	Magnesium	371	5380	5380	mg/kg	
E200.7/NONE	SO	JW-SB15-2	N	Sodium	371	292 J	292 J	mg/kg	TR
E200.7/NONE	SO	JW-SB15-25	N	Aluminum	18.4	17600	17600	mg/kg	
E200.7/NONE	SO	JW-SB15-25	N	Calcium	459	16100	16100	mg/kg	
E200.7/NONE	SO	JW-SB15-25	N	Iron	9.2	27600 E	27600	mg/kg	
E200.7/NONE	SO	JW-SB15-25	N	Potassium	459	4840	4840	mg/kg	
E200.7/NONE	SO	JW-SB15-25	N	Magnesium	459	9850	9850	mg/kg	
E200.7/NONE	SO	JW-SB15-25	N	Sodium	459	2130	2130	mg/kg	
E200.7/NONE	SO	JW-SB15-35	N	Aluminum	15.3	7350	7350	mg/kg	
E200.7/NONE	SO	JW-SB15-35	N	Calcium	382	7150	7150	mg/kg	
E200.7/NONE	SO	JW-SB15-35	N	Iron	7.6	13600 E	13600	mg/kg	
E200.7/NONE	SO	JW-SB15-35	N	Potassium	382	2390	2390	mg/kg	
E200.7/NONE	SO	JW-SB15-35	N	Magnesium	382	4550	4550	mg/kg	
E200.7/NONE	SO	JW-SB15-35	N	Sodium	382	464	464	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB15-5	N	Aluminum	16.0	12200	12200	mg/kg	
E200.7/NONE	SO	JW-SB15-5	N	Calcium	401	7280	7280	mg/kg	
E200.7/NONE	SO	JW-SB15-5	N	Iron	8.0	20200 E	20200	mg/kg	
E200.7/NONE	SO	JW-SB15-5	N	Potassium	401	3800	3800	mg/kg	
E200.7/NONE	SO	JW-SB15-5	N	Magnesium	401	6080	6080	mg/kg	
E200.7/NONE	SO	JW-SB15-5	N	Sodium	401	429	429	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB13-0.5	N	Mercury	0.10	0.041 J	0.041 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-15	N	Mercury	0.10	0.044 J	0.044 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-16	FD	Mercury	0.098	0.034 J	0.034 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-2	N	Mercury	0.10	0.022 J	0.022 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-25	N	Mercury	0.12	0.054 J	0.054 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-35	N	Mercury	0.094	0.023 J	0.023 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB13-5	N	Mercury	0.10	0.029 J	0.029 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB14-0.5	N	Mercury	0.094	0.034 J	0.034 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB14-15	N	Mercury	0.11	0.050 J	0.050 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB14-2	N	Mercury	0.10	0.052 J	0.052 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB14-25	N	Mercury	0.11	0.089 J	0.089 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB14-35	N	Mercury	0.11	0.044 J	0.044 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB14-5	N	Mercury	0.10	0.25	0.25	mg/kg	
SW7471B/NONE	SO	JW-SB15-0.5	N	Mercury	0.11	0.039 J	0.039 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB15-15	N	Mercury	0.13	0.068 J	0.068 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB15-2	N	Mercury	0.10	0.030 J	0.030 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB15-25	N	Mercury	0.12	0.041 J	0.041 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB15-35	N	Mercury	0.094	0.040 J	0.040 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB15-5	N	Mercury	0.11	0.055 J	0.055 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SR0

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9SR1, Certified - 4/13/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9SR1

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.8/NONE	18	1

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9SR1. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 7 results (2.30%) out of the 304 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

No COC receipt issues or calibration anomalies were noted.

Data qualifiers were added for minor serial dilution (A) and poor matix spike recoveries (M).

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 11:56:48 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75212-CC	PB82155	NA	JW-SB/SG13	SO	JW-SB13-0.5	G1529-01	LB75212-S0	1/1	12-Mar-2015 12:30 PM	17-Mar-2015 12:00 PM	18-Mar-2015 9:15 PM	N
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-0.5	G1529-01	LB75212-S0	1/10	12-Mar-2015 12:30 PM	17-Mar-2015 12:00 PM	18-Mar-2015 9:23 PM	N
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-15	G1529-04	LB75212-S0	1/1	12-Mar-2015 12:45 PM	17-Mar-2015 12:00 PM	18-Mar-2015 10:02 PM	N
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-15	G1529-04	LB75212-S0	1/10	12-Mar-2015 12:45 PM	17-Mar-2015 12:00 PM	18-Mar-2015 10:10 PM	N
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-16	G1529-05	LB75212-S0	1/1	12-Mar-2015 12:50 PM	17-Mar-2015 12:00 PM	18-Mar-2015 10:42 PM	FD
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-16	G1529-05	LB75212-S0	1/10	12-Mar-2015 12:50 PM	17-Mar-2015 12:00 PM	18-Mar-2015 10:50 PM	FD
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-2	G1529-02	LB75212-S0	1/1	12-Mar-2015 12:35 PM	17-Mar-2015 12:00 PM	18-Mar-2015 9:31 PM	N
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-2	G1529-02	LB75212-S0	1/10	12-Mar-2015 12:35 PM	17-Mar-2015 12:00 PM	18-Mar-2015 9:39 PM	N
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-25	G1529-06	LB75212-S0	1/1	12-Mar-2015 1:00 PM	17-Mar-2015 12:00 PM	18-Mar-2015 10:58 PM	N
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-25	G1529-06	LB75212-S0	1/10	12-Mar-2015 1:00 PM	17-Mar-2015 12:00 PM	18-Mar-2015 11:06 PM	N
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-35	G1529-07	LB75212-S0	1/1	12-Mar-2015 1:10 PM	17-Mar-2015 12:00 PM	18-Mar-2015 11:14 PM	N
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-35	G1529-07	LB75212-S0	1/10	12-Mar-2015 1:10 PM	17-Mar-2015 12:00 PM	18-Mar-2015 11:22 PM	N
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-5	G1529-03	LB75212-S0	1/1	12-Mar-2015 12:40 PM	17-Mar-2015 12:00 PM	18-Mar-2015 9:46 PM	N
	PB82155	NA	JW-SB/SG13	SO	JW-SB13-5	G1529-03	LB75212-S0	1/10	12-Mar-2015 12:40 PM	17-Mar-2015 12:00 PM	18-Mar-2015 9:54 PM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-0.5	G1529-08	LB75212-S0	1/1	13-Mar-2015 8:40 AM	17-Mar-2015 12:00 PM	18-Mar-2015 11:30 PM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-0.5	G1529-08	LB75212-S0	1/10	13-Mar-2015 8:40 AM	17-Mar-2015 12:00 PM	18-Mar-2015 11:38 PM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-15	G1529-13	LB75212-S0	1/1	13-Mar-2015 9:40 AM	17-Mar-2015 12:00 PM	19-Mar-2015 1:29 AM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-15	G1529-13	LB75212-S0	1/10	13-Mar-2015 9:40 AM	17-Mar-2015 12:00 PM	19-Mar-2015 1:37 AM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-2	G1529-10	LB75212-S0	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	19-Mar-2015 12:25 AM	LR
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-2	G1529-10	LB75212-S0	1/10	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	19-Mar-2015 12:33 AM	LR
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-2	G1529-11	LB75212-S0	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	19-Mar-2015 12:57 AM	MS

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75212-CC	PB82155	NA	JW-SB/SG14	SO	JW-SB14-2	G1529-11	LB75212-S0	1/10	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	19-Mar-2015 1:05 AM	MS
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-2	G1529-09	LB75212-S0	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	18-Mar-2015 11:46 PM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-2	G1529-09	LB75212-S0	1/10	13-Mar-2015 9:20 AM	17-Mar-2015 12:00 PM	18-Mar-2015 11:53 PM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-25	G1529-14	LB75212-S0	1/1	13-Mar-2015 9:45 AM	17-Mar-2015 12:00 PM	19-Mar-2015 2:09 AM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-25	G1529-14	LB75212-S0	1/10	13-Mar-2015 9:45 AM	17-Mar-2015 12:00 PM	19-Mar-2015 2:17 AM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-35	G1529-15	LB75212-S0	1/1	13-Mar-2015 10:00 AM	17-Mar-2015 12:00 PM	19-Mar-2015 2:25 AM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-35	G1529-15	LB75212-S0	1/10	13-Mar-2015 10:00 AM	17-Mar-2015 12:00 PM	19-Mar-2015 2:32 AM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-5	G1529-12	LB75212-S0	1/1	13-Mar-2015 9:30 AM	17-Mar-2015 12:00 PM	19-Mar-2015 1:13 AM	N
	PB82155	NA	JW-SB/SG14	SO	JW-SB14-5	G1529-12	LB75212-S0	1/10	13-Mar-2015 9:30 AM	17-Mar-2015 12:00 PM	19-Mar-2015 1:21 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-0.5	G1529-16	LB75212-S0	1/1	13-Mar-2015 10:50 AM	17-Mar-2015 12:00 PM	19-Mar-2015 2:40 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-0.5	G1529-16	LB75212-S0	1/10	13-Mar-2015 10:50 AM	17-Mar-2015 12:00 PM	19-Mar-2015 2:48 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-15	G1529-19	LB75212-S0	1/1	13-Mar-2015 11:10 AM	17-Mar-2015 12:00 PM	19-Mar-2015 3:52 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-15	G1529-19	LB75212-S0	1/10	13-Mar-2015 11:10 AM	17-Mar-2015 12:00 PM	19-Mar-2015 4:00 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-2	G1529-17	LB75212-S0	1/1	13-Mar-2015 10:55 AM	17-Mar-2015 12:00 PM	19-Mar-2015 2:56 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-2	G1529-17	LB75212-S0	1/10	13-Mar-2015 10:55 AM	17-Mar-2015 12:00 PM	19-Mar-2015 3:04 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-25	G1529-20	LB75212-S0	1/1	13-Mar-2015 11:15 AM	17-Mar-2015 12:00 PM	19-Mar-2015 4:08 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-25	G1529-20	LB75212-S0	1/10	13-Mar-2015 11:15 AM	17-Mar-2015 12:00 PM	19-Mar-2015 4:16 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-35	G1529-21	LB75212-S0	1/1	13-Mar-2015 11:20 AM	17-Mar-2015 12:00 PM	19-Mar-2015 4:24 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-35	G1529-21	LB75212-S0	1/10	13-Mar-2015 11:20 AM	17-Mar-2015 12:00 PM	19-Mar-2015 4:32 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-5	G1529-18	LB75212-S0	1/1	13-Mar-2015 11:00 AM	17-Mar-2015 12:00 PM	19-Mar-2015 3:12 AM	N
	PB82155	NA	JW-SB/SG15	SO	JW-SB15-5	G1529-18	LB75212-S0	1/10	13-Mar-2015 11:00 AM	17-Mar-2015 12:00 PM	19-Mar-2015 3:20 AM	N
	PB82155	NA	LABQC	SQ	LABQC	PB82155BS	LB75212-S0	1/1	17-Mar-2015 12:00 PM	17-Mar-2015 12:00 PM	18-Mar-2015 9:07 PM	BS

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75212-CC	PB82155	NA	LABQC	SQ	LABQC	PB82155BL	LB75212-S0	1/1	17-Mar-2015 12:00 PM	17-Mar-2015 12:00 PM	18-Mar-2015 9:01 PM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.8 / METHOD	MS Recovery	JW-SB14-2 (MS)	1 / 1.00	Barium	127	Percent	J/None	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB14-2 (MS)	1 / 1.00	Chromium	133	Percent	J/None	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB14-2 (MS)	1 / 1.00	Lead	4400	Percent	J/None	75 - 125	50 - 135	M	Spike amount Insignificant	4.00	
E200.8 / METHOD	MS Recovery	JW-SB14-2 (MS)	1 / 10.00	Manganese	327	Percent	J/None	75 - 125	50 - 135	M	Spike amount Insignificant	4.00	
E200.8 / METHOD	MS Recovery	JW-SB14-2 (MS)	1 / 1.00	Vanadium	133	Percent	J/None	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB14-2 (MS)	1 / 1.00	Zinc	145	Percent	J/None	75 - 125	50 - 135	M			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB13-0.5	N	Beryllium	0.37	0.32 JE	0.32 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-15	N	Cadmium	0.41	0.23 J	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-16	FD	Beryllium	0.40	0.36 JE	0.36 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-16	FD	Cadmium	0.40	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-2	N	Beryllium	0.38	0.25 JE	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-2	N	Cadmium	0.38	0.10 J	0.10 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-25	N	Cadmium	0.46	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-35	N	Beryllium	0.41	0.25 JE	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-35	N	Cadmium	0.41	0.051 J	0.051 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-5	N	Cadmium	0.42	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-0.5	N	Beryllium	0.38	0.20 JE	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-0.5	N	Cadmium	0.38	0.036 J	0.036 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-15	N	Cadmium	0.47	0.23 J	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-2	N	Barium	4.0	116 N	116 J	mg/kg	M
E200.8/NONE	SO	JW-SB14-2	N	Beryllium	0.40	0.32 JE	0.32 J	mg/kg	A/TR
E200.8/NONE	SO	JW-SB14-2	N	Cadmium	0.40	0.14 J	0.14 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-2	N	Chromium	0.80	15.4 N	15.4 J	mg/kg	M
E200.8/NONE	SO	JW-SB14-2	N	Cobalt	0.40	9.3 E	9.3 J	mg/kg	A
E200.8/NONE	SO	JW-SB14-2	N	Lead	0.40	6.4 N	6.4 J	mg/kg	M
E200.8/NONE	SO	JW-SB14-2	N	Vanadium	2.0	34.9 N	34.9 J	mg/kg	M
E200.8/NONE	SO	JW-SB14-2	N	Zinc	0.80	61.3 N	61.3 J	mg/kg	M
E200.8/NONE	SO	JW-SB14-25	N	Cadmium	0.46	0.29 J	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-35	N	Beryllium	0.38	0.26 JE	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-35	N	Cadmium	0.38	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-5	N	Cadmium	0.38	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-0.5	N	Beryllium	0.39	0.36 JE	0.36 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-0.5	N	Cadmium	0.39	0.29 J	0.29 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB15-15	N	Cadmium	0.43	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-2	N	Beryllium	0.38	0.30 JE	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-2	N	Cadmium	0.38	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-25	N	Cadmium	0.46	0.23 J	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-35	N	Beryllium	0.40	0.23 JE	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-35	N	Cadmium	0.40	0.058 J	0.058 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-5	N	Beryllium	0.41	0.20 JE	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-5	N	Cadmium	0.41	0.093 J	0.093 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB13-0.5	N	Arsenic	0.37	1.3	1.3	mg/kg	
E200.8/NONE	SO	JW-SB13-0.5	N	Barium	3.7	106 N	106	mg/kg	
E200.8/NONE	SO	JW-SB13-0.5	N	Beryllium	0.37	0.32 JE	0.32 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-0.5	N	Cadmium	0.37	0.68	0.68	mg/kg	
E200.8/NONE	SO	JW-SB13-0.5	N	Cobalt	0.37	8.5 E	8.5	mg/kg	
E200.8/NONE	SO	JW-SB13-0.5	N	Chromium	0.74	15.1 N	15.1	mg/kg	
E200.8/NONE	SO	JW-SB13-0.5	N	Copper	0.74	13.8	13.8	mg/kg	
E200.8/NONE	SO	JW-SB13-0.5	N	Manganese	3.7	400 D	400	mg/kg	
E200.8/NONE	SO	JW-SB13-0.5	N	Nickel	0.37	10.4	10.4	mg/kg	
E200.8/NONE	SO	JW-SB13-0.5	N	Lead	0.37	24.4 N	24.4	mg/kg	
E200.8/NONE	SO	JW-SB13-0.5	N	Vanadium	1.9	30.8 N	30.8	mg/kg	
E200.8/NONE	SO	JW-SB13-0.5	N	Zinc	7.4	1090 ND	1090	mg/kg	
E200.8/NONE	SO	JW-SB13-15	N	Arsenic	0.41	2.3	2.3	mg/kg	
E200.8/NONE	SO	JW-SB13-15	N	Barium	4.1	164 N	164	mg/kg	
E200.8/NONE	SO	JW-SB13-15	N	Beryllium	0.41	0.52 E	0.52	mg/kg	
E200.8/NONE	SO	JW-SB13-15	N	Cadmium	0.41	0.23 J	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-15	N	Cobalt	0.41	12.9 E	12.9	mg/kg	
E200.8/NONE	SO	JW-SB13-15	N	Chromium	0.82	24.1 N	24.1	mg/kg	
E200.8/NONE	SO	JW-SB13-15	N	Copper	0.82	24.9	24.9	mg/kg	
E200.8/NONE	SO	JW-SB13-15	N	Manganese	4.1	498 D	498	mg/kg	
E200.8/NONE	SO	JW-SB13-15	N	Nickel	0.41	17.9	17.9	mg/kg	
E200.8/NONE	SO	JW-SB13-15	N	Lead	0.41	5.4 N	5.4	mg/kg	
E200.8/NONE	SO	JW-SB13-15	N	Vanadium	2.0	49.3 N	49.3	mg/kg	
E200.8/NONE	SO	JW-SB13-15	N	Zinc	0.82	79.6 N	79.6	mg/kg	
E200.8/NONE	SO	JW-SB13-16	FD	Arsenic	0.40	1.7	1.7	mg/kg	
E200.8/NONE	SO	JW-SB13-16	FD	Barium	4.0	114 N	114	mg/kg	
E200.8/NONE	SO	JW-SB13-16	FD	Beryllium	0.40	0.36 JE	0.36 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB13-16	FD	Cadmium	0.40	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-16	FD	Cobalt	0.40	9.6 E	9.6	mg/kg	
E200.8/NONE	SO	JW-SB13-16	FD	Chromium	0.80	16.2 N	16.2	mg/kg	
E200.8/NONE	SO	JW-SB13-16	FD	Copper	0.80	16.7	16.7	mg/kg	
E200.8/NONE	SO	JW-SB13-16	FD	Manganese	4.0	355 D	355	mg/kg	
E200.8/NONE	SO	JW-SB13-16	FD	Nickel	0.40	12.2	12.2	mg/kg	
E200.8/NONE	SO	JW-SB13-16	FD	Lead	0.40	5.6 N	5.6	mg/kg	
E200.8/NONE	SO	JW-SB13-16	FD	Vanadium	2.0	34.6 N	34.6	mg/kg	
E200.8/NONE	SO	JW-SB13-16	FD	Zinc	0.80	85.9 N	85.9	mg/kg	
E200.8/NONE	SO	JW-SB13-2	N	Arsenic	0.38	1.1	1.1	mg/kg	
E200.8/NONE	SO	JW-SB13-2	N	Barium	3.8	96.0 N	96.0	mg/kg	
E200.8/NONE	SO	JW-SB13-2	N	Beryllium	0.38	0.25 JE	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-2	N	Cadmium	0.38	0.10 J	0.10 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-2	N	Cobalt	0.38	7.9 E	7.9	mg/kg	
E200.8/NONE	SO	JW-SB13-2	N	Chromium	0.77	11.0 N	11.0	mg/kg	
E200.8/NONE	SO	JW-SB13-2	N	Copper	0.77	10.8	10.8	mg/kg	
E200.8/NONE	SO	JW-SB13-2	N	Manganese	3.8	274 D	274	mg/kg	
E200.8/NONE	SO	JW-SB13-2	N	Nickel	0.38	8.8	8.8	mg/kg	
E200.8/NONE	SO	JW-SB13-2	N	Lead	0.38	4.5 N	4.5	mg/kg	
E200.8/NONE	SO	JW-SB13-2	N	Vanadium	1.9	28.2 N	28.2	mg/kg	
E200.8/NONE	SO	JW-SB13-2	N	Zinc	0.77	50.6 N	50.6	mg/kg	
E200.8/NONE	SO	JW-SB13-25	N	Arsenic	0.46	4.2	4.2	mg/kg	
E200.8/NONE	SO	JW-SB13-25	N	Barium	4.6	197 N	197	mg/kg	
E200.8/NONE	SO	JW-SB13-25	N	Beryllium	0.46	0.60 E	0.60	mg/kg	
E200.8/NONE	SO	JW-SB13-25	N	Cadmium	0.46	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-25	N	Cobalt	0.46	15.3 E	15.3	mg/kg	
E200.8/NONE	SO	JW-SB13-25	N	Chromium	0.91	27.5 N	27.5	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB13-25	N	Copper	0.91	31.6	31.6	mg/kg	
E200.8/NONE	SO	JW-SB13-25	N	Manganese	4.6	561 D	561	mg/kg	
E200.8/NONE	SO	JW-SB13-25	N	Nickel	0.46	20.8	20.8	mg/kg	
E200.8/NONE	SO	JW-SB13-25	N	Lead	0.46	5.3 N	5.3	mg/kg	
E200.8/NONE	SO	JW-SB13-25	N	Vanadium	2.3	59.4 N	59.4	mg/kg	
E200.8/NONE	SO	JW-SB13-25	N	Zinc	0.91	91.0 N	91.0	mg/kg	
E200.8/NONE	SO	JW-SB13-35	N	Arsenic	0.41	8.8	8.8	mg/kg	
E200.8/NONE	SO	JW-SB13-35	N	Barium	4.1	82.6 N	82.6	mg/kg	
E200.8/NONE	SO	JW-SB13-35	N	Beryllium	0.41	0.25 JE	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-35	N	Cadmium	0.41	0.051 J	0.051 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-35	N	Cobalt	0.41	7.3 E	7.3	mg/kg	
E200.8/NONE	SO	JW-SB13-35	N	Chromium	0.81	9.8 N	9.8	mg/kg	
E200.8/NONE	SO	JW-SB13-35	N	Copper	0.81	9.4	9.4	mg/kg	
E200.8/NONE	SO	JW-SB13-35	N	Manganese	4.1	270 D	270	mg/kg	
E200.8/NONE	SO	JW-SB13-35	N	Nickel	0.41	8.5	8.5	mg/kg	
E200.8/NONE	SO	JW-SB13-35	N	Lead	0.41	2.4 N	2.4	mg/kg	
E200.8/NONE	SO	JW-SB13-35	N	Vanadium	2.0	27.8 N	27.8	mg/kg	
E200.8/NONE	SO	JW-SB13-35	N	Zinc	0.81	40.3 N	40.3	mg/kg	
E200.8/NONE	SO	JW-SB13-5	N	Arsenic	0.42	2.0	2.0	mg/kg	
E200.8/NONE	SO	JW-SB13-5	N	Barium	4.2	150 N	150	mg/kg	
E200.8/NONE	SO	JW-SB13-5	N	Beryllium	0.42	0.50 E	0.50	mg/kg	
E200.8/NONE	SO	JW-SB13-5	N	Cadmium	0.42	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB13-5	N	Cobalt	0.42	11.6 E	11.6	mg/kg	
E200.8/NONE	SO	JW-SB13-5	N	Chromium	0.84	19.6 N	19.6	mg/kg	
E200.8/NONE	SO	JW-SB13-5	N	Copper	0.84	21.0	21.0	mg/kg	
E200.8/NONE	SO	JW-SB13-5	N	Manganese	4.2	450 D	450	mg/kg	
E200.8/NONE	SO	JW-SB13-5	N	Nickel	0.42	14.9	14.9	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB13-5	N	Lead	0.42	5.4 N	5.4	mg/kg	
E200.8/NONE	SO	JW-SB13-5	N	Vanadium	2.1	43.8 N	43.8	mg/kg	
E200.8/NONE	SO	JW-SB13-5	N	Zinc	0.84	68.6 N	68.6	mg/kg	
E200.8/NONE	SO	JW-SB14-0.5	N	Arsenic	0.38	5.6	5.6	mg/kg	
E200.8/NONE	SO	JW-SB14-0.5	N	Barium	3.8	92.6 N	92.6	mg/kg	
E200.8/NONE	SO	JW-SB14-0.5	N	Beryllium	0.38	0.20 JE	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-0.5	N	Cadmium	0.38	0.036 J	0.036 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-0.5	N	Cobalt	0.38	5.8 E	5.8	mg/kg	
E200.8/NONE	SO	JW-SB14-0.5	N	Chromium	0.76	9.0 N	9.0	mg/kg	
E200.8/NONE	SO	JW-SB14-0.5	N	Copper	0.76	17.5	17.5	mg/kg	
E200.8/NONE	SO	JW-SB14-0.5	N	Manganese	3.8	262 D	262	mg/kg	
E200.8/NONE	SO	JW-SB14-0.5	N	Nickel	0.38	8.8	8.8	mg/kg	
E200.8/NONE	SO	JW-SB14-0.5	N	Lead	0.38	3.9 N	3.9	mg/kg	
E200.8/NONE	SO	JW-SB14-0.5	N	Vanadium	1.9	19.2 N	19.2	mg/kg	
E200.8/NONE	SO	JW-SB14-0.5	N	Zinc	0.76	30.8 N	30.8	mg/kg	
E200.8/NONE	SO	JW-SB14-15	N	Arsenic	0.47	2.3	2.3	mg/kg	
E200.8/NONE	SO	JW-SB14-15	N	Barium	4.7	202 N	202	mg/kg	
E200.8/NONE	SO	JW-SB14-15	N	Beryllium	0.47	0.57 E	0.57	mg/kg	
E200.8/NONE	SO	JW-SB14-15	N	Cadmium	0.47	0.23 J	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-15	N	Cobalt	0.47	15.5 E	15.5	mg/kg	
E200.8/NONE	SO	JW-SB14-15	N	Chromium	0.94	27.2 N	27.2	mg/kg	
E200.8/NONE	SO	JW-SB14-15	N	Copper	0.94	27.3	27.3	mg/kg	
E200.8/NONE	SO	JW-SB14-15	N	Manganese	4.7	553 D	553	mg/kg	
E200.8/NONE	SO	JW-SB14-15	N	Nickel	0.47	21.0	21.0	mg/kg	
E200.8/NONE	SO	JW-SB14-15	N	Lead	0.47	5.3 N	5.3	mg/kg	
E200.8/NONE	SO	JW-SB14-15	N	Vanadium	2.4	57.5 N	57.5	mg/kg	
E200.8/NONE	SO	JW-SB14-15	N	Zinc	0.94	95.4 N	95.4	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB14-2	N	Arsenic	0.40	1.5	1.5	mg/kg	
E200.8/NONE	SO	JW-SB14-2	N	Barium	4.0	116 N	116 J	mg/kg	M
E200.8/NONE	SO	JW-SB14-2	N	Beryllium	0.40	0.32 JE	0.32 J	mg/kg	A/TR
E200.8/NONE	SO	JW-SB14-2	N	Cadmium	0.40	0.14 J	0.14 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-2	N	Cobalt	0.40	9.3 E	9.3 J	mg/kg	A
E200.8/NONE	SO	JW-SB14-2	N	Chromium	0.80	15.4 N	15.4 J	mg/kg	M
E200.8/NONE	SO	JW-SB14-2	N	Copper	0.80	15.7	15.7	mg/kg	
E200.8/NONE	SO	JW-SB14-2	N	Manganese	4.0	338 D	338	mg/kg	
E200.8/NONE	SO	JW-SB14-2	N	Nickel	0.40	11.7	11.7	mg/kg	
E200.8/NONE	SO	JW-SB14-2	N	Lead	0.40	6.4 N	6.4 J	mg/kg	M
E200.8/NONE	SO	JW-SB14-2	N	Vanadium	2.0	34.9 N	34.9 J	mg/kg	M
E200.8/NONE	SO	JW-SB14-2	N	Zinc	0.80	61.3 N	61.3 J	mg/kg	M
E200.8/NONE	SO	JW-SB14-25	N	Arsenic	0.46	2.8	2.8	mg/kg	
E200.8/NONE	SO	JW-SB14-25	N	Barium	4.6	218 N	218	mg/kg	
E200.8/NONE	SO	JW-SB14-25	N	Beryllium	0.46	0.63 E	0.63	mg/kg	
E200.8/NONE	SO	JW-SB14-25	N	Cadmium	0.46	0.29 J	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-25	N	Cobalt	0.46	16.4 E	16.4	mg/kg	
E200.8/NONE	SO	JW-SB14-25	N	Chromium	0.92	32.4 N	32.4	mg/kg	
E200.8/NONE	SO	JW-SB14-25	N	Copper	0.92	34.7	34.7	mg/kg	
E200.8/NONE	SO	JW-SB14-25	N	Manganese	4.6	615 D	615	mg/kg	
E200.8/NONE	SO	JW-SB14-25	N	Nickel	0.46	23.5	23.5	mg/kg	
E200.8/NONE	SO	JW-SB14-25	N	Lead	0.46	5.8 N	5.8	mg/kg	
E200.8/NONE	SO	JW-SB14-25	N	Vanadium	2.3	59.9 N	59.9	mg/kg	
E200.8/NONE	SO	JW-SB14-25	N	Zinc	0.92	97.0 N	97.0	mg/kg	
E200.8/NONE	SO	JW-SB14-35	N	Arsenic	0.38	7.0	7.0	mg/kg	
E200.8/NONE	SO	JW-SB14-35	N	Barium	3.8	106 N	106	mg/kg	
E200.8/NONE	SO	JW-SB14-35	N	Beryllium	0.38	0.26 JE	0.26 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB14-35	N	Cadmium	0.38	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-35	N	Cobalt	0.38	9.1 E	9.1	mg/kg	
E200.8/NONE	SO	JW-SB14-35	N	Chromium	0.76	12.7 N	12.7	mg/kg	
E200.8/NONE	SO	JW-SB14-35	N	Copper	0.76	11.4	11.4	mg/kg	
E200.8/NONE	SO	JW-SB14-35	N	Manganese	3.8	318 D	318	mg/kg	
E200.8/NONE	SO	JW-SB14-35	N	Nickel	0.38	9.5	9.5	mg/kg	
E200.8/NONE	SO	JW-SB14-35	N	Lead	0.38	2.8 N	2.8	mg/kg	
E200.8/NONE	SO	JW-SB14-35	N	Vanadium	1.9	32.9 N	32.9	mg/kg	
E200.8/NONE	SO	JW-SB14-35	N	Zinc	0.76	48.1 N	48.1	mg/kg	
E200.8/NONE	SO	JW-SB14-5	N	Arsenic	0.38	1.7	1.7	mg/kg	
E200.8/NONE	SO	JW-SB14-5	N	Barium	3.8	126 N	126	mg/kg	
E200.8/NONE	SO	JW-SB14-5	N	Beryllium	0.38	0.43 E	0.43	mg/kg	
E200.8/NONE	SO	JW-SB14-5	N	Cadmium	0.38	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB14-5	N	Cobalt	0.38	10.2 E	10.2	mg/kg	
E200.8/NONE	SO	JW-SB14-5	N	Chromium	0.77	17.3 N	17.3	mg/kg	
E200.8/NONE	SO	JW-SB14-5	N	Copper	0.77	18.1	18.1	mg/kg	
E200.8/NONE	SO	JW-SB14-5	N	Manganese	3.8	390 D	390	mg/kg	
E200.8/NONE	SO	JW-SB14-5	N	Nickel	0.38	12.6	12.6	mg/kg	
E200.8/NONE	SO	JW-SB14-5	N	Lead	0.38	4.9 N	4.9	mg/kg	
E200.8/NONE	SO	JW-SB14-5	N	Vanadium	1.9	38.8 N	38.8	mg/kg	
E200.8/NONE	SO	JW-SB14-5	N	Zinc	0.77	60.6 N	60.6	mg/kg	
E200.8/NONE	SO	JW-SB15-0.5	N	Arsenic	0.39	2.2	2.2	mg/kg	
E200.8/NONE	SO	JW-SB15-0.5	N	Barium	3.9	122 N	122	mg/kg	
E200.8/NONE	SO	JW-SB15-0.5	N	Beryllium	0.39	0.36 JE	0.36 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-0.5	N	Cadmium	0.39	0.29 J	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-0.5	N	Cobalt	0.39	9.9 E	9.9	mg/kg	
E200.8/NONE	SO	JW-SB15-0.5	N	Chromium	0.78	23.5 N	23.5	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB15-0.5	N	Copper	0.78	18.5	18.5	mg/kg	
E200.8/NONE	SO	JW-SB15-0.5	N	Manganese	3.9	385 D	385	mg/kg	
E200.8/NONE	SO	JW-SB15-0.5	N	Nickel	0.39	14.1	14.1	mg/kg	
E200.8/NONE	SO	JW-SB15-0.5	N	Lead	0.39	13.7 N	13.7	mg/kg	
E200.8/NONE	SO	JW-SB15-0.5	N	Vanadium	1.9	36.6 N	36.6	mg/kg	
E200.8/NONE	SO	JW-SB15-0.5	N	Zinc	0.78	126 N	126	mg/kg	
E200.8/NONE	SO	JW-SB15-15	N	Arsenic	0.43	2.4	2.4	mg/kg	
E200.8/NONE	SO	JW-SB15-15	N	Barium	4.3	200 N	200	mg/kg	
E200.8/NONE	SO	JW-SB15-15	N	Beryllium	0.43	0.59 E	0.59	mg/kg	
E200.8/NONE	SO	JW-SB15-15	N	Cadmium	0.43	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-15	N	Cobalt	0.43	16.0 E	16.0	mg/kg	
E200.8/NONE	SO	JW-SB15-15	N	Chromium	0.87	26.8 N	26.8	mg/kg	
E200.8/NONE	SO	JW-SB15-15	N	Copper	0.87	28.1	28.1	mg/kg	
E200.8/NONE	SO	JW-SB15-15	N	Manganese	4.3	563 D	563	mg/kg	
E200.8/NONE	SO	JW-SB15-15	N	Nickel	0.43	21.0	21.0	mg/kg	
E200.8/NONE	SO	JW-SB15-15	N	Lead	0.43	5.3 N	5.3	mg/kg	
E200.8/NONE	SO	JW-SB15-15	N	Vanadium	2.2	56.9 N	56.9	mg/kg	
E200.8/NONE	SO	JW-SB15-15	N	Zinc	0.87	93.5 N	93.5	mg/kg	
E200.8/NONE	SO	JW-SB15-2	N	Arsenic	0.38	1.4	1.4	mg/kg	
E200.8/NONE	SO	JW-SB15-2	N	Barium	3.8	111 N	111	mg/kg	
E200.8/NONE	SO	JW-SB15-2	N	Beryllium	0.38	0.30 JE	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-2	N	Cadmium	0.38	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-2	N	Cobalt	0.38	9.4 E	9.4	mg/kg	
E200.8/NONE	SO	JW-SB15-2	N	Chromium	0.76	15.5 N	15.5	mg/kg	
E200.8/NONE	SO	JW-SB15-2	N	Copper	0.76	14.1	14.1	mg/kg	
E200.8/NONE	SO	JW-SB15-2	N	Manganese	3.8	326 D	326	mg/kg	
E200.8/NONE	SO	JW-SB15-2	N	Nickel	0.38	11.3	11.3	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB15-2	N	Lead	0.38	7.5 N	7.5	mg/kg	
E200.8/NONE	SO	JW-SB15-2	N	Vanadium	1.9	32.2 N	32.2	mg/kg	
E200.8/NONE	SO	JW-SB15-2	N	Zinc	0.76	60.3 N	60.3	mg/kg	
E200.8/NONE	SO	JW-SB15-25	N	Arsenic	0.46	3.2	3.2	mg/kg	
E200.8/NONE	SO	JW-SB15-25	N	Barium	4.6	212 N	212	mg/kg	
E200.8/NONE	SO	JW-SB15-25	N	Beryllium	0.46	0.68 E	0.68	mg/kg	
E200.8/NONE	SO	JW-SB15-25	N	Cadmium	0.46	0.23 J	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-25	N	Cobalt	0.46	16.4 E	16.4	mg/kg	
E200.8/NONE	SO	JW-SB15-25	N	Chromium	0.92	29.3 N	29.3	mg/kg	
E200.8/NONE	SO	JW-SB15-25	N	Copper	0.92	30.6	30.6	mg/kg	
E200.8/NONE	SO	JW-SB15-25	N	Manganese	4.6	589 D	589	mg/kg	
E200.8/NONE	SO	JW-SB15-25	N	Nickel	0.46	22.2	22.2	mg/kg	
E200.8/NONE	SO	JW-SB15-25	N	Lead	0.46	6.8 N	6.8	mg/kg	
E200.8/NONE	SO	JW-SB15-25	N	Vanadium	2.3	56.3 N	56.3	mg/kg	
E200.8/NONE	SO	JW-SB15-25	N	Zinc	0.92	93.7 N	93.7	mg/kg	
E200.8/NONE	SO	JW-SB15-35	N	Arsenic	0.40	9.2	9.2	mg/kg	
E200.8/NONE	SO	JW-SB15-35	N	Barium	4.0	74.4 N	74.4	mg/kg	
E200.8/NONE	SO	JW-SB15-35	N	Beryllium	0.40	0.23 JE	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-35	N	Cadmium	0.40	0.058 J	0.058 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-35	N	Cobalt	0.40	7.9 E	7.9	mg/kg	
E200.8/NONE	SO	JW-SB15-35	N	Chromium	0.80	9.7 N	9.7	mg/kg	
E200.8/NONE	SO	JW-SB15-35	N	Copper	0.80	8.3	8.3	mg/kg	
E200.8/NONE	SO	JW-SB15-35	N	Manganese	4.0	248 D	248	mg/kg	
E200.8/NONE	SO	JW-SB15-35	N	Nickel	0.40	7.6	7.6	mg/kg	
E200.8/NONE	SO	JW-SB15-35	N	Lead	0.40	2.3 N	2.3	mg/kg	
E200.8/NONE	SO	JW-SB15-35	N	Vanadium	2.0	25.8 N	25.8	mg/kg	
E200.8/NONE	SO	JW-SB15-35	N	Zinc	0.80	40.3 N	40.3	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB15-5	N	Arsenic	0.41	1.4	1.4	mg/kg	
E200.8/NONE	SO	JW-SB15-5	N	Barium	4.1	64.3 N	64.3	mg/kg	
E200.8/NONE	SO	JW-SB15-5	N	Beryllium	0.41	0.20 JE	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-5	N	Cadmium	0.41	0.093 J	0.093 J	mg/kg	TR
E200.8/NONE	SO	JW-SB15-5	N	Cobalt	0.41	6.2 E	6.2	mg/kg	
E200.8/NONE	SO	JW-SB15-5	N	Chromium	0.81	9.5 N	9.5	mg/kg	
E200.8/NONE	SO	JW-SB15-5	N	Copper	0.81	17.3	17.3	mg/kg	
E200.8/NONE	SO	JW-SB15-5	N	Manganese	4.1	192 D	192	mg/kg	
E200.8/NONE	SO	JW-SB15-5	N	Nickel	0.41	8.9	8.9	mg/kg	
E200.8/NONE	SO	JW-SB15-5	N	Lead	0.41	2.4 N	2.4	mg/kg	
E200.8/NONE	SO	JW-SB15-5	N	Vanadium	2.0	18.1 N	18.1	mg/kg	
E200.8/NONE	SO	JW-SB15-5	N	Zinc	0.81	29.2 N	29.2	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SR1

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9ST8, Certified - 4/7/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9ST8

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	18	2
SW7471B/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9ST8. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 4 results (2.86%) out of the 140 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

No COC receipt issues or calibration anomalies were noted.

Data qualifiers were added for minor field duplicate imprecisipon (D5).

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 12:00:46 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

Batch Report

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75160-CC	PB82124	NA	JW-SB/SG07	SO	JW-SB07-0.5	G1508-10	LB75160-S0	1/1	12-Mar-2015 8:20 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:51 PM	N
	PB82124	NA	JW-SB/SG07	SO	JW-SB07-15	G1508-14	LB75160-S0	1/1	12-Mar-2015 8:40 AM	16-Mar-2015 12:00 PM	16-Mar-2015 2:07 PM	N
	PB82124	NA	JW-SB/SG07	SO	JW-SB07-2	G1508-11	LB75160-S0	1/1	12-Mar-2015 8:25 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:55 PM	N
	PB82124	NA	JW-SB/SG07	SO	JW-SB07-25	G1508-15	LB75160-S0	1/1	12-Mar-2015 8:55 AM	16-Mar-2015 12:00 PM	16-Mar-2015 2:11 PM	N
	PB82124	NA	JW-SB/SG07	SO	JW-SB07-35	G1508-16	LB75160-S0	1/1	12-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	16-Mar-2015 2:15 PM	N
	PB82124	NA	JW-SB/SG07	SO	JW-SB07-5	G1508-12	LB75160-S0	1/1	12-Mar-2015 8:30 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:59 PM	N
	PB82124	NA	JW-SB/SG07	SO	JW-SB07-6	G1508-13	LB75160-S0	1/1	12-Mar-2015 8:45 AM	16-Mar-2015 12:00 PM	16-Mar-2015 2:03 PM	FD
	PB82124	NA	JW-SB/SG08	SO	JW-SB08-0.5	G1508-17	LB75160-S0	1/1	12-Mar-2015 10:05 AM	16-Mar-2015 12:00 PM	16-Mar-2015 2:19 PM	N
	PB82124	NA	JW-SB/SG08	SO	JW-SB08-15	G1508-20	LB75160-S0	1/1	12-Mar-2015 10:30 AM	16-Mar-2015 12:00 PM	16-Mar-2015 2:31 PM	N
	PB82124	NA	JW-SB/SG08	SO	JW-SB08-2	G1508-18	LB75160-S0	1/1	12-Mar-2015 10:10 AM	16-Mar-2015 12:00 PM	16-Mar-2015 2:23 PM	N
	PB82124	NA	JW-SB/SG08	SO	JW-SB08-25	G1508-21	LB75160-S0	1/1	12-Mar-2015 10:40 AM	16-Mar-2015 12:00 PM	16-Mar-2015 2:35 PM	N
	PB82124	NA	JW-SB/SG08	SO	JW-SB08-35	G1508-22	LB75160-S0	1/1	12-Mar-2015 10:55 AM	16-Mar-2015 12:00 PM	16-Mar-2015 2:39 PM	N
	PB82124	NA	JW-SB/SG08	SO	JW-SB08-5	G1508-19	LB75160-S0	1/1	12-Mar-2015 10:15 AM	16-Mar-2015 12:00 PM	16-Mar-2015 2:27 PM	N
	PB82124	NA	JW-SB/SG17	SO	JW-SB17-5	G1508-02	LB75160-S0	1/1	11-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:07 PM	LR
	PB82124	NA	JW-SB/SG17	SO	JW-SB17-5	G1508-03	LB75160-S0	1/1	11-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:11 PM	MS
	PB82124	NA	JW-SB/SG17	SO	JW-SB17-5	G1508-01	LB75160-S0	1/1	11-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:03 PM	N
	PB82124	NA	JW-SB/SG18	SO	JW-SB18-15	G1508-06	LB75160-S0	1/1	11-Mar-2015 10:20 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:27 PM	N
	PB82124	NA	JW-SB/SG18	SO	JW-SB18-16	G1508-07	LB75160-S0	1/1	11-Mar-2015 10:25 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:31 PM	FD
	PB82124	NA	JW-SB/SG18	SO	JW-SB18-2	G1508-04	LB75160-S0	1/1	11-Mar-2015 10:05 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:19 PM	N
	PB82124	NA	JW-SB/SG18	SO	JW-SB18-25	G1508-08	LB75160-S0	1/1	11-Mar-2015 10:35 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:35 PM	N
	PB82124	NA	JW-SB/SG18	SO	JW-SB18-35	G1508-09	LB75160-S0	1/1	11-Mar-2015 10:45 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:47 PM	N
	PB82124	NA	JW-SB/SG18	SO	JW-SB18-5	G1508-05	LB75160-S0	1/1	11-Mar-2015 10:10 AM	16-Mar-2015 12:00 PM	16-Mar-2015 1:23 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75160-CC	PB82124	NA	LABQC	SQ	LABQC	PB82124BS	LB75160-S0	1/1	16-Mar-2015 12:59 PM	16-Mar-2015 12:59 PM	16-Mar-2015 12:59 PM	BS
	PB82124	NA	LABQC	SQ	LABQC	PB82124BL	LB75160-S0	1/1	16-Mar-2015 12:54 PM	16-Mar-2015 12:54 PM	16-Mar-2015 12:54 PM	LB

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75189-CC	PB82158	NA	JW-SB/SG07	SO	JW-SB07-0.5	G1508-10	LB75189-S0	1/1	12-Mar-2015 8:20 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:09 PM	N
	PB82158	NA	JW-SB/SG07	SO	JW-SB07-15	G1508-14	LB75189-S0	1/1	12-Mar-2015 8:40 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:18 PM	N
	PB82158	NA	JW-SB/SG07	SO	JW-SB07-2	G1508-11	LB75189-S0	1/1	12-Mar-2015 8:25 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:11 PM	N
	PB82158	NA	JW-SB/SG07	SO	JW-SB07-25	G1508-15	LB75189-S0	1/1	12-Mar-2015 8:55 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:20 PM	N
	PB82158	NA	JW-SB/SG07	SO	JW-SB07-35	G1508-16	LB75189-S0	1/1	12-Mar-2015 9:00 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:22 PM	N
	PB82158	NA	JW-SB/SG07	SO	JW-SB07-5	G1508-12	LB75189-S0	1/1	12-Mar-2015 8:30 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:13 PM	N
	PB82158	NA	JW-SB/SG07	SO	JW-SB07-6	G1508-13	LB75189-S0	1/1	12-Mar-2015 8:45 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:15 PM	FD
	PB82158	NA	JW-SB/SG08	SO	JW-SB08-0.5	G1508-17	LB75189-S0	1/1	12-Mar-2015 10:05 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:24 PM	N
	PB82158	NA	JW-SB/SG08	SO	JW-SB08-15	G1508-20	LB75189-S0	1/1	12-Mar-2015 10:30 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:34 PM	N
	PB82158	NA	JW-SB/SG08	SO	JW-SB08-2	G1508-18	LB75189-S0	1/1	12-Mar-2015 10:10 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:26 PM	N
	PB82158	NA	JW-SB/SG08	SO	JW-SB08-25	G1508-21	LB75189-S0	1/1	12-Mar-2015 10:40 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:37 PM	N
	PB82158	NA	JW-SB/SG08	SO	JW-SB08-35	G1508-22	LB75189-S0	1/1	12-Mar-2015 10:55 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:39 PM	N
	PB82158	NA	JW-SB/SG08	SO	JW-SB08-5	G1508-19	LB75189-S0	1/1	12-Mar-2015 10:15 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:28 PM	N
	PB82158	NA	JW-SB/SG17	SO	JW-SB17-5	G1508-02	LB75189-S0	1/1	11-Mar-2015 9:00 AM	17-Mar-2015 12:00 PM	18-Mar-2015 2:52 PM	LR
	PB82158	NA	JW-SB/SG17	SO	JW-SB17-5	G1508-03	LB75189-S0	1/1	11-Mar-2015 9:00 AM	17-Mar-2015 12:00 PM	18-Mar-2015 2:54 PM	MS
	PB82158	NA	JW-SB/SG17	SO	JW-SB17-5	G1508-01	LB75189-S0	1/1	11-Mar-2015 9:00 AM	17-Mar-2015 12:00 PM	18-Mar-2015 2:48 PM	N
	PB82158	NA	JW-SB/SG18	SO	JW-SB18-15	G1508-06	LB75189-S0	1/1	11-Mar-2015 10:20 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:01 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75189-CC	PB82158	NA	JW-SB/SG18	SO	JW-SB18-16	G1508-07	LB75189-S0	1/1	11-Mar-2015 10:25 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:03 PM	FD
	PB82158	NA	JW-SB/SG18	SO	JW-SB18-2	G1508-04	LB75189-S0	1/1	11-Mar-2015 10:05 AM	17-Mar-2015 12:00 PM	18-Mar-2015 2:56 PM	N
	PB82158	NA	JW-SB/SG18	SO	JW-SB18-25	G1508-08	LB75189-S0	1/1	11-Mar-2015 10:35 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:05 PM	N
	PB82158	NA	JW-SB/SG18	SO	JW-SB18-35	G1508-09	LB75189-S0	1/1	11-Mar-2015 10:45 AM	17-Mar-2015 12:00 PM	18-Mar-2015 3:07 PM	N
	PB82158	NA	JW-SB/SG18	SO	JW-SB18-5	G1508-05	LB75189-S0	1/1	11-Mar-2015 10:10 AM	17-Mar-2015 12:00 PM	18-Mar-2015 2:58 PM	N
	PB82158	NA	LABQC	SQ	LABQC	PB82158BL	LB75189-S0	1/1	18-Mar-2015 2:45 PM	18-Mar-2015 2:45 PM	18-Mar-2015 2:45 PM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.7 / METHOD	Blank	PB82124BL (LB)	1 / 1.00	Aluminum	3.60	mg/kg	U/None	< 2.8	< 20	B1		10	36.0
E200.7 / METHOD	Field Duplicate RPD	G1508-07 (N)	1 / 1.00	Sodium	77.7	RPD	J/None	< 50	< 100	D5		RPD	
SW7471B / METHOD	Field Duplicate RPD	G1508-07 (N)	1 / 1.00	Mercury	85.7	RPD	J/None	< 50	< 100	D5		RPD	

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB07-0.5	N	Sodium	363	311 J	311 J	mg/kg	TR
E200.7/NONE	SO	JW-SB07-2	N	Sodium	374	246 J	246 J	mg/kg	TR
E200.7/NONE	SO	JW-SB07-5	N	Sodium	420	397 J	397 J	mg/kg	TR
E200.7/NONE	SO	JW-SB08-2	N	Sodium	367	278 J	278 J	mg/kg	TR
E200.7/NONE	SO	JW-SB17-5	N	Sodium	399	331 J	331 J	mg/kg	TR
E200.7/NONE	SO	JW-SB18-15	N	Sodium	459	1170	1170 J	mg/kg	D5
E200.7/NONE	SO	JW-SB18-16	FD	Sodium	398	515	515 J	mg/kg	D5
E200.7/NONE	SO	JW-SB18-2	N	Sodium	396	230 J	230 J	mg/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB07-0.5	N	Mercury	0.096	0.061 J	0.061 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-15	N	Mercury	0.11	0.048 J	0.048 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-2	N	Mercury	0.11	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-25	N	Mercury	0.11	0.052 J	0.052 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-35	N	Mercury	0.093	0.037 J	0.037 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-5	N	Mercury	0.11	0.039 J	0.039 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-6	FD	Mercury	0.11	0.061 J	0.061 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB08-15	N	Mercury	0.099	0.046 J	0.046 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB08-2	N	Mercury	0.10	0.031 J	0.031 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB08-25	N	Mercury	0.12	0.070 J	0.070 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB08-35	N	Mercury	0.11	0.068 J	0.068 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB17-5	N	Mercury	0.098	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB18-15	N	Mercury	0.11	0.052 J	0.052 J	mg/kg	D5/TR
SW7471B/NONE	SO	JW-SB18-16	FD	Mercury	0.10	0.13	0.13 J	mg/kg	D5
SW7471B/NONE	SO	JW-SB18-2	N	Mercury	0.099	0.033 J	0.033 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB18-25	N	Mercury	0.11	0.056 J	0.056 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB18-35	N	Mercury	0.11	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB18-5	N	Mercury	0.10	0.056 J	0.056 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB07-0.5	N	Aluminum	14.5	9950	9950	mg/kg	
E200.7/NONE	SO	JW-SB07-0.5	N	Calcium	363	6080	6080	mg/kg	
E200.7/NONE	SO	JW-SB07-0.5	N	Iron	7.3	17500	17500	mg/kg	
E200.7/NONE	SO	JW-SB07-0.5	N	Potassium	363	3740	3740	mg/kg	
E200.7/NONE	SO	JW-SB07-0.5	N	Magnesium	363	5380	5380	mg/kg	
E200.7/NONE	SO	JW-SB07-0.5	N	Sodium	363	311 J	311 J	mg/kg	TR
E200.7/NONE	SO	JW-SB07-15	N	Aluminum	18.2	17100	17100	mg/kg	
E200.7/NONE	SO	JW-SB07-15	N	Calcium	456	10900	10900	mg/kg	
E200.7/NONE	SO	JW-SB07-15	N	Iron	9.1	26200	26200	mg/kg	
E200.7/NONE	SO	JW-SB07-15	N	Potassium	456	5800	5800	mg/kg	
E200.7/NONE	SO	JW-SB07-15	N	Magnesium	456	9890	9890	mg/kg	
E200.7/NONE	SO	JW-SB07-15	N	Sodium	456	719	719	mg/kg	
E200.7/NONE	SO	JW-SB07-2	N	Aluminum	15.0	6430	6430	mg/kg	
E200.7/NONE	SO	JW-SB07-2	N	Calcium	374	4260	4260	mg/kg	
E200.7/NONE	SO	JW-SB07-2	N	Iron	7.5	13300	13300	mg/kg	
E200.7/NONE	SO	JW-SB07-2	N	Potassium	374	2490	2490	mg/kg	
E200.7/NONE	SO	JW-SB07-2	N	Magnesium	374	3450	3450	mg/kg	
E200.7/NONE	SO	JW-SB07-2	N	Sodium	374	246 J	246 J	mg/kg	TR
E200.7/NONE	SO	JW-SB07-25	N	Aluminum	17.8	16600	16600	mg/kg	
E200.7/NONE	SO	JW-SB07-25	N	Calcium	445	9800	9800	mg/kg	
E200.7/NONE	SO	JW-SB07-25	N	Iron	8.9	26600	26600	mg/kg	
E200.7/NONE	SO	JW-SB07-25	N	Potassium	445	5430	5430	mg/kg	
E200.7/NONE	SO	JW-SB07-25	N	Magnesium	445	9170	9170	mg/kg	
E200.7/NONE	SO	JW-SB07-25	N	Sodium	445	1590	1590	mg/kg	
E200.7/NONE	SO	JW-SB07-35	N	Aluminum	16.0	8460	8460	mg/kg	
E200.7/NONE	SO	JW-SB07-35	N	Calcium	399	4710	4710	mg/kg	
E200.7/NONE	SO	JW-SB07-35	N	Iron	8.0	15600	15600	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB07-35	N	Potassium	399	2890	2890	mg/kg	
E200.7/NONE	SO	JW-SB07-35	N	Magnesium	399	5020	5020	mg/kg	
E200.7/NONE	SO	JW-SB07-35	N	Sodium	399	496	496	mg/kg	
E200.7/NONE	SO	JW-SB07-5	N	Aluminum	16.8	12500	12500	mg/kg	
E200.7/NONE	SO	JW-SB07-5	N	Calcium	420	7080	7080	mg/kg	
E200.7/NONE	SO	JW-SB07-5	N	Iron	8.4	21200	21200	mg/kg	
E200.7/NONE	SO	JW-SB07-5	N	Potassium	420	4070	4070	mg/kg	
E200.7/NONE	SO	JW-SB07-5	N	Magnesium	420	6890	6890	mg/kg	
E200.7/NONE	SO	JW-SB07-5	N	Sodium	420	397 J	397 J	mg/kg	TR
E200.7/NONE	SO	JW-SB07-6	FD	Aluminum	17.8	13000	13000	mg/kg	
E200.7/NONE	SO	JW-SB07-6	FD	Calcium	445	7230	7230	mg/kg	
E200.7/NONE	SO	JW-SB07-6	FD	Iron	8.9	20900	20900	mg/kg	
E200.7/NONE	SO	JW-SB07-6	FD	Potassium	445	4550	4550	mg/kg	
E200.7/NONE	SO	JW-SB07-6	FD	Magnesium	445	7650	7650	mg/kg	
E200.7/NONE	SO	JW-SB07-6	FD	Sodium	445	554	554	mg/kg	
E200.7/NONE	SO	JW-SB08-0.5	N	Aluminum	15.3	10200	10200	mg/kg	
E200.7/NONE	SO	JW-SB08-0.5	N	Calcium	384	8530	8530	mg/kg	
E200.7/NONE	SO	JW-SB08-0.5	N	Iron	7.7	17300	17300	mg/kg	
E200.7/NONE	SO	JW-SB08-0.5	N	Potassium	384	4000	4000	mg/kg	
E200.7/NONE	SO	JW-SB08-0.5	N	Magnesium	384	5490	5490	mg/kg	
E200.7/NONE	SO	JW-SB08-0.5	N	Sodium	384	393	393	mg/kg	
E200.7/NONE	SO	JW-SB08-15	N	Aluminum	16.7	14000	14000	mg/kg	
E200.7/NONE	SO	JW-SB08-15	N	Calcium	417	8910	8910	mg/kg	
E200.7/NONE	SO	JW-SB08-15	N	Iron	8.3	21900	21900	mg/kg	
E200.7/NONE	SO	JW-SB08-15	N	Potassium	417	4550	4550	mg/kg	
E200.7/NONE	SO	JW-SB08-15	N	Magnesium	417	7430	7430	mg/kg	
E200.7/NONE	SO	JW-SB08-15	N	Sodium	417	737	737	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB08-2	N	Aluminum	14.7	9390	9390	mg/kg	
E200.7/NONE	SO	JW-SB08-2	N	Calcium	367	4510	4510	mg/kg	
E200.7/NONE	SO	JW-SB08-2	N	Iron	7.3	16400	16400	mg/kg	
E200.7/NONE	SO	JW-SB08-2	N	Potassium	367	4020	4020	mg/kg	
E200.7/NONE	SO	JW-SB08-2	N	Magnesium	367	5300	5300	mg/kg	
E200.7/NONE	SO	JW-SB08-2	N	Sodium	367	278 J	278 J	mg/kg	TR
E200.7/NONE	SO	JW-SB08-25	N	Aluminum	17.6	17800	17800	mg/kg	
E200.7/NONE	SO	JW-SB08-25	N	Calcium	440	13900	13900	mg/kg	
E200.7/NONE	SO	JW-SB08-25	N	Iron	8.8	27800	27800	mg/kg	
E200.7/NONE	SO	JW-SB08-25	N	Potassium	440	5750	5750	mg/kg	
E200.7/NONE	SO	JW-SB08-25	N	Magnesium	440	10100	10100	mg/kg	
E200.7/NONE	SO	JW-SB08-25	N	Sodium	440	2110	2110	mg/kg	
E200.7/NONE	SO	JW-SB08-35	N	Aluminum	16.1	8600	8600	mg/kg	
E200.7/NONE	SO	JW-SB08-35	N	Calcium	403	5590	5590	mg/kg	
E200.7/NONE	SO	JW-SB08-35	N	Iron	8.1	14900	14900	mg/kg	
E200.7/NONE	SO	JW-SB08-35	N	Potassium	403	2720	2720	mg/kg	
E200.7/NONE	SO	JW-SB08-35	N	Magnesium	403	5010	5010	mg/kg	
E200.7/NONE	SO	JW-SB08-35	N	Sodium	403	635	635	mg/kg	
E200.7/NONE	SO	JW-SB08-5	N	Aluminum	16.2	13800	13800	mg/kg	
E200.7/NONE	SO	JW-SB08-5	N	Calcium	404	7220	7220	mg/kg	
E200.7/NONE	SO	JW-SB08-5	N	Iron	8.1	22000	22000	mg/kg	
E200.7/NONE	SO	JW-SB08-5	N	Potassium	404	4370	4370	mg/kg	
E200.7/NONE	SO	JW-SB08-5	N	Magnesium	404	6920	6920	mg/kg	
E200.7/NONE	SO	JW-SB08-5	N	Sodium	404	445	445	mg/kg	
E200.7/NONE	SO	JW-SB17-5	N	Aluminum	16.0	10400	10400	mg/kg	
E200.7/NONE	SO	JW-SB17-5	N	Calcium	399	5830	5830	mg/kg	
E200.7/NONE	SO	JW-SB17-5	N	Iron	8.0	18900	18900	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB17-5	N	Potassium	399	3180	3180	mg/kg	
E200.7/NONE	SO	JW-SB17-5	N	Magnesium	399	5190	5190	mg/kg	
E200.7/NONE	SO	JW-SB17-5	N	Sodium	399	331 J	331 J	mg/kg	TR
E200.7/NONE	SO	JW-SB18-15	N	Aluminum	18.4	12500	12500	mg/kg	
E200.7/NONE	SO	JW-SB18-15	N	Calcium	459	8650	8650	mg/kg	
E200.7/NONE	SO	JW-SB18-15	N	Iron	9.2	21300	21300	mg/kg	
E200.7/NONE	SO	JW-SB18-15	N	Potassium	459	3790	3790	mg/kg	
E200.7/NONE	SO	JW-SB18-15	N	Magnesium	459	7100	7100	mg/kg	
E200.7/NONE	SO	JW-SB18-15	N	Sodium	459	1170	1170 J	mg/kg	D5
E200.7/NONE	SO	JW-SB18-16	FD	Aluminum	15.9	10300	10300	mg/kg	
E200.7/NONE	SO	JW-SB18-16	FD	Calcium	398	6660	6660	mg/kg	
E200.7/NONE	SO	JW-SB18-16	FD	Iron	8.0	18200	18200	mg/kg	
E200.7/NONE	SO	JW-SB18-16	FD	Potassium	398	3250	3250	mg/kg	
E200.7/NONE	SO	JW-SB18-16	FD	Magnesium	398	5710	5710	mg/kg	
E200.7/NONE	SO	JW-SB18-16	FD	Sodium	398	515	515 J	mg/kg	D5
E200.7/NONE	SO	JW-SB18-2	N	Aluminum	15.8	9760	9760	mg/kg	
E200.7/NONE	SO	JW-SB18-2	N	Calcium	396	5150	5150	mg/kg	
E200.7/NONE	SO	JW-SB18-2	N	Iron	7.9	17600	17600	mg/kg	
E200.7/NONE	SO	JW-SB18-2	N	Potassium	396	3870	3870	mg/kg	
E200.7/NONE	SO	JW-SB18-2	N	Magnesium	396	5670	5670	mg/kg	
E200.7/NONE	SO	JW-SB18-2	N	Sodium	396	230 J	230 J	mg/kg	TR
E200.7/NONE	SO	JW-SB18-25	N	Aluminum	18.3	18900	18900	mg/kg	
E200.7/NONE	SO	JW-SB18-25	N	Calcium	457	19200	19200	mg/kg	
E200.7/NONE	SO	JW-SB18-25	N	Iron	9.1	29200	29200	mg/kg	
E200.7/NONE	SO	JW-SB18-25	N	Potassium	457	6110	6110	mg/kg	
E200.7/NONE	SO	JW-SB18-25	N	Magnesium	457	10900	10900	mg/kg	
E200.7/NONE	SO	JW-SB18-25	N	Sodium	457	1910	1910	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB18-35	N	Aluminum	15.2	6130	6130	mg/kg	
E200.7/NONE	SO	JW-SB18-35	N	Calcium	380	4440	4440	mg/kg	
E200.7/NONE	SO	JW-SB18-35	N	Iron	7.6	11300	11300	mg/kg	
E200.7/NONE	SO	JW-SB18-35	N	Potassium	380	2000	2000	mg/kg	
E200.7/NONE	SO	JW-SB18-35	N	Magnesium	380	3510	3510	mg/kg	
E200.7/NONE	SO	JW-SB18-35	N	Sodium	380	417	417	mg/kg	
E200.7/NONE	SO	JW-SB18-5	N	Aluminum	16.3	12700	12700	mg/kg	
E200.7/NONE	SO	JW-SB18-5	N	Calcium	408	7370	7370	mg/kg	
E200.7/NONE	SO	JW-SB18-5	N	Iron	8.2	21100	21100	mg/kg	
E200.7/NONE	SO	JW-SB18-5	N	Potassium	408	3740	3740	mg/kg	
E200.7/NONE	SO	JW-SB18-5	N	Magnesium	408	6510	6510	mg/kg	
E200.7/NONE	SO	JW-SB18-5	N	Sodium	408	459	459	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB07-0.5	N	Mercury	0.096	0.061 J	0.061 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-15	N	Mercury	0.11	0.048 J	0.048 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-2	N	Mercury	0.11	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-25	N	Mercury	0.11	0.052 J	0.052 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-35	N	Mercury	0.093	0.037 J	0.037 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-5	N	Mercury	0.11	0.039 J	0.039 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB07-6	FD	Mercury	0.11	0.061 J	0.061 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB08-0.5	N	Mercury	0.11	0.12	0.12	mg/kg	
SW7471B/NONE	SO	JW-SB08-15	N	Mercury	0.099	0.046 J	0.046 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB08-2	N	Mercury	0.10	0.031 J	0.031 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB08-25	N	Mercury	0.12	0.070 J	0.070 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB08-35	N	Mercury	0.11	0.068 J	0.068 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB08-5	N	Mercury	0.094	0.10	0.10	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB17-5	N	Mercury	0.098	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB18-15	N	Mercury	0.11	0.052 J	0.052 J	mg/kg	D5/TR
SW7471B/NONE	SO	JW-SB18-16	FD	Mercury	0.10	0.13	0.13 J	mg/kg	D5
SW7471B/NONE	SO	JW-SB18-2	N	Mercury	0.099	0.033 J	0.033 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB18-25	N	Mercury	0.11	0.056 J	0.056 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB18-35	N	Mercury	0.11	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB18-5	N	Mercury	0.10	0.056 J	0.056 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9ST8

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9SW3, Certified - 4/13/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9SW3

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.8/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9SW3. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 4 results (1.25%) out of the 320 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

No COC receipt issues or calibration anomalies were noted.

Data qualifiers were added for minor poor matrix spike recoveries (M)..

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 12:04:25 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75176-CC	PB82125	NA	JW-SB/SG07	SO	JW-SB07-0.5	G1510-10	LB75176-S0	1/1	12-Mar-2015 8:20 AM	16-Mar-2015 12:00 PM	17-Mar-2015 1:01 AM	N
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-0.5	G1510-10	LB75176-S0	1/10	12-Mar-2015 8:20 AM	16-Mar-2015 12:00 PM	17-Mar-2015 1:09 AM	N
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-15	G1510-14	LB75176-S0	1/1	12-Mar-2015 8:40 AM	16-Mar-2015 12:00 PM	17-Mar-2015 2:20 AM	N
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-15	G1510-14	LB75176-S0	1/10	12-Mar-2015 8:40 AM	16-Mar-2015 12:00 PM	17-Mar-2015 2:28 AM	N
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-2	G1510-11	LB75176-S0	1/1	12-Mar-2015 8:25 AM	16-Mar-2015 12:00 PM	17-Mar-2015 1:17 AM	N
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-25	G1510-15	LB75176-S0	1/1	12-Mar-2015 8:55 AM	16-Mar-2015 12:00 PM	17-Mar-2015 2:35 AM	N
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-25	G1510-15	LB75176-S0	1/10	12-Mar-2015 8:55 AM	16-Mar-2015 12:00 PM	17-Mar-2015 2:43 AM	N
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-35	G1510-16	LB75176-S0	1/1	12-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	17-Mar-2015 2:51 AM	N
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-35	G1510-16	LB75176-S0	1/10	12-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	17-Mar-2015 2:59 AM	N
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-5	G1510-12	LB75176-S0	1/1	12-Mar-2015 8:30 AM	16-Mar-2015 12:00 PM	17-Mar-2015 1:33 AM	N
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-5	G1510-12	LB75176-S0	1/10	12-Mar-2015 8:30 AM	16-Mar-2015 12:00 PM	17-Mar-2015 1:41 AM	N
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-6	G1510-13	LB75176-S0	1/1	12-Mar-2015 8:45 AM	16-Mar-2015 12:00 PM	17-Mar-2015 1:48 AM	FD
	PB82125	NA	JW-SB/SG07	SO	JW-SB07-6	G1510-13	LB75176-S0	1/10	12-Mar-2015 8:45 AM	16-Mar-2015 12:00 PM	17-Mar-2015 1:56 AM	FD
	PB82125	NA	JW-SB/SG08	SO	JW-SB08-0.5	G1510-17	LB75176-S0	1/1	12-Mar-2015 10:05 AM	16-Mar-2015 12:00 PM	17-Mar-2015 3:07 AM	N
	PB82125	NA	JW-SB/SG08	SO	JW-SB08-0.5	G1510-17	LB75176-S0	1/10	12-Mar-2015 10:05 AM	16-Mar-2015 12:00 PM	17-Mar-2015 3:15 AM	N
	PB82125	NA	JW-SB/SG08	SO	JW-SB08-15	G1510-20	LB75176-S0	1/1	12-Mar-2015 10:30 AM	16-Mar-2015 12:00 PM	17-Mar-2015 4:10 AM	N
	PB82125	NA	JW-SB/SG08	SO	JW-SB08-15	G1510-20	LB75176-S0	1/10	12-Mar-2015 10:30 AM	16-Mar-2015 12:00 PM	17-Mar-2015 4:17 AM	N
	PB82125	NA	JW-SB/SG08	SO	JW-SB08-2	G1510-18	LB75176-S0	1/1	12-Mar-2015 10:10 AM	16-Mar-2015 12:00 PM	17-Mar-2015 3:22 AM	N
	PB82125	NA	JW-SB/SG08	SO	JW-SB08-2	G1510-18	LB75176-S0	1/10	12-Mar-2015 10:10 AM	16-Mar-2015 12:00 PM	17-Mar-2015 3:30 AM	N
	PB82125	NA	JW-SB/SG08	SO	JW-SB08-25	G1510-21	LB75176-S0	1/1	12-Mar-2015 10:40 AM	16-Mar-2015 12:00 PM	17-Mar-2015 4:25 AM	N
	PB82125	NA	JW-SB/SG08	SO	JW-SB08-25	G1510-21	LB75176-S0	1/10	12-Mar-2015 10:40 AM	16-Mar-2015 12:00 PM	17-Mar-2015 4:33 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75176-CC	PB82125	NA	JW-SB/SG08	SO	JW-SB08-35	G1510-22	LB75176-S0	1/1	12-Mar-2015 10:55 AM	16-Mar-2015 12:00 PM	17-Mar-2015 4:41 AM	N
	PB82125	NA	JW-SB/SG08	SO	JW-SB08-35	G1510-22	LB75176-S0	1/10	12-Mar-2015 10:55 AM	16-Mar-2015 12:00 PM	17-Mar-2015 4:49 AM	N
	PB82125	NA	JW-SB/SG08	SO	JW-SB08-5	G1510-19	LB75176-S0	1/1	12-Mar-2015 10:15 AM	16-Mar-2015 12:00 PM	17-Mar-2015 3:54 AM	N
	PB82125	NA	JW-SB/SG08	SO	JW-SB08-5	G1510-19	LB75176-S0	1/10	12-Mar-2015 10:15 AM	16-Mar-2015 12:00 PM	17-Mar-2015 4:02 AM	N
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-15	G1510-06	LB75176-S0	1/1	11-Mar-2015 10:20 AM	16-Mar-2015 12:00 PM	16-Mar-2015 11:43 PM	N
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-15	G1510-06	LB75176-S0	1/10	11-Mar-2015 10:20 AM	16-Mar-2015 12:00 PM	16-Mar-2015 11:51 PM	N
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-16	G1510-07	LB75176-S0	1/1	11-Mar-2015 10:25 AM	16-Mar-2015 12:00 PM	16-Mar-2015 11:59 PM	FD
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-16	G1510-07	LB75176-S0	1/10	11-Mar-2015 10:25 AM	16-Mar-2015 12:00 PM	17-Mar-2015 12:07 AM	FD
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-2	G1510-04	LB75176-S0	1/1	11-Mar-2015 10:05 AM	16-Mar-2015 12:00 PM	16-Mar-2015 11:12 PM	N
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-2	G1510-04	LB75176-S0	1/10	11-Mar-2015 10:05 AM	16-Mar-2015 12:00 PM	16-Mar-2015 11:20 PM	N
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-25	G1510-08	LB75176-S0	1/1	11-Mar-2015 10:35 AM	16-Mar-2015 12:00 PM	17-Mar-2015 12:15 AM	N
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-25	G1510-08	LB75176-S0	1/10	11-Mar-2015 10:35 AM	16-Mar-2015 12:00 PM	17-Mar-2015 12:22 AM	N
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-35	G1510-09	LB75176-S0	1/1	11-Mar-2015 10:45 AM	16-Mar-2015 12:00 PM	17-Mar-2015 12:46 AM	N
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-35	G1510-09	LB75176-S0	1/10	11-Mar-2015 10:45 AM	16-Mar-2015 12:00 PM	17-Mar-2015 12:54 AM	N
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-5	G1510-05	LB75176-S0	1/1	11-Mar-2015 10:10 AM	16-Mar-2015 12:00 PM	16-Mar-2015 11:28 PM	N
	PB82125	NA	JW-SB/SG18	SO	JW-SB18-5	G1510-05	LB75176-S0	1/10	11-Mar-2015 10:10 AM	16-Mar-2015 12:00 PM	16-Mar-2015 11:35 PM	N
	PB82125	NA	LABQC	SQ	LABQC	PB82125BS	LB75176-S0	1/1	16-Mar-2015 12:00 PM	16-Mar-2015 12:00 PM	16-Mar-2015 9:46 PM	BS
	PB82125	NA	LABQC	SQ	LABQC	PB82125BL	LB75176-S0	1/1	16-Mar-2015 12:00 PM	16-Mar-2015 12:00 PM	16-Mar-2015 9:38 PM	LB
LB75212-CC	PB82125	NA	JW-SB/SG17	SO	JW-SB17-5	G1510-02	LB75212-S0	1/1	11-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	18-Mar-2015 12:27 AM	LR
	PB82125	NA	JW-SB/SG17	SO	JW-SB17-5	G1510-02	LB75212-S0	1/10	11-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	18-Mar-2015 12:35 AM	LR
	PB82125	NA	JW-SB/SG17	SO	JW-SB17-5	G1510-03	LB75212-S0	1/1	11-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	18-Mar-2015 1:14 AM	MS
	PB82125	NA	JW-SB/SG17	SO	JW-SB17-5	G1510-03	LB75212-S0	1/10	11-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	18-Mar-2015 1:22 AM	MS

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75212-CC	PB82125	NA	JW-SB/SG17	SO	JW-SB17-5	G1510-01	LB75212-S0	1/1	11-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	18-Mar-2015 12:12 AM	N
	PB82125	NA	JW-SB/SG17	SO	JW-SB17-5	G1510-01	LB75212-S0	1/10	11-Mar-2015 9:00 AM	16-Mar-2015 12:00 PM	18-Mar-2015 12:19 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.8 / METHOD	Field Duplicate RPD	G1510-07 (N)	1 / 1.00	Selenium	200	RPD	J/None	< 50	< 100	D5		RPD	
E200.8 / METHOD	Field Duplicate RPD	G1510-13 (N)	1 / 1.00	Selenium	200	RPD	J/None	< 50	< 100	D5		RPD	
E200.8 / METHOD	MS Recovery	JW-SB17-5 (MS)	1 / 1.00	Chromium	132	Percent	J/None	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB17-5 (MS)	1 / 1.00	Lead	171	Percent	J/None	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB17-5 (MS)	1 / 10.00	Manganese	353	Percent	J/None	75 - 125	50 - 135	M	Spike amount Insignificant	4.00	
E200.8 / METHOD	MS Recovery	JW-SB17-5 (MS)	1 / 1.00	Vanadium	131	Percent	J/None	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB17-5 (MS)	1 / 1.00	Zinc	135	Percent	J/None	75 - 125	50 - 135	M			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB07-0.5	N	Beryllium	0.39	0.32 J	0.32 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-0.5	N	Selenium	2.0	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-0.5	N	Thallium	0.39	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-15	N	Thallium	0.43	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-2	N	Beryllium	0.36	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-2	N	Selenium	1.8	0.071 J	0.071 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-2	N	Thallium	0.36	0.057 J	0.057 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-25	N	Selenium	2.2	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-25	N	Thallium	0.44	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-35	N	Beryllium	0.39	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-35	N	Selenium	1.9	0.14 J	0.14 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-35	N	Thallium	0.39	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-5	N	Selenium	2.0	0.040 J	0.040 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-5	N	Thallium	0.39	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-6	FD	Thallium	0.43	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-0.5	N	Beryllium	0.39	0.19 J	0.19 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-0.5	N	Selenium	1.9	0.042 J	0.042 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-0.5	N	Thallium	0.39	0.099 J	0.099 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-15	N	Beryllium	0.42	0.31 J	0.31 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-15	N	Thallium	0.42	0.14 J	0.14 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-2	N	Beryllium	0.38	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-2	N	Selenium	1.9	0.031 J	0.031 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-2	N	Thallium	0.38	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-25	N	Selenium	2.2	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-25	N	Thallium	0.44	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-35	N	Beryllium	0.40	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-35	N	Selenium	2.0	0.079 J	0.079 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB08-35	N	Thallium	0.40	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-5	N	Selenium	1.9	0.089 J	0.089 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-5	N	Thallium	0.39	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-5	N	Beryllium	0.39	0.32 J	0.32 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-5	N	Cadmium	0.39	0.11 J	0.11 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-5	N	Chromium	0.79	12.6 N	12.6 J	mg/kg	M
E200.8/NONE	SO	JW-SB17-5	N	Lead	0.39	3.4 N	3.4 J	mg/kg	M
E200.8/NONE	SO	JW-SB17-5	N	Vanadium	2.0	29.7 N	29.7 J	mg/kg	M
E200.8/NONE	SO	JW-SB17-5	N	Zinc	0.79	45.6 N	45.6 J	mg/kg	M
E200.8/NONE	SO	JW-SB18-15	N	Selenium	2.3	0.029 J	0.029 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-15	N	Thallium	0.45	0.24 J	0.24 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-16	FD	Beryllium	0.42	0.36 J	0.36 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-16	FD	Thallium	0.42	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-2	N	Beryllium	0.39	0.31 J	0.31 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-2	N	Selenium	1.9	0.058 J	0.058 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-2	N	Thallium	0.39	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-25	N	Selenium	2.4	0.31 J	0.31 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-25	N	Thallium	0.47	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-35	N	Beryllium	0.37	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-35	N	Selenium	1.9	0.039 J	0.039 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-35	N	Thallium	0.37	0.089 J	0.089 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-5	N	Selenium	2.0	0.080 J	0.080 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-5	N	Thallium	0.40	0.19 J	0.19 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB07-0.5	N	Arsenic	0.39	2.6	2.6	mg/kg	
E200.8/NONE	SO	JW-SB07-0.5	N	Barium	3.9	131	131	mg/kg	
E200.8/NONE	SO	JW-SB07-0.5	N	Beryllium	0.39	0.32 J	0.32 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-0.5	N	Cadmium	0.39	0.68	0.68	mg/kg	
E200.8/NONE	SO	JW-SB07-0.5	N	Cobalt	0.39	7.9	7.9	mg/kg	
E200.8/NONE	SO	JW-SB07-0.5	N	Chromium	0.79	20.1 N	20.1	mg/kg	
E200.8/NONE	SO	JW-SB07-0.5	N	Copper	0.79	34.8	34.8	mg/kg	
E200.8/NONE	SO	JW-SB07-0.5	N	Manganese	3.9	311 D	311	mg/kg	
E200.8/NONE	SO	JW-SB07-0.5	N	Nickel	0.39	13.8	13.8	mg/kg	
E200.8/NONE	SO	JW-SB07-0.5	N	Lead	3.9	86.0 ND	86.0	mg/kg	
E200.8/NONE	SO	JW-SB07-0.5	N	Selenium	2.0	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-0.5	N	Thallium	0.39	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-0.5	N	Vanadium	2.0	29.8 N	29.8	mg/kg	
E200.8/NONE	SO	JW-SB07-0.5	N	Zinc	0.79	126 N	126	mg/kg	
E200.8/NONE	SO	JW-SB07-15	N	Arsenic	0.43	2.3	2.3	mg/kg	
E200.8/NONE	SO	JW-SB07-15	N	Barium	4.3	194	194	mg/kg	
E200.8/NONE	SO	JW-SB07-15	N	Beryllium	0.43	0.55	0.55	mg/kg	
E200.8/NONE	SO	JW-SB07-15	N	Cobalt	0.43	12.5	12.5	mg/kg	
E200.8/NONE	SO	JW-SB07-15	N	Chromium	0.86	24.0 N	24.0	mg/kg	
E200.8/NONE	SO	JW-SB07-15	N	Copper	0.86	27.5	27.5	mg/kg	
E200.8/NONE	SO	JW-SB07-15	N	Manganese	4.3	493 D	493	mg/kg	
E200.8/NONE	SO	JW-SB07-15	N	Nickel	0.43	19.5	19.5	mg/kg	
E200.8/NONE	SO	JW-SB07-15	N	Lead	0.43	5.8 N	5.8	mg/kg	
E200.8/NONE	SO	JW-SB07-15	N	Thallium	0.43	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-15	N	Vanadium	2.1	51.0 N	51.0	mg/kg	
E200.8/NONE	SO	JW-SB07-15	N	Zinc	0.86	84.7 N	84.7	mg/kg	
E200.8/NONE	SO	JW-SB07-2	N	Arsenic	0.36	0.79	0.79	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB07-2	N	Barium	3.6	42.5	42.5	mg/kg	
E200.8/NONE	SO	JW-SB07-2	N	Beryllium	0.36	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-2	N	Cobalt	0.36	3.0	3.0	mg/kg	
E200.8/NONE	SO	JW-SB07-2	N	Chromium	0.71	4.9 N	4.9	mg/kg	
E200.8/NONE	SO	JW-SB07-2	N	Copper	0.71	8.5	8.5	mg/kg	
E200.8/NONE	SO	JW-SB07-2	N	Manganese	0.36	106	106	mg/kg	
E200.8/NONE	SO	JW-SB07-2	N	Nickel	0.36	4.0	4.0	mg/kg	
E200.8/NONE	SO	JW-SB07-2	N	Lead	0.36	11.5 N	11.5	mg/kg	
E200.8/NONE	SO	JW-SB07-2	N	Selenium	1.8	0.071 J	0.071 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-2	N	Thallium	0.36	0.057 J	0.057 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-2	N	Vanadium	1.8	11.2 N	11.2	mg/kg	
E200.8/NONE	SO	JW-SB07-2	N	Zinc	0.71	33.3 N	33.3	mg/kg	
E200.8/NONE	SO	JW-SB07-25	N	Arsenic	0.44	3.6	3.6	mg/kg	
E200.8/NONE	SO	JW-SB07-25	N	Barium	4.4	204	204	mg/kg	
E200.8/NONE	SO	JW-SB07-25	N	Beryllium	0.44	0.58	0.58	mg/kg	
E200.8/NONE	SO	JW-SB07-25	N	Cobalt	0.44	12.6	12.6	mg/kg	
E200.8/NONE	SO	JW-SB07-25	N	Chromium	0.88	25.6 N	25.6	mg/kg	
E200.8/NONE	SO	JW-SB07-25	N	Copper	0.88	29.0	29.0	mg/kg	
E200.8/NONE	SO	JW-SB07-25	N	Manganese	4.4	488 D	488	mg/kg	
E200.8/NONE	SO	JW-SB07-25	N	Nickel	0.44	20.3	20.3	mg/kg	
E200.8/NONE	SO	JW-SB07-25	N	Lead	0.44	5.8 N	5.8	mg/kg	
E200.8/NONE	SO	JW-SB07-25	N	Selenium	2.2	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-25	N	Thallium	0.44	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-25	N	Vanadium	2.2	49.1 N	49.1	mg/kg	
E200.8/NONE	SO	JW-SB07-25	N	Zinc	0.88	82.2 N	82.2	mg/kg	
E200.8/NONE	SO	JW-SB07-35	N	Arsenic	0.39	10.5	10.5	mg/kg	
E200.8/NONE	SO	JW-SB07-35	N	Barium	3.9	98.5	98.5	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB07-35	N	Beryllium	0.39	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-35	N	Cobalt	0.39	6.6	6.6	mg/kg	
E200.8/NONE	SO	JW-SB07-35	N	Chromium	0.78	11.3 N	11.3	mg/kg	
E200.8/NONE	SO	JW-SB07-35	N	Copper	0.78	12.2	12.2	mg/kg	
E200.8/NONE	SO	JW-SB07-35	N	Manganese	3.9	266 D	266	mg/kg	
E200.8/NONE	SO	JW-SB07-35	N	Nickel	0.39	8.9	8.9	mg/kg	
E200.8/NONE	SO	JW-SB07-35	N	Lead	0.39	2.4 N	2.4	mg/kg	
E200.8/NONE	SO	JW-SB07-35	N	Selenium	1.9	0.14 J	0.14 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-35	N	Thallium	0.39	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-35	N	Vanadium	1.9	25.3 N	25.3	mg/kg	
E200.8/NONE	SO	JW-SB07-35	N	Zinc	0.78	44.6 N	44.6	mg/kg	
E200.8/NONE	SO	JW-SB07-5	N	Arsenic	0.39	1.9	1.9	mg/kg	
E200.8/NONE	SO	JW-SB07-5	N	Barium	3.9	141	141	mg/kg	
E200.8/NONE	SO	JW-SB07-5	N	Beryllium	0.39	0.43	0.43	mg/kg	
E200.8/NONE	SO	JW-SB07-5	N	Cobalt	0.39	9.9	9.9	mg/kg	
E200.8/NONE	SO	JW-SB07-5	N	Chromium	0.79	17.4 N	17.4	mg/kg	
E200.8/NONE	SO	JW-SB07-5	N	Copper	0.79	19.0	19.0	mg/kg	
E200.8/NONE	SO	JW-SB07-5	N	Manganese	3.9	398 D	398	mg/kg	
E200.8/NONE	SO	JW-SB07-5	N	Nickel	0.39	13.9	13.9	mg/kg	
E200.8/NONE	SO	JW-SB07-5	N	Lead	0.39	5.0 N	5.0	mg/kg	
E200.8/NONE	SO	JW-SB07-5	N	Selenium	2.0	0.040 J	0.040 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-5	N	Thallium	0.39	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-5	N	Vanadium	2.0	39.8 N	39.8	mg/kg	
E200.8/NONE	SO	JW-SB07-5	N	Zinc	0.79	61.4 N	61.4	mg/kg	
E200.8/NONE	SO	JW-SB07-6	FD	Arsenic	0.43	2.0	2.0	mg/kg	
E200.8/NONE	SO	JW-SB07-6	FD	Barium	4.3	151	151	mg/kg	
E200.8/NONE	SO	JW-SB07-6	FD	Beryllium	0.43	0.45	0.45	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB07-6	FD	Cobalt	0.43	9.9	9.9	mg/kg	
E200.8/NONE	SO	JW-SB07-6	FD	Chromium	0.86	19.2 N	19.2	mg/kg	
E200.8/NONE	SO	JW-SB07-6	FD	Copper	0.86	21.2	21.2	mg/kg	
E200.8/NONE	SO	JW-SB07-6	FD	Manganese	4.3	401 D	401	mg/kg	
E200.8/NONE	SO	JW-SB07-6	FD	Nickel	0.43	14.6	14.6	mg/kg	
E200.8/NONE	SO	JW-SB07-6	FD	Lead	0.43	8.2 N	8.2	mg/kg	
E200.8/NONE	SO	JW-SB07-6	FD	Thallium	0.43	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB07-6	FD	Vanadium	2.1	41.0 N	41.0	mg/kg	
E200.8/NONE	SO	JW-SB07-6	FD	Zinc	0.86	69.6 N	69.6	mg/kg	
E200.8/NONE	SO	JW-SB08-0.5	N	Arsenic	0.39	1.2	1.2	mg/kg	
E200.8/NONE	SO	JW-SB08-0.5	N	Barium	3.9	73.9	73.9	mg/kg	
E200.8/NONE	SO	JW-SB08-0.5	N	Beryllium	0.39	0.19 J	0.19 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-0.5	N	Cobalt	0.39	4.5	4.5	mg/kg	
E200.8/NONE	SO	JW-SB08-0.5	N	Chromium	0.77	9.1 N	9.1	mg/kg	
E200.8/NONE	SO	JW-SB08-0.5	N	Copper	0.77	11.9	11.9	mg/kg	
E200.8/NONE	SO	JW-SB08-0.5	N	Manganese	3.9	187 D	187	mg/kg	
E200.8/NONE	SO	JW-SB08-0.5	N	Nickel	0.39	7.0	7.0	mg/kg	
E200.8/NONE	SO	JW-SB08-0.5	N	Lead	0.39	12.8 N	12.8	mg/kg	
E200.8/NONE	SO	JW-SB08-0.5	N	Selenium	1.9	0.042 J	0.042 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-0.5	N	Thallium	0.39	0.099 J	0.099 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-0.5	N	Vanadium	1.9	18.8 N	18.8	mg/kg	
E200.8/NONE	SO	JW-SB08-0.5	N	Zinc	0.77	47.5 N	47.5	mg/kg	
E200.8/NONE	SO	JW-SB08-15	N	Arsenic	0.42	1.4	1.4	mg/kg	
E200.8/NONE	SO	JW-SB08-15	N	Barium	4.2	103	103	mg/kg	
E200.8/NONE	SO	JW-SB08-15	N	Beryllium	0.42	0.31 J	0.31 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-15	N	Cobalt	0.42	6.4	6.4	mg/kg	
E200.8/NONE	SO	JW-SB08-15	N	Chromium	0.85	12.3 N	12.3	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB08-15	N	Copper	0.85	14.9	14.9	mg/kg	
E200.8/NONE	SO	JW-SB08-15	N	Manganese	4.2	255 D	255	mg/kg	
E200.8/NONE	SO	JW-SB08-15	N	Nickel	0.42	10.1	10.1	mg/kg	
E200.8/NONE	SO	JW-SB08-15	N	Lead	0.42	4.0 N	4.0	mg/kg	
E200.8/NONE	SO	JW-SB08-15	N	Thallium	0.42	0.14 J	0.14 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-15	N	Vanadium	2.1	26.7 N	26.7	mg/kg	
E200.8/NONE	SO	JW-SB08-15	N	Zinc	0.85	52.6 N	52.6	mg/kg	
E200.8/NONE	SO	JW-SB08-2	N	Arsenic	0.38	1.2	1.2	mg/kg	
E200.8/NONE	SO	JW-SB08-2	N	Barium	3.8	112	112	mg/kg	
E200.8/NONE	SO	JW-SB08-2	N	Beryllium	0.38	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-2	N	Cobalt	0.38	7.3	7.3	mg/kg	
E200.8/NONE	SO	JW-SB08-2	N	Chromium	0.76	12.1 N	12.1	mg/kg	
E200.8/NONE	SO	JW-SB08-2	N	Copper	0.76	12.3	12.3	mg/kg	
E200.8/NONE	SO	JW-SB08-2	N	Manganese	3.8	271 D	271	mg/kg	
E200.8/NONE	SO	JW-SB08-2	N	Nickel	0.38	9.9	9.9	mg/kg	
E200.8/NONE	SO	JW-SB08-2	N	Lead	0.38	3.7 N	3.7	mg/kg	
E200.8/NONE	SO	JW-SB08-2	N	Selenium	1.9	0.031 J	0.031 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-2	N	Thallium	0.38	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-2	N	Vanadium	1.9	29.3 N	29.3	mg/kg	
E200.8/NONE	SO	JW-SB08-2	N	Zinc	0.76	51.8 N	51.8	mg/kg	
E200.8/NONE	SO	JW-SB08-25	N	Arsenic	0.44	3.0	3.0	mg/kg	
E200.8/NONE	SO	JW-SB08-25	N	Barium	4.4	218	218	mg/kg	
E200.8/NONE	SO	JW-SB08-25	N	Beryllium	0.44	0.62	0.62	mg/kg	
E200.8/NONE	SO	JW-SB08-25	N	Cobalt	0.44	14.4	14.4	mg/kg	
E200.8/NONE	SO	JW-SB08-25	N	Chromium	0.87	27.0 N	27.0	mg/kg	
E200.8/NONE	SO	JW-SB08-25	N	Copper	0.87	31.8	31.8	mg/kg	
E200.8/NONE	SO	JW-SB08-25	N	Manganese	4.4	575 D	575	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB08-25	N	Nickel	0.44	21.8	21.8	mg/kg	
E200.8/NONE	SO	JW-SB08-25	N	Lead	0.44	6.1 N	6.1	mg/kg	
E200.8/NONE	SO	JW-SB08-25	N	Selenium	2.2	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-25	N	Thallium	0.44	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-25	N	Vanadium	2.2	58.4 N	58.4	mg/kg	
E200.8/NONE	SO	JW-SB08-25	N	Zinc	0.87	92.4 N	92.4	mg/kg	
E200.8/NONE	SO	JW-SB08-35	N	Arsenic	0.40	6.9	6.9	mg/kg	
E200.8/NONE	SO	JW-SB08-35	N	Barium	4.0	90.6	90.6	mg/kg	
E200.8/NONE	SO	JW-SB08-35	N	Beryllium	0.40	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-35	N	Cobalt	0.40	6.2	6.2	mg/kg	
E200.8/NONE	SO	JW-SB08-35	N	Chromium	0.81	10.0 N	10.0	mg/kg	
E200.8/NONE	SO	JW-SB08-35	N	Copper	0.81	17.4	17.4	mg/kg	
E200.8/NONE	SO	JW-SB08-35	N	Manganese	4.0	251 D	251	mg/kg	
E200.8/NONE	SO	JW-SB08-35	N	Nickel	0.40	7.9	7.9	mg/kg	
E200.8/NONE	SO	JW-SB08-35	N	Lead	0.40	2.5 N	2.5	mg/kg	
E200.8/NONE	SO	JW-SB08-35	N	Selenium	2.0	0.079 J	0.079 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-35	N	Thallium	0.40	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-35	N	Vanadium	2.0	33.2 N	33.2	mg/kg	
E200.8/NONE	SO	JW-SB08-35	N	Zinc	0.81	41.4 N	41.4	mg/kg	
E200.8/NONE	SO	JW-SB08-5	N	Arsenic	0.39	2.0	2.0	mg/kg	
E200.8/NONE	SO	JW-SB08-5	N	Barium	3.9	162	162	mg/kg	
E200.8/NONE	SO	JW-SB08-5	N	Beryllium	0.39	0.53	0.53	mg/kg	
E200.8/NONE	SO	JW-SB08-5	N	Cobalt	0.39	10.9	10.9	mg/kg	
E200.8/NONE	SO	JW-SB08-5	N	Chromium	0.77	19.6 N	19.6	mg/kg	
E200.8/NONE	SO	JW-SB08-5	N	Copper	0.77	22.3	22.3	mg/kg	
E200.8/NONE	SO	JW-SB08-5	N	Manganese	3.9	447 D	447	mg/kg	
E200.8/NONE	SO	JW-SB08-5	N	Nickel	0.39	15.4	15.4	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB08-5	N	Lead	0.39	5.6 N	5.6	mg/kg	
E200.8/NONE	SO	JW-SB08-5	N	Selenium	1.9	0.089 J	0.089 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-5	N	Thallium	0.39	0.22 J	0.22 J	mg/kg	TR
E200.8/NONE	SO	JW-SB08-5	N	Vanadium	1.9	43.4 N	43.4	mg/kg	
E200.8/NONE	SO	JW-SB08-5	N	Zinc	0.77	72.1 N	72.1	mg/kg	
E200.8/NONE	SO	JW-SB17-5	N	Arsenic	0.39	1.3	1.3	mg/kg	
E200.8/NONE	SO	JW-SB17-5	N	Barium	3.9	95.8	95.8	mg/kg	
E200.8/NONE	SO	JW-SB17-5	N	Beryllium	0.39	0.32 J	0.32 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-5	N	Cadmium	0.39	0.11 J	0.11 J	mg/kg	TR
E200.8/NONE	SO	JW-SB17-5	N	Cobalt	0.39	8.3	8.3	mg/kg	
E200.8/NONE	SO	JW-SB17-5	N	Chromium	0.79	12.6 N	12.6 J	mg/kg	M
E200.8/NONE	SO	JW-SB17-5	N	Copper	0.79	13.0	13.0	mg/kg	
E200.8/NONE	SO	JW-SB17-5	N	Manganese	3.9	285 D	285	mg/kg	
E200.8/NONE	SO	JW-SB17-5	N	Nickel	0.39	9.9	9.9	mg/kg	
E200.8/NONE	SO	JW-SB17-5	N	Lead	0.39	3.4 N	3.4 J	mg/kg	M
E200.8/NONE	SO	JW-SB17-5	N	Vanadium	2.0	29.7 N	29.7 J	mg/kg	M
E200.8/NONE	SO	JW-SB17-5	N	Zinc	0.79	45.6 N	45.6 J	mg/kg	M
E200.8/NONE	SO	JW-SB18-15	N	Arsenic	0.45	2.4	2.4	mg/kg	
E200.8/NONE	SO	JW-SB18-15	N	Barium	4.5	164	164	mg/kg	
E200.8/NONE	SO	JW-SB18-15	N	Beryllium	0.45	0.52	0.52	mg/kg	
E200.8/NONE	SO	JW-SB18-15	N	Cobalt	0.45	11.3	11.3	mg/kg	
E200.8/NONE	SO	JW-SB18-15	N	Chromium	0.91	21.2 N	21.2	mg/kg	
E200.8/NONE	SO	JW-SB18-15	N	Copper	0.91	25.4	25.4	mg/kg	
E200.8/NONE	SO	JW-SB18-15	N	Manganese	4.5	384 D	384	mg/kg	
E200.8/NONE	SO	JW-SB18-15	N	Nickel	0.45	17.0	17.0	mg/kg	
E200.8/NONE	SO	JW-SB18-15	N	Lead	0.45	5.4 N	5.4	mg/kg	
E200.8/NONE	SO	JW-SB18-15	N	Selenium	2.3	0.029 J	0.029 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB18-15	N	Thallium	0.45	0.24 J	0.24 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-15	N	Vanadium	2.3	46.0 N	46.0	mg/kg	
E200.8/NONE	SO	JW-SB18-15	N	Zinc	0.91	70.8 N	70.8	mg/kg	
E200.8/NONE	SO	JW-SB18-16	FD	Arsenic	0.42	1.7	1.7	mg/kg	
E200.8/NONE	SO	JW-SB18-16	FD	Barium	4.2	120	120	mg/kg	
E200.8/NONE	SO	JW-SB18-16	FD	Beryllium	0.42	0.36 J	0.36 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-16	FD	Cobalt	0.42	8.1	8.1	mg/kg	
E200.8/NONE	SO	JW-SB18-16	FD	Chromium	0.84	14.7 N	14.7	mg/kg	
E200.8/NONE	SO	JW-SB18-16	FD	Copper	0.84	16.0	16.0	mg/kg	
E200.8/NONE	SO	JW-SB18-16	FD	Manganese	4.2	522 D	522	mg/kg	
E200.8/NONE	SO	JW-SB18-16	FD	Nickel	0.42	11.5	11.5	mg/kg	
E200.8/NONE	SO	JW-SB18-16	FD	Lead	0.42	4.0 N	4.0	mg/kg	
E200.8/NONE	SO	JW-SB18-16	FD	Thallium	0.42	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-16	FD	Vanadium	2.1	34.5 N	34.5	mg/kg	
E200.8/NONE	SO	JW-SB18-16	FD	Zinc	0.84	53.8 N	53.8	mg/kg	
E200.8/NONE	SO	JW-SB18-2	N	Arsenic	0.39	1.2	1.2	mg/kg	
E200.8/NONE	SO	JW-SB18-2	N	Barium	3.9	126	126	mg/kg	
E200.8/NONE	SO	JW-SB18-2	N	Beryllium	0.39	0.31 J	0.31 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-2	N	Cobalt	0.39	7.7	7.7	mg/kg	
E200.8/NONE	SO	JW-SB18-2	N	Chromium	0.77	13.8 N	13.8	mg/kg	
E200.8/NONE	SO	JW-SB18-2	N	Copper	0.77	13.3	13.3	mg/kg	
E200.8/NONE	SO	JW-SB18-2	N	Manganese	3.9	287 D	287	mg/kg	
E200.8/NONE	SO	JW-SB18-2	N	Nickel	0.39	11.1	11.1	mg/kg	
E200.8/NONE	SO	JW-SB18-2	N	Lead	0.39	3.1 N	3.1	mg/kg	
E200.8/NONE	SO	JW-SB18-2	N	Selenium	1.9	0.058 J	0.058 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-2	N	Thallium	0.39	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-2	N	Vanadium	1.9	32.0 N	32.0	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB18-2	N	Zinc	0.77	53.0 N	53.0	mg/kg	
E200.8/NONE	SO	JW-SB18-25	N	Arsenic	0.47	3.2	3.2	mg/kg	
E200.8/NONE	SO	JW-SB18-25	N	Barium	4.7	254	254	mg/kg	
E200.8/NONE	SO	JW-SB18-25	N	Beryllium	0.47	0.69	0.69	mg/kg	
E200.8/NONE	SO	JW-SB18-25	N	Cobalt	0.47	15.7	15.7	mg/kg	
E200.8/NONE	SO	JW-SB18-25	N	Chromium	0.94	29.4 N	29.4	mg/kg	
E200.8/NONE	SO	JW-SB18-25	N	Copper	0.94	36.4	36.4	mg/kg	
E200.8/NONE	SO	JW-SB18-25	N	Manganese	4.7	635 D	635	mg/kg	
E200.8/NONE	SO	JW-SB18-25	N	Nickel	0.47	23.1	23.1	mg/kg	
E200.8/NONE	SO	JW-SB18-25	N	Lead	0.47	6.4 N	6.4	mg/kg	
E200.8/NONE	SO	JW-SB18-25	N	Selenium	2.4	0.31 J	0.31 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-25	N	Thallium	0.47	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-25	N	Vanadium	2.4	61.7 N	61.7	mg/kg	
E200.8/NONE	SO	JW-SB18-25	N	Zinc	0.94	99.0 N	99.0	mg/kg	
E200.8/NONE	SO	JW-SB18-35	N	Arsenic	0.37	7.1	7.1	mg/kg	
E200.8/NONE	SO	JW-SB18-35	N	Barium	3.7	68.1	68.1	mg/kg	
E200.8/NONE	SO	JW-SB18-35	N	Beryllium	0.37	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-35	N	Cobalt	0.37	4.3	4.3	mg/kg	
E200.8/NONE	SO	JW-SB18-35	N	Chromium	0.74	6.8 N	6.8	mg/kg	
E200.8/NONE	SO	JW-SB18-35	N	Copper	0.74	6.8	6.8	mg/kg	
E200.8/NONE	SO	JW-SB18-35	N	Manganese	3.7	183 D	183	mg/kg	
E200.8/NONE	SO	JW-SB18-35	N	Nickel	0.37	5.7	5.7	mg/kg	
E200.8/NONE	SO	JW-SB18-35	N	Lead	0.37	1.8 N	1.8	mg/kg	
E200.8/NONE	SO	JW-SB18-35	N	Selenium	1.9	0.039 J	0.039 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-35	N	Thallium	0.37	0.089 J	0.089 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-35	N	Vanadium	1.9	16.8 N	16.8	mg/kg	
E200.8/NONE	SO	JW-SB18-35	N	Zinc	0.74	29.2 N	29.2	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB18-5	N	Arsenic	0.40	1.9	1.9	mg/kg	
E200.8/NONE	SO	JW-SB18-5	N	Barium	4.0	128	128	mg/kg	
E200.8/NONE	SO	JW-SB18-5	N	Beryllium	0.40	0.43	0.43	mg/kg	
E200.8/NONE	SO	JW-SB18-5	N	Cobalt	0.40	9.1	9.1	mg/kg	
E200.8/NONE	SO	JW-SB18-5	N	Chromium	0.80	16.4 N	16.4	mg/kg	
E200.8/NONE	SO	JW-SB18-5	N	Copper	0.80	18.9	18.9	mg/kg	
E200.8/NONE	SO	JW-SB18-5	N	Manganese	4.0	369 D	369	mg/kg	
E200.8/NONE	SO	JW-SB18-5	N	Nickel	0.40	13.4	13.4	mg/kg	
E200.8/NONE	SO	JW-SB18-5	N	Lead	0.40	4.6 N	4.6	mg/kg	
E200.8/NONE	SO	JW-SB18-5	N	Selenium	2.0	0.080 J	0.080 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-5	N	Thallium	0.40	0.19 J	0.19 J	mg/kg	TR
E200.8/NONE	SO	JW-SB18-5	N	Vanadium	2.0	37.7 N	37.7	mg/kg	
E200.8/NONE	SO	JW-SB18-5	N	Zinc	0.80	61.9 N	61.9	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SW3

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SX4

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9SX4, Certified - 4/7/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9SX4

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	19	1
SW7471B/NONE	19	1

AUTOMATED DATA REVIEW SUMMARY for MY9SX4

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9SX4. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9SX4

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 1 results (0.71%) out of the 140 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

No COC receipt issues or calibration anomalies were noted.

Data qualifiers were added for minor serial dilution recoveries (A).

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 12:08:53 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9SX4

Batch Report

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75136-CC	PB82105	NA	JW-SB/SG10	SO	JW-SB10-0.5	G1483-02	LB75136-S0	1/1	11-Mar-2015 12:40 PM	13-Mar-2015 12:00 PM	13-Mar-2015 2:37 PM	N
	PB82105	NA	JW-SB/SG10	SO	JW-SB10-15	G1483-07	LB75136-S0	1/1	11-Mar-2015 1:15 PM	13-Mar-2015 12:00 PM	13-Mar-2015 3:01 PM	N
	PB82105	NA	JW-SB/SG10	SO	JW-SB10-2	G1483-04	LB75136-S0	1/1	11-Mar-2015 1:00 PM	13-Mar-2015 12:00 PM	13-Mar-2015 2:45 PM	LR
	PB82105	NA	JW-SB/SG10	SO	JW-SB10-2	G1483-05	LB75136-S0	1/1	11-Mar-2015 1:00 PM	13-Mar-2015 12:00 PM	13-Mar-2015 2:49 PM	MS
	PB82105	NA	JW-SB/SG10	SO	JW-SB10-2	G1483-03	LB75136-S0	1/1	11-Mar-2015 1:00 PM	13-Mar-2015 12:00 PM	13-Mar-2015 2:41 PM	N
	PB82105	NA	JW-SB/SG10	SO	JW-SB10-25	G1483-08	LB75136-S0	1/1	11-Mar-2015 1:20 PM	13-Mar-2015 12:00 PM	13-Mar-2015 3:05 PM	N
	PB82105	NA	JW-SB/SG10	SO	JW-SB10-35	G1483-09	LB75136-S0	1/1	11-Mar-2015 1:40 PM	13-Mar-2015 12:00 PM	13-Mar-2015 3:09 PM	N
	PB82105	NA	JW-SB/SG10	SO	JW-SB10-5	G1483-06	LB75136-S0	1/1	11-Mar-2015 1:05 PM	13-Mar-2015 12:00 PM	13-Mar-2015 2:57 PM	N
	PB82105	NA	JW-SB/SG16	SO	JW-SB16-0.5	G1483-10	LB75136-S0	1/1	10-Mar-2015 10:00 AM	13-Mar-2015 12:00 PM	13-Mar-2015 3:13 PM	N
	PB82105	NA	JW-SB/SG16	SO	JW-SB16-0.6	G1483-11	LB75136-S0	1/1	10-Mar-2015 10:05 AM	13-Mar-2015 12:00 PM	13-Mar-2015 3:17 PM	FD
	PB82105	NA	JW-SB/SG16	SO	JW-SB16-15	G1483-14	LB75136-S0	1/1	10-Mar-2015 11:15 AM	13-Mar-2015 12:00 PM	13-Mar-2015 3:29 PM	N
	PB82105	NA	JW-SB/SG16	SO	JW-SB16-2	G1483-13	LB75136-S0	1/1	10-Mar-2015 10:15 AM	13-Mar-2015 12:00 PM	13-Mar-2015 3:25 PM	N
	PB82105	NA	JW-SB/SG16	SO	JW-SB16-25	G1483-15	LB75136-S0	1/1	10-Mar-2015 11:20 AM	13-Mar-2015 12:00 PM	13-Mar-2015 3:33 PM	N
	PB82105	NA	JW-SB/SG16	SO	JW-SB16-35	G1483-16	LB75136-S0	1/1	10-Mar-2015 11:30 AM	13-Mar-2015 12:00 PM	13-Mar-2015 3:37 PM	N
	PB82105	NA	JW-SB/SG16	SO	JW-SB16-5	G1483-12	LB75136-S0	1/1	10-Mar-2015 10:10 AM	13-Mar-2015 12:00 PM	13-Mar-2015 3:21 PM	N
	PB82105	NA	JW-SB/SG17	SO	JW-SB17-0.5	G1483-17	LB75136-S0	1/1	11-Mar-2015 8:45 AM	13-Mar-2015 12:00 PM	13-Mar-2015 3:41 PM	N
	PB82105	NA	JW-SB/SG17	SO	JW-SB17-2	G1483-18	LB75136-S0	1/1	11-Mar-2015 8:50 AM	13-Mar-2015 12:00 PM	13-Mar-2015 4:02 PM	N
	PB82105	NA	JW-SB/SG17	SO	JW-SB17-25	G1483-20	LB75136-S0	1/1	11-Mar-2015 9:25 AM	13-Mar-2015 12:00 PM	13-Mar-2015 4:10 PM	N
	PB82105	NA	JW-SB/SG17	SO	JW-SB17-35	G1483-21	LB75136-S0	1/1	11-Mar-2015 9:35 AM	13-Mar-2015 12:00 PM	13-Mar-2015 4:27 PM	N
	PB82105	NA	JW-SB/SG18	SO	JW-SB18-0.5	G1483-22	LB75136-S0	1/1	11-Mar-2015 10:00 AM	13-Mar-2015 12:00 PM	13-Mar-2015 4:31 PM	N
	PB82105	NA	JW-SB/SG19	SO	JW-SB19-35	G1483-01	LB75136-S0	1/1	09-Mar-2015 11:30 AM	13-Mar-2015 12:00 PM	13-Mar-2015 2:33 PM	N
	PB82105	NA	LABQC	SQ	LABQC	PB82105BS	LB75136-S0	1/1	13-Mar-2015 4:39 PM	13-Mar-2015 4:39 PM	13-Mar-2015 4:39 PM	BS

AUTOMATED DATA REVIEW SUMMARY for MY9SX4

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75136-CC	PB82105	NA	LABQC	SQ	LABQC	PB82105BL	LB75136-S0	1/1	13-Mar-2015 2:25 PM	13-Mar-2015 2:25 PM	13-Mar-2015 2:25 PM	LB
LB75160-CC	PB82105	NA	JW-SB/SG17	SO	JW-SB17-15	G1483-19	LB75160-S0	1/1	11-Mar-2015 9:15 AM	13-Mar-2015 12:00 PM	16-Mar-2015 12:15 PM	N

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75119-CC	PB82095	NA	JW-SB/SG10	SO	JW-SB10-0.5	G1483-02	LB75119-S0	1/1	11-Mar-2015 12:40 PM	12-Mar-2015 12:00 PM	13-Mar-2015 10:58 AM	N
	PB82095	NA	JW-SB/SG10	SO	JW-SB10-15	G1483-07	LB75119-S0	1/1	11-Mar-2015 1:15 PM	12-Mar-2015 12:00 PM	13-Mar-2015 11:11 AM	N
	PB82095	NA	JW-SB/SG10	SO	JW-SB10-2	G1483-04	LB75119-S0	1/1	11-Mar-2015 1:00 PM	12-Mar-2015 12:00 PM	13-Mar-2015 11:05 AM	LR
	PB82095	NA	JW-SB/SG10	SO	JW-SB10-2	G1483-05	LB75119-S0	1/1	11-Mar-2015 1:00 PM	12-Mar-2015 12:00 PM	13-Mar-2015 11:07 AM	MS
	PB82095	NA	JW-SB/SG10	SO	JW-SB10-2	G1483-03	LB75119-S0	1/1	11-Mar-2015 1:00 PM	12-Mar-2015 12:00 PM	13-Mar-2015 11:00 AM	N
	PB82095	NA	JW-SB/SG10	SO	JW-SB10-25	G1483-08	LB75119-S0	1/1	11-Mar-2015 1:20 PM	12-Mar-2015 12:00 PM	13-Mar-2015 11:13 AM	N
	PB82095	NA	JW-SB/SG10	SO	JW-SB10-35	G1483-09	LB75119-S0	1/1	11-Mar-2015 1:40 PM	12-Mar-2015 12:00 PM	13-Mar-2015 11:15 AM	N
	PB82095	NA	JW-SB/SG10	SO	JW-SB10-5	G1483-06	LB75119-S0	1/1	11-Mar-2015 1:05 PM	12-Mar-2015 12:00 PM	13-Mar-2015 11:09 AM	N
	PB82095	NA	JW-SB/SG16	SO	JW-SB16-0.5	G1483-10	LB75119-S0	1/1	10-Mar-2015 10:00 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:17 AM	N
	PB82095	NA	JW-SB/SG16	SO	JW-SB16-0.6	G1483-11	LB75119-S0	1/1	10-Mar-2015 10:05 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:20 AM	FD
	PB82095	NA	JW-SB/SG16	SO	JW-SB16-15	G1483-14	LB75119-S0	1/1	10-Mar-2015 11:15 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:26 AM	N
	PB82095	NA	JW-SB/SG16	SO	JW-SB16-2	G1483-13	LB75119-S0	1/1	10-Mar-2015 10:15 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:24 AM	N
	PB82095	NA	JW-SB/SG16	SO	JW-SB16-25	G1483-15	LB75119-S0	1/1	10-Mar-2015 11:20 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:28 AM	N
	PB82095	NA	JW-SB/SG16	SO	JW-SB16-35	G1483-16	LB75119-S0	1/1	10-Mar-2015 11:30 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:30 AM	N
	PB82095	NA	JW-SB/SG16	SO	JW-SB16-5	G1483-12	LB75119-S0	1/1	10-Mar-2015 10:10 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:22 AM	N
	PB82095	NA	JW-SB/SG17	SO	JW-SB17-0.5	G1483-17	LB75119-S0	1/1	11-Mar-2015 8:45 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:32 AM	N
	PB82095	NA	JW-SB/SG17	SO	JW-SB17-15	G1483-19	LB75119-S0	1/1	11-Mar-2015 9:15 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:36 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SX4

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75119-CC	PB82095	NA	JW-SB/SG17	SO	JW-SB17-2	G1483-18	LB75119-S0	1/1	11-Mar-2015 8:50 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:34 AM	N
	PB82095	NA	JW-SB/SG17	SO	JW-SB17-25	G1483-20	LB75119-S0	1/1	11-Mar-2015 9:25 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:43 AM	N
	PB82095	NA	JW-SB/SG17	SO	JW-SB17-35	G1483-21	LB75119-S0	1/1	11-Mar-2015 9:35 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:45 AM	N
	PB82095	NA	JW-SB/SG18	SO	JW-SB18-0.5	G1483-22	LB75119-S0	1/1	11-Mar-2015 10:00 AM	12-Mar-2015 12:00 PM	13-Mar-2015 11:47 AM	N
	PB82095	NA	JW-SB/SG19	SO	JW-SB19-35	G1483-01	LB75119-S0	1/1	09-Mar-2015 11:30 AM	12-Mar-2015 12:00 PM	13-Mar-2015 10:56 AM	N
	PB82095	NA	LABQC	SQ	LABQC	PB82095BL	LB75119-S0	1/1	13-Mar-2015 10:54 AM	13-Mar-2015 10:54 AM	13-Mar-2015 10:54 AM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9SX4

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB10-2	N	Iron	7.6	17600 E	17600 J	mg/kg	A
E200.7/NONE	SO	JW-SB10-2	N	Sodium	379	283 J	283 J	mg/kg	TR
E200.7/NONE	SO	JW-SB16-0.5	N	Sodium	423	297 J	297 J	mg/kg	TR
E200.7/NONE	SO	JW-SB16-0.6	FD	Sodium	401	298 J	298 J	mg/kg	TR
E200.7/NONE	SO	JW-SB16-2	N	Sodium	418	346 J	346 J	mg/kg	TR
E200.7/NONE	SO	JW-SB16-5	N	Sodium	412	268 J	268 J	mg/kg	TR
E200.7/NONE	SO	JW-SB17-0.5	N	Sodium	400	351 J	351 J	mg/kg	TR
E200.7/NONE	SO	JW-SB17-2	N	Sodium	366	251 J	251 J	mg/kg	TR
E200.7/NONE	SO	JW-SB17-35	N	Sodium	385	346 J	346 J	mg/kg	TR
E200.7/NONE	SO	JW-SB18-0.5	N	Sodium	373	363 J	363 J	mg/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB10-0.5	N	Mercury	0.11	0.043 J	0.043 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB10-15	N	Mercury	0.11	0.054 J	0.054 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB10-2	N	Mercury	0.096	0.048 J	0.048 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB10-25	N	Mercury	0.12	0.061 J	0.061 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB10-35	N	Mercury	0.097	0.032 J	0.032 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SX4

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB10-5	N	Mercury	0.10	0.042 J	0.042 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-0.5	N	Mercury	0.12	0.047 J	0.047 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-0.6	FD	Mercury	0.10	0.074 J	0.074 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-15	N	Mercury	0.12	0.028 J	0.028 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-2	N	Mercury	0.12	0.037 J	0.037 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-25	N	Mercury	0.12	0.026 J	0.026 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-35	N	Mercury	0.11	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-5	N	Mercury	0.10	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB17-15	N	Mercury	0.11	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB17-2	N	Mercury	0.095	0.024 J	0.024 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB17-25	N	Mercury	0.13	0.10 J	0.10 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB17-35	N	Mercury	0.10	0.078 J	0.078 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB18-0.5	N	Mercury	0.10	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB19-35	N	Mercury	0.10	0.042 J	0.042 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB10-0.5	N	Aluminum	15.8	11200	11200	mg/kg	
E200.7/NONE	SO	JW-SB10-0.5	N	Calcium	395	17900	17900	mg/kg	
E200.7/NONE	SO	JW-SB10-0.5	N	Iron	7.9	19500 E	19500	mg/kg	
E200.7/NONE	SO	JW-SB10-0.5	N	Potassium	395	3790	3790	mg/kg	
E200.7/NONE	SO	JW-SB10-0.5	N	Magnesium	395	6520	6520	mg/kg	
E200.7/NONE	SO	JW-SB10-0.5	N	Sodium	395	456	456	mg/kg	
E200.7/NONE	SO	JW-SB10-15	N	Aluminum	16.8	17800	17800	mg/kg	
E200.7/NONE	SO	JW-SB10-15	N	Calcium	421	9710	9710	mg/kg	
E200.7/NONE	SO	JW-SB10-15	N	Iron	8.4	28800 E	28800	mg/kg	
E200.7/NONE	SO	JW-SB10-15	N	Potassium	421	6070	6070	mg/kg	
E200.7/NONE	SO	JW-SB10-15	N	Magnesium	421	10600	10600	mg/kg	
E200.7/NONE	SO	JW-SB10-15	N	Sodium	421	1880	1880	mg/kg	
E200.7/NONE	SO	JW-SB10-2	N	Aluminum	15.2	9540	9540	mg/kg	
E200.7/NONE	SO	JW-SB10-2	N	Calcium	379	5780	5780	mg/kg	
E200.7/NONE	SO	JW-SB10-2	N	Iron	7.6	17600 E	17600 J	mg/kg	A
E200.7/NONE	SO	JW-SB10-2	N	Potassium	379	3920	3920	mg/kg	
E200.7/NONE	SO	JW-SB10-2	N	Magnesium	379	5350	5350	mg/kg	
E200.7/NONE	SO	JW-SB10-2	N	Sodium	379	283 J	283 J	mg/kg	TR
E200.7/NONE	SO	JW-SB10-25	N	Aluminum	17.8	19700	19700	mg/kg	
E200.7/NONE	SO	JW-SB10-25	N	Calcium	445	17200	17200	mg/kg	
E200.7/NONE	SO	JW-SB10-25	N	Iron	8.9	30700 E	30700	mg/kg	
E200.7/NONE	SO	JW-SB10-25	N	Potassium	445	5810	5810	mg/kg	
E200.7/NONE	SO	JW-SB10-25	N	Magnesium	445	11300	11300	mg/kg	
E200.7/NONE	SO	JW-SB10-25	N	Sodium	445	2410	2410	mg/kg	
E200.7/NONE	SO	JW-SB10-35	N	Aluminum	16.2	7360	7360	mg/kg	
E200.7/NONE	SO	JW-SB10-35	N	Calcium	404	3700	3700	mg/kg	
E200.7/NONE	SO	JW-SB10-35	N	Iron	8.1	14800 E	14800	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB10-35	N	Potassium	404	2250	2250	mg/kg	
E200.7/NONE	SO	JW-SB10-35	N	Magnesium	404	4370	4370	mg/kg	
E200.7/NONE	SO	JW-SB10-35	N	Sodium	404	586	586	mg/kg	
E200.7/NONE	SO	JW-SB10-5	N	Aluminum	17.2	14600	14600	mg/kg	
E200.7/NONE	SO	JW-SB10-5	N	Calcium	431	7630	7630	mg/kg	
E200.7/NONE	SO	JW-SB10-5	N	Iron	8.6	24800 E	24800	mg/kg	
E200.7/NONE	SO	JW-SB10-5	N	Potassium	431	4500	4500	mg/kg	
E200.7/NONE	SO	JW-SB10-5	N	Magnesium	431	7480	7480	mg/kg	
E200.7/NONE	SO	JW-SB10-5	N	Sodium	431	459	459	mg/kg	
E200.7/NONE	SO	JW-SB16-0.5	N	Aluminum	16.9	11300	11300	mg/kg	
E200.7/NONE	SO	JW-SB16-0.5	N	Calcium	423	5700	5700	mg/kg	
E200.7/NONE	SO	JW-SB16-0.5	N	Iron	8.5	20800 E	20800	mg/kg	
E200.7/NONE	SO	JW-SB16-0.5	N	Potassium	423	4180	4180	mg/kg	
E200.7/NONE	SO	JW-SB16-0.5	N	Magnesium	423	5990	5990	mg/kg	
E200.7/NONE	SO	JW-SB16-0.5	N	Sodium	423	297 J	297 J	mg/kg	TR
E200.7/NONE	SO	JW-SB16-0.6	FD	Aluminum	16.0	10400	10400	mg/kg	
E200.7/NONE	SO	JW-SB16-0.6	FD	Calcium	401	5160	5160	mg/kg	
E200.7/NONE	SO	JW-SB16-0.6	FD	Iron	8.0	18900 E	18900	mg/kg	
E200.7/NONE	SO	JW-SB16-0.6	FD	Potassium	401	3880	3880	mg/kg	
E200.7/NONE	SO	JW-SB16-0.6	FD	Magnesium	401	5530	5530	mg/kg	
E200.7/NONE	SO	JW-SB16-0.6	FD	Sodium	401	298 J	298 J	mg/kg	TR
E200.7/NONE	SO	JW-SB16-15	N	Aluminum	19.0	16000	16000	mg/kg	
E200.7/NONE	SO	JW-SB16-15	N	Calcium	475	10700	10700	mg/kg	
E200.7/NONE	SO	JW-SB16-15	N	Iron	9.5	25900 E	25900	mg/kg	
E200.7/NONE	SO	JW-SB16-15	N	Potassium	475	4350	4350	mg/kg	
E200.7/NONE	SO	JW-SB16-15	N	Magnesium	475	8390	8390	mg/kg	
E200.7/NONE	SO	JW-SB16-15	N	Sodium	475	628	628	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB16-2	N	Aluminum	16.7	11500	11500	mg/kg	
E200.7/NONE	SO	JW-SB16-2	N	Calcium	418	6550	6550	mg/kg	
E200.7/NONE	SO	JW-SB16-2	N	Iron	8.4	20900 E	20900	mg/kg	
E200.7/NONE	SO	JW-SB16-2	N	Potassium	418	3320	3320	mg/kg	
E200.7/NONE	SO	JW-SB16-2	N	Magnesium	418	5780	5780	mg/kg	
E200.7/NONE	SO	JW-SB16-2	N	Sodium	418	346 J	346 J	mg/kg	TR
E200.7/NONE	SO	JW-SB16-25	N	Aluminum	18.9	21300	21300	mg/kg	
E200.7/NONE	SO	JW-SB16-25	N	Calcium	473	16100	16100	mg/kg	
E200.7/NONE	SO	JW-SB16-25	N	Iron	9.5	33500 E	33500	mg/kg	
E200.7/NONE	SO	JW-SB16-25	N	Potassium	473	6050	6050	mg/kg	
E200.7/NONE	SO	JW-SB16-25	N	Magnesium	473	12000	12000	mg/kg	
E200.7/NONE	SO	JW-SB16-25	N	Sodium	473	1860	1860	mg/kg	
E200.7/NONE	SO	JW-SB16-35	N	Aluminum	14.9	7720	7720	mg/kg	
E200.7/NONE	SO	JW-SB16-35	N	Calcium	371	4230	4230	mg/kg	
E200.7/NONE	SO	JW-SB16-35	N	Iron	7.4	14900 E	14900	mg/kg	
E200.7/NONE	SO	JW-SB16-35	N	Potassium	371	2540	2540	mg/kg	
E200.7/NONE	SO	JW-SB16-35	N	Magnesium	371	4430	4430	mg/kg	
E200.7/NONE	SO	JW-SB16-35	N	Sodium	371	429	429	mg/kg	
E200.7/NONE	SO	JW-SB16-5	N	Aluminum	16.5	11500	11500	mg/kg	
E200.7/NONE	SO	JW-SB16-5	N	Calcium	412	5890	5890	mg/kg	
E200.7/NONE	SO	JW-SB16-5	N	Iron	8.2	21300 E	21300	mg/kg	
E200.7/NONE	SO	JW-SB16-5	N	Potassium	412	4440	4440	mg/kg	
E200.7/NONE	SO	JW-SB16-5	N	Magnesium	412	6350	6350	mg/kg	
E200.7/NONE	SO	JW-SB16-5	N	Sodium	412	268 J	268 J	mg/kg	TR
E200.7/NONE	SO	JW-SB17-0.5	N	Aluminum	16.0	11300	11300	mg/kg	
E200.7/NONE	SO	JW-SB17-0.5	N	Calcium	400	5860	5860	mg/kg	
E200.7/NONE	SO	JW-SB17-0.5	N	Iron	8.0	20100 E	20100	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB17-0.5	N	Potassium	400	4100	4100	mg/kg	
E200.7/NONE	SO	JW-SB17-0.5	N	Magnesium	400	6180	6180	mg/kg	
E200.7/NONE	SO	JW-SB17-0.5	N	Sodium	400	351 J	351 J	mg/kg	TR
E200.7/NONE	SO	JW-SB17-15	N	Aluminum	17.3	15900	15900	mg/kg	
E200.7/NONE	SO	JW-SB17-15	N	Calcium	431	9470	9470	mg/kg	
E200.7/NONE	SO	JW-SB17-15	N	Iron	8.6	26500 E	26500	mg/kg	
E200.7/NONE	SO	JW-SB17-15	N	Potassium	431	5180	5180	mg/kg	
E200.7/NONE	SO	JW-SB17-15	N	Magnesium	431	9520	9520	mg/kg	
E200.7/NONE	SO	JW-SB17-15	N	Sodium	431	583	583	mg/kg	
E200.7/NONE	SO	JW-SB17-2	N	Aluminum	14.6	8980	8980	mg/kg	
E200.7/NONE	SO	JW-SB17-2	N	Calcium	366	4180	4180	mg/kg	
E200.7/NONE	SO	JW-SB17-2	N	Iron	7.3	16400 E	16400	mg/kg	
E200.7/NONE	SO	JW-SB17-2	N	Potassium	366	3750	3750	mg/kg	
E200.7/NONE	SO	JW-SB17-2	N	Magnesium	366	5070	5070	mg/kg	
E200.7/NONE	SO	JW-SB17-2	N	Sodium	366	251 J	251 J	mg/kg	TR
E200.7/NONE	SO	JW-SB17-25	N	Aluminum	19.2	21700	21700	mg/kg	
E200.7/NONE	SO	JW-SB17-25	N	Calcium	480	18800	18800	mg/kg	
E200.7/NONE	SO	JW-SB17-25	N	Iron	9.6	33200 E	33200	mg/kg	
E200.7/NONE	SO	JW-SB17-25	N	Potassium	480	5990	5990	mg/kg	
E200.7/NONE	SO	JW-SB17-25	N	Magnesium	480	11900	11900	mg/kg	
E200.7/NONE	SO	JW-SB17-25	N	Sodium	480	1830	1830	mg/kg	
E200.7/NONE	SO	JW-SB17-35	N	Aluminum	15.4	7130	7130	mg/kg	
E200.7/NONE	SO	JW-SB17-35	N	Calcium	385	4580	4580	mg/kg	
E200.7/NONE	SO	JW-SB17-35	N	Iron	7.7	13200 E	13200	mg/kg	
E200.7/NONE	SO	JW-SB17-35	N	Potassium	385	2400	2400	mg/kg	
E200.7/NONE	SO	JW-SB17-35	N	Magnesium	385	4000	4000	mg/kg	
E200.7/NONE	SO	JW-SB17-35	N	Sodium	385	346 J	346 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB18-0.5	N	Aluminum	14.9	11700	11700	mg/kg	
E200.7/NONE	SO	JW-SB18-0.5	N	Calcium	373	6460	6460	mg/kg	
E200.7/NONE	SO	JW-SB18-0.5	N	Iron	7.5	19900 E	19900	mg/kg	
E200.7/NONE	SO	JW-SB18-0.5	N	Potassium	373	3860	3860	mg/kg	
E200.7/NONE	SO	JW-SB18-0.5	N	Magnesium	373	6050	6050	mg/kg	
E200.7/NONE	SO	JW-SB18-0.5	N	Sodium	373	363 J	363 J	mg/kg	TR
E200.7/NONE	SO	JW-SB19-35	N	Aluminum	15.8	7760	7760	mg/kg	
E200.7/NONE	SO	JW-SB19-35	N	Calcium	396	8460	8460	mg/kg	
E200.7/NONE	SO	JW-SB19-35	N	Iron	7.9	16000 E	16000	mg/kg	
E200.7/NONE	SO	JW-SB19-35	N	Potassium	396	2530	2530	mg/kg	
E200.7/NONE	SO	JW-SB19-35	N	Magnesium	396	4730	4730	mg/kg	
E200.7/NONE	SO	JW-SB19-35	N	Sodium	396	588	588	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB10-0.5	N	Mercury	0.11	0.043 J	0.043 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB10-15	N	Mercury	0.11	0.054 J	0.054 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB10-2	N	Mercury	0.096	0.048 J	0.048 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB10-25	N	Mercury	0.12	0.061 J	0.061 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB10-35	N	Mercury	0.097	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB10-5	N	Mercury	0.10	0.042 J	0.042 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-0.5	N	Mercury	0.12	0.047 J	0.047 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-0.6	FD	Mercury	0.10	0.074 J	0.074 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-15	N	Mercury	0.12	0.028 J	0.028 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-2	N	Mercury	0.12	0.037 J	0.037 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-25	N	Mercury	0.12	0.026 J	0.026 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-35	N	Mercury	0.11	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB16-5	N	Mercury	0.10	0.032 J	0.032 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SX4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB17-0.5	N	Mercury	0.10	0.18	0.18	mg/kg	
SW7471B/NONE	SO	JW-SB17-15	N	Mercury	0.11	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB17-2	N	Mercury	0.095	0.024 J	0.024 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB17-25	N	Mercury	0.13	0.10 J	0.10 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB17-35	N	Mercury	0.10	0.078 J	0.078 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB18-0.5	N	Mercury	0.10	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB19-35	N	Mercury	0.10	0.042 J	0.042 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SX4

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9SY1, Certified - 4/8/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9SY1

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	18	2
SW7471B/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9SY1. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 2 results (1.43%) out of the 140 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

A sample shipment issue was noted in the lab narrative but no data qalification is warranted. No calibration anomalies were noted.

Data qualifiers were added for minor field duplicate imprecision (D5).

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 12:18:06 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

Batch Report

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75257-CC	PB82247	NA	JW-SB/SG20	SO	JW-SB20-0.5	G1564-17	LB75257-S0	1/1	18-Mar-2015 8:10 AM	23-Mar-2015 12:00 PM	23-Mar-2015 5:04 PM	N
	PB82247	NA	JW-SB/SG20	SO	JW-SB20-15	G1564-20	LB75257-S0	1/1	18-Mar-2015 8:30 AM	23-Mar-2015 12:00 PM	23-Mar-2015 5:24 PM	N
	PB82247	NA	JW-SB/SG20	SO	JW-SB20-2	G1564-18	LB75257-S0	1/1	18-Mar-2015 8:15 AM	23-Mar-2015 12:00 PM	23-Mar-2015 5:16 PM	N
	PB82247	NA	JW-SB/SG20	SO	JW-SB20-25	G1564-21	LB75257-S0	1/1	18-Mar-2015 8:35 AM	23-Mar-2015 12:00 PM	23-Mar-2015 5:28 PM	N
	PB82247	NA	JW-SB/SG20	SO	JW-SB20-35	G1564-22	LB75257-S0	1/1	18-Mar-2015 8:40 AM	23-Mar-2015 12:00 PM	23-Mar-2015 5:32 PM	N
	PB82247	NA	JW-SB/SG20	SO	JW-SB20-5	G1564-19	LB75257-S0	1/1	18-Mar-2015 8:20 AM	23-Mar-2015 12:00 PM	23-Mar-2015 5:20 PM	N
	PB82247	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1564-02	LB75257-S0	1/1	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:01 PM	LR
	PB82247	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1564-03	LB75257-S0	1/1	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:05 PM	MS
	PB82247	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1564-01	LB75257-S0	1/1	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	23-Mar-2015 3:57 PM	N
	PB82247	NA	JW-SB/SG21	SO	JW-SB21-15	G1564-07	LB75257-S0	1/1	17-Mar-2015 11:15 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:24 PM	N
	PB82247	NA	JW-SB/SG21	SO	JW-SB21-2	G1564-04	LB75257-S0	1/1	17-Mar-2015 10:50 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:12 PM	N
	PB82247	NA	JW-SB/SG21	SO	JW-SB21-25	G1564-08	LB75257-S0	1/1	17-Mar-2015 11:20 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:28 PM	N
	PB82247	NA	JW-SB/SG21	SO	JW-SB21-35	G1564-09	LB75257-S0	1/1	17-Mar-2015 11:30 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:32 PM	N
	PB82247	NA	JW-SB/SG21	SO	JW-SB21-5	G1564-05	LB75257-S0	1/1	17-Mar-2015 11:00 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:16 PM	N
	PB82247	NA	JW-SB/SG21	SO	JW-SB21-6	G1564-06	LB75257-S0	1/1	17-Mar-2015 11:05 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:20 PM	FD
	PB82247	NA	JW-SB/SG24	SO	JW-SB24-0.5	G1564-10	LB75257-S0	1/1	17-Mar-2015 8:30 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:36 PM	N
	PB82247	NA	JW-SB/SG24	SO	JW-SB24-15	G1564-13	LB75257-S0	1/1	17-Mar-2015 9:00 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:48 PM	N
	PB82247	NA	JW-SB/SG24	SO	JW-SB24-2	G1564-11	LB75257-S0	1/1	17-Mar-2015 8:45 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:40 PM	N
	PB82247	NA	JW-SB/SG24	SO	JW-SB24-25	G1564-14	LB75257-S0	1/1	17-Mar-2015 9:05 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:52 PM	N
	PB82247	NA	JW-SB/SG24	SO	JW-SB24-26	G1564-15	LB75257-S0	1/1	17-Mar-2015 9:10 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:56 PM	FD
	PB82247	NA	JW-SB/SG24	SO	JW-SB24-35	G1564-16	LB75257-S0	1/1	17-Mar-2015 9:20 AM	23-Mar-2015 12:00 PM	23-Mar-2015 5:00 PM	N
	PB82247	NA	JW-SB/SG24	SO	JW-SB24-5	G1564-12	LB75257-S0	1/1	17-Mar-2015 8:50 AM	23-Mar-2015 12:00 PM	23-Mar-2015 4:44 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75257-CC	PB82247	NA	LABQC	SQ	LABQC	PB82247BS	LB75257-S0	1/1	23-Mar-2015 3:53 PM	23-Mar-2015 3:53 PM	23-Mar-2015 3:53 PM	BS
	PB82247	NA	LABQC	SQ	LABQC	PB82247BL	LB75257-S0	1/1	23-Mar-2015 3:48 PM	23-Mar-2015 3:48 PM	23-Mar-2015 3:48 PM	LB

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75258-CC	PB82257	NA	JW-SB/SG20	SO	JW-SB20-0.5	G1564-17	LB75258-S0	1/1	18-Mar-2015 8:10 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:48 AM	N
	PB82257	NA	JW-SB/SG20	SO	JW-SB20-15	G1564-20	LB75258-S0	1/1	18-Mar-2015 8:30 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:59 AM	N
	PB82257	NA	JW-SB/SG20	SO	JW-SB20-2	G1564-18	LB75258-S0	1/1	18-Mar-2015 8:15 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:50 AM	N
	PB82257	NA	JW-SB/SG20	SO	JW-SB20-25	G1564-21	LB75258-S0	1/1	18-Mar-2015 8:35 AM	23-Mar-2015 12:00 PM	24-Mar-2015 11:01 AM	N
	PB82257	NA	JW-SB/SG20	SO	JW-SB20-35	G1564-22	LB75258-S0	1/1	18-Mar-2015 8:40 AM	23-Mar-2015 12:00 PM	24-Mar-2015 11:03 AM	N
	PB82257	NA	JW-SB/SG20	SO	JW-SB20-5	G1564-19	LB75258-S0	1/1	18-Mar-2015 8:20 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:52 AM	N
	PB82257	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1564-02	LB75258-S0	1/1	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:16 AM	LR
	PB82257	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1564-03	LB75258-S0	1/1	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:19 AM	MS
	PB82257	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1564-01	LB75258-S0	1/1	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:14 AM	N
	PB82257	NA	JW-SB/SG21	SO	JW-SB21-15	G1564-07	LB75258-S0	1/1	17-Mar-2015 11:15 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:27 AM	N
	PB82257	NA	JW-SB/SG21	SO	JW-SB21-2	G1564-04	LB75258-S0	1/1	17-Mar-2015 10:50 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:21 AM	N
	PB82257	NA	JW-SB/SG21	SO	JW-SB21-25	G1564-08	LB75258-S0	1/1	17-Mar-2015 11:20 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:29 AM	N
	PB82257	NA	JW-SB/SG21	SO	JW-SB21-35	G1564-09	LB75258-S0	1/1	17-Mar-2015 11:30 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:31 AM	N
	PB82257	NA	JW-SB/SG21	SO	JW-SB21-5	G1564-05	LB75258-S0	1/1	17-Mar-2015 11:00 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:23 AM	N
	PB82257	NA	JW-SB/SG21	SO	JW-SB21-6	G1564-06	LB75258-S0	1/1	17-Mar-2015 11:05 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:25 AM	FD
	PB82257	NA	JW-SB/SG24	SO	JW-SB24-0.5	G1564-10	LB75258-S0	1/1	17-Mar-2015 8:30 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:33 AM	N
	PB82257	NA	JW-SB/SG24	SO	JW-SB24-15	G1564-13	LB75258-S0	1/1	17-Mar-2015 9:00 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:40 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75258-CC	PB82257	NA	JW-SB/SG24	SO	JW-SB24-2	G1564-11	LB75258-S0	1/1	17-Mar-2015 8:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:36 AM	N
	PB82257	NA	JW-SB/SG24	SO	JW-SB24-25	G1564-14	LB75258-S0	1/1	17-Mar-2015 9:05 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:42 AM	N
	PB82257	NA	JW-SB/SG24	SO	JW-SB24-26	G1564-15	LB75258-S0	1/1	17-Mar-2015 9:10 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:44 AM	FD
	PB82257	NA	JW-SB/SG24	SO	JW-SB24-35	G1564-16	LB75258-S0	1/1	17-Mar-2015 9:20 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:46 AM	N
	PB82257	NA	JW-SB/SG24	SO	JW-SB24-5	G1564-12	LB75258-S0	1/1	17-Mar-2015 8:50 AM	23-Mar-2015 12:00 PM	24-Mar-2015 10:38 AM	N
	PB82257	NA	LABQC	SQ	LABQC	PB82257BL	LB75258-S0	1/1	24-Mar-2015 10:12 AM	24-Mar-2015 10:12 AM	24-Mar-2015 10:12 AM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW7471B / METHOD	Field Duplicate RPD	G1564-15 (N)	1 / 1.00	Mercury	53.4	RPD	J/None	< 50	< 100	D5		RPD	

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB20-0.5	N	Sodium	382	302 J	302 J	mg/kg	TR
E200.7/NONE	SO	JW-SB20-2	N	Sodium	406	347 J	347 J	mg/kg	TR
E200.7/NONE	SO	JW-SB20-35	N	Sodium	376	326 J	326 J	mg/kg	TR
E200.7/NONE	SO	JW-SB21-0.5	N	Sodium	400	354 J	354 J	mg/kg	TR
E200.7/NONE	SO	JW-SB21-2	N	Sodium	392	221 J	221 J	mg/kg	TR
E200.7/NONE	SO	JW-SB24-2	N	Sodium	365	288 J	288 J	mg/kg	TR
E200.7/NONE	SO	JW-SB24-5	N	Sodium	370	314 J	314 J	mg/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB20-0.5	N	Mercury	0.10	0.094 J	0.094 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB20-15	N	Mercury	0.12	0.059 J	0.059 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB20-2	N	Mercury	0.10	0.044 J	0.044 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB20-35	N	Mercury	0.10	0.049 J	0.049 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB20-5	N	Mercury	0.11	0.042 J	0.042 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-0.5	N	Mercury	0.10	0.085 J	0.085 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-15	N	Mercury	0.12	0.043 J	0.043 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-2	N	Mercury	0.11	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-25	N	Mercury	0.12	0.048 J	0.048 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-35	N	Mercury	0.10	0.065 J	0.065 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-5	N	Mercury	0.12	0.079 J	0.079 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-6	FD	Mercury	0.11	0.075 J	0.075 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB24-0.5	N	Mercury	0.10	0.061 J	0.061 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB24-2	N	Mercury	0.10	0.053 J	0.053 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB24-25	N	Mercury	0.10	0.048 J	0.048 J	mg/kg	D5/TR
SW7471B/NONE	SO	JW-SB24-26	FD	Mercury	0.11	0.083 J	0.083 J	mg/kg	D5/TR
SW7471B/NONE	SO	JW-SB24-35	N	Mercury	0.11	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB24-5	N	Mercury	0.089	0.039 J	0.039 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB20-0.5	N	Aluminum	15.3	10700	10700	mg/kg	
E200.7/NONE	SO	JW-SB20-0.5	N	Calcium	382	6790	6790	mg/kg	
E200.7/NONE	SO	JW-SB20-0.5	N	Iron	7.6	20300	20300	mg/kg	
E200.7/NONE	SO	JW-SB20-0.5	N	Potassium	382	4050	4050	mg/kg	
E200.7/NONE	SO	JW-SB20-0.5	N	Magnesium	382	5510	5510	mg/kg	
E200.7/NONE	SO	JW-SB20-0.5	N	Sodium	382	302 J	302 J	mg/kg	TR
E200.7/NONE	SO	JW-SB20-15	N	Aluminum	17.1	17100	17100	mg/kg	
E200.7/NONE	SO	JW-SB20-15	N	Calcium	428	13300	13300	mg/kg	
E200.7/NONE	SO	JW-SB20-15	N	Iron	8.6	26300	26300	mg/kg	
E200.7/NONE	SO	JW-SB20-15	N	Potassium	428	5040	5040	mg/kg	
E200.7/NONE	SO	JW-SB20-15	N	Magnesium	428	8410	8410	mg/kg	
E200.7/NONE	SO	JW-SB20-15	N	Sodium	428	1800	1800	mg/kg	
E200.7/NONE	SO	JW-SB20-2	N	Aluminum	16.2	11500	11500	mg/kg	
E200.7/NONE	SO	JW-SB20-2	N	Calcium	406	6330	6330	mg/kg	
E200.7/NONE	SO	JW-SB20-2	N	Iron	8.1	20400	20400	mg/kg	
E200.7/NONE	SO	JW-SB20-2	N	Potassium	406	4220	4220	mg/kg	
E200.7/NONE	SO	JW-SB20-2	N	Magnesium	406	5920	5920	mg/kg	
E200.7/NONE	SO	JW-SB20-2	N	Sodium	406	347 J	347 J	mg/kg	TR
E200.7/NONE	SO	JW-SB20-25	N	Aluminum	19.2	18700	18700	mg/kg	
E200.7/NONE	SO	JW-SB20-25	N	Calcium	481	21700	21700	mg/kg	
E200.7/NONE	SO	JW-SB20-25	N	Iron	9.6	30200	30200	mg/kg	
E200.7/NONE	SO	JW-SB20-25	N	Potassium	481	5760	5760	mg/kg	
E200.7/NONE	SO	JW-SB20-25	N	Magnesium	481	10600	10600	mg/kg	
E200.7/NONE	SO	JW-SB20-25	N	Sodium	481	1700	1700	mg/kg	
E200.7/NONE	SO	JW-SB20-35	N	Aluminum	15.0	7810	7810	mg/kg	
E200.7/NONE	SO	JW-SB20-35	N	Calcium	376	5990	5990	mg/kg	
E200.7/NONE	SO	JW-SB20-35	N	Iron	7.5	16400	16400	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB20-35	N	Potassium	376	2790	2790	mg/kg	
E200.7/NONE	SO	JW-SB20-35	N	Magnesium	376	4420	4420	mg/kg	
E200.7/NONE	SO	JW-SB20-35	N	Sodium	376	326 J	326 J	mg/kg	TR
E200.7/NONE	SO	JW-SB20-5	N	Aluminum	15.2	12100	12100	mg/kg	
E200.7/NONE	SO	JW-SB20-5	N	Calcium	379	7480	7480	mg/kg	
E200.7/NONE	SO	JW-SB20-5	N	Iron	7.6	21100	21100	mg/kg	
E200.7/NONE	SO	JW-SB20-5	N	Potassium	379	3960	3960	mg/kg	
E200.7/NONE	SO	JW-SB20-5	N	Magnesium	379	5970	5970	mg/kg	
E200.7/NONE	SO	JW-SB20-5	N	Sodium	379	421	421	mg/kg	
E200.7/NONE	SO	JW-SB21-0.5	N	Aluminum	16.0	10100	10100	mg/kg	
E200.7/NONE	SO	JW-SB21-0.5	N	Calcium	400	6670	6670	mg/kg	
E200.7/NONE	SO	JW-SB21-0.5	N	Iron	8.0	43600	43600	mg/kg	
E200.7/NONE	SO	JW-SB21-0.5	N	Potassium	400	3690	3690	mg/kg	
E200.7/NONE	SO	JW-SB21-0.5	N	Magnesium	400	4790	4790	mg/kg	
E200.7/NONE	SO	JW-SB21-0.5	N	Sodium	400	354 J	354 J	mg/kg	TR
E200.7/NONE	SO	JW-SB21-15	N	Aluminum	17.5	13000	13000	mg/kg	
E200.7/NONE	SO	JW-SB21-15	N	Calcium	438	7200	7200	mg/kg	
E200.7/NONE	SO	JW-SB21-15	N	Iron	8.8	21600	21600	mg/kg	
E200.7/NONE	SO	JW-SB21-15	N	Potassium	438	4440	4440	mg/kg	
E200.7/NONE	SO	JW-SB21-15	N	Magnesium	438	6770	6770	mg/kg	
E200.7/NONE	SO	JW-SB21-15	N	Sodium	438	472	472	mg/kg	
E200.7/NONE	SO	JW-SB21-2	N	Aluminum	15.7	8100	8100	mg/kg	
E200.7/NONE	SO	JW-SB21-2	N	Calcium	392	5510	5510	mg/kg	
E200.7/NONE	SO	JW-SB21-2	N	Iron	7.8	16700	16700	mg/kg	
E200.7/NONE	SO	JW-SB21-2	N	Potassium	392	3390	3390	mg/kg	
E200.7/NONE	SO	JW-SB21-2	N	Magnesium	392	4310	4310	mg/kg	
E200.7/NONE	SO	JW-SB21-2	N	Sodium	392	221 J	221 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB21-25	N	Aluminum	19.4	18900	18900	mg/kg	
E200.7/NONE	SO	JW-SB21-25	N	Calcium	485	34700	34700	mg/kg	
E200.7/NONE	SO	JW-SB21-25	N	Iron	9.7	31600	31600	mg/kg	
E200.7/NONE	SO	JW-SB21-25	N	Potassium	485	6260	6260	mg/kg	
E200.7/NONE	SO	JW-SB21-25	N	Magnesium	485	11300	11300	mg/kg	
E200.7/NONE	SO	JW-SB21-25	N	Sodium	485	1920	1920	mg/kg	
E200.7/NONE	SO	JW-SB21-35	N	Aluminum	16.0	7840	7840	mg/kg	
E200.7/NONE	SO	JW-SB21-35	N	Calcium	401	3890	3890	mg/kg	
E200.7/NONE	SO	JW-SB21-35	N	Iron	8.0	15100	15100	mg/kg	
E200.7/NONE	SO	JW-SB21-35	N	Potassium	401	2590	2590	mg/kg	
E200.7/NONE	SO	JW-SB21-35	N	Magnesium	401	4360	4360	mg/kg	
E200.7/NONE	SO	JW-SB21-35	N	Sodium	401	428	428	mg/kg	
E200.7/NONE	SO	JW-SB21-5	N	Aluminum	17.8	18800	18800	mg/kg	
E200.7/NONE	SO	JW-SB21-5	N	Calcium	445	19100	19100	mg/kg	
E200.7/NONE	SO	JW-SB21-5	N	Iron	8.9	29100	29100	mg/kg	
E200.7/NONE	SO	JW-SB21-5	N	Potassium	445	4730	4730	mg/kg	
E200.7/NONE	SO	JW-SB21-5	N	Magnesium	445	9110	9110	mg/kg	
E200.7/NONE	SO	JW-SB21-5	N	Sodium	445	668	668	mg/kg	
E200.7/NONE	SO	JW-SB21-6	FD	Aluminum	17.6	18100	18100	mg/kg	
E200.7/NONE	SO	JW-SB21-6	FD	Calcium	440	13200	13200	mg/kg	
E200.7/NONE	SO	JW-SB21-6	FD	Iron	8.8	28900	28900	mg/kg	
E200.7/NONE	SO	JW-SB21-6	FD	Potassium	440	4700	4700	mg/kg	
E200.7/NONE	SO	JW-SB21-6	FD	Magnesium	440	8960	8960	mg/kg	
E200.7/NONE	SO	JW-SB21-6	FD	Sodium	440	619	619	mg/kg	
E200.7/NONE	SO	JW-SB24-0.5	N	Aluminum	15.6	11200	11200	mg/kg	
E200.7/NONE	SO	JW-SB24-0.5	N	Calcium	391	7340	7340	mg/kg	
E200.7/NONE	SO	JW-SB24-0.5	N	Iron	7.8	31300	31300	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB24-0.5	N	Potassium	391	4640	4640	mg/kg	
E200.7/NONE	SO	JW-SB24-0.5	N	Magnesium	391	6010	6010	mg/kg	
E200.7/NONE	SO	JW-SB24-0.5	N	Sodium	391	441	441	mg/kg	
E200.7/NONE	SO	JW-SB24-15	N	Aluminum	18.4	24200	24200	mg/kg	
E200.7/NONE	SO	JW-SB24-15	N	Calcium	461	13900	13900	mg/kg	
E200.7/NONE	SO	JW-SB24-15	N	Iron	9.2	34800	34800	mg/kg	
E200.7/NONE	SO	JW-SB24-15	N	Potassium	461	5160	5160	mg/kg	
E200.7/NONE	SO	JW-SB24-15	N	Magnesium	461	10800	10800	mg/kg	
E200.7/NONE	SO	JW-SB24-15	N	Sodium	461	3110	3110	mg/kg	
E200.7/NONE	SO	JW-SB24-2	N	Aluminum	14.6	9030	9030	mg/kg	
E200.7/NONE	SO	JW-SB24-2	N	Calcium	365	5640	5640	mg/kg	
E200.7/NONE	SO	JW-SB24-2	N	Iron	7.3	17600	17600	mg/kg	
E200.7/NONE	SO	JW-SB24-2	N	Potassium	365	3870	3870	mg/kg	
E200.7/NONE	SO	JW-SB24-2	N	Magnesium	365	4820	4820	mg/kg	
E200.7/NONE	SO	JW-SB24-2	N	Sodium	365	288 J	288 J	mg/kg	TR
E200.7/NONE	SO	JW-SB24-25	N	Aluminum	16.6	18000	18000	mg/kg	
E200.7/NONE	SO	JW-SB24-25	N	Calcium	416	21900	21900	mg/kg	
E200.7/NONE	SO	JW-SB24-25	N	Iron	8.3	28800	28800	mg/kg	
E200.7/NONE	SO	JW-SB24-25	N	Potassium	416	5760	5760	mg/kg	
E200.7/NONE	SO	JW-SB24-25	N	Magnesium	416	10200	10200	mg/kg	
E200.7/NONE	SO	JW-SB24-25	N	Sodium	416	1610	1610	mg/kg	
E200.7/NONE	SO	JW-SB24-26	FD	Aluminum	16.5	19200	19200	mg/kg	
E200.7/NONE	SO	JW-SB24-26	FD	Calcium	413	18600	18600	mg/kg	
E200.7/NONE	SO	JW-SB24-26	FD	Iron	8.3	30400	30400	mg/kg	
E200.7/NONE	SO	JW-SB24-26	FD	Potassium	413	5870	5870	mg/kg	
E200.7/NONE	SO	JW-SB24-26	FD	Magnesium	413	10400	10400	mg/kg	
E200.7/NONE	SO	JW-SB24-26	FD	Sodium	413	1670	1670	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB24-35	N	Aluminum	15.8	8710	8710	mg/kg	
E200.7/NONE	SO	JW-SB24-35	N	Calcium	395	6200	6200	mg/kg	
E200.7/NONE	SO	JW-SB24-35	N	Iron	7.9	17100	17100	mg/kg	
E200.7/NONE	SO	JW-SB24-35	N	Potassium	395	2920	2920	mg/kg	
E200.7/NONE	SO	JW-SB24-35	N	Magnesium	395	5050	5050	mg/kg	
E200.7/NONE	SO	JW-SB24-35	N	Sodium	395	517	517	mg/kg	
E200.7/NONE	SO	JW-SB24-5	N	Aluminum	14.8	9670	9670	mg/kg	
E200.7/NONE	SO	JW-SB24-5	N	Calcium	370	5700	5700	mg/kg	
E200.7/NONE	SO	JW-SB24-5	N	Iron	7.4	18100	18100	mg/kg	
E200.7/NONE	SO	JW-SB24-5	N	Potassium	370	3950	3950	mg/kg	
E200.7/NONE	SO	JW-SB24-5	N	Magnesium	370	5030	5030	mg/kg	
E200.7/NONE	SO	JW-SB24-5	N	Sodium	370	314 J	314 J	mg/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB20-0.5	N	Mercury	0.10	0.094 J	0.094 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB20-15	N	Mercury	0.12	0.059 J	0.059 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB20-2	N	Mercury	0.10	0.044 J	0.044 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB20-25	N	Mercury	0.12	0.12 J	0.12	mg/kg	
SW7471B/NONE	SO	JW-SB20-35	N	Mercury	0.10	0.049 J	0.049 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB20-5	N	Mercury	0.11	0.042 J	0.042 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-0.5	N	Mercury	0.10	0.085 J	0.085 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-15	N	Mercury	0.12	0.043 J	0.043 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-2	N	Mercury	0.11	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-25	N	Mercury	0.12	0.048 J	0.048 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-35	N	Mercury	0.10	0.065 J	0.065 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-5	N	Mercury	0.12	0.079 J	0.079 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB21-6	FD	Mercury	0.11	0.075 J	0.075 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB24-0.5	N	Mercury	0.10	0.061 J	0.061 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB24-15	N	Mercury	0.12	0.15	0.15	mg/kg	
SW7471B/NONE	SO	JW-SB24-2	N	Mercury	0.10	0.053 J	0.053 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB24-25	N	Mercury	0.10	0.048 J	0.048 J	mg/kg	D5/TR
SW7471B/NONE	SO	JW-SB24-26	FD	Mercury	0.11	0.083 J	0.083 J	mg/kg	D5/TR
SW7471B/NONE	SO	JW-SB24-35	N	Mercury	0.11	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB24-5	N	Mercury	0.089	0.039 J	0.039 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SY1

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SY2

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9SY2, Certified - 4/10/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9SY2

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.8/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for MY9SY2

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9SY2. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9SY2

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 4 results (1.25%) out of the 320 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

No COC receipt issues or calibration anomalies were noted.

Data qualifiers were added for minor field duplicate imprecision (D5) and poor matrix spike recoveries (M).

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 12:25:11 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
P6-CCV96	PB82248	NA	JW-SB/SG20	SO	JW-SB20-0.5	G1566-17	P6-S0	1/1	18-Mar-2015 8:10 AM	23-Mar-2015 12:00 PM	24-Mar-2015 8:16 PM	N
	PB82248	NA	JW-SB/SG20	SO	JW-SB20-0.5	G1566-17	P6-S0	1/10	18-Mar-2015 8:10 AM	23-Mar-2015 12:00 PM	24-Mar-2015 8:24 PM	N
	PB82248	NA	JW-SB/SG20	SO	JW-SB20-15	G1566-20	P6-S0	1/1	18-Mar-2015 8:30 AM	23-Mar-2015 12:00 PM	24-Mar-2015 9:18 PM	N
	PB82248	NA	JW-SB/SG20	SO	JW-SB20-15	G1566-20	P6-S0	1/10	18-Mar-2015 8:30 AM	23-Mar-2015 12:00 PM	24-Mar-2015 9:26 PM	N
	PB82248	NA	JW-SB/SG20	SO	JW-SB20-2	G1566-18	P6-S0	1/1	18-Mar-2015 8:15 AM	23-Mar-2015 12:00 PM	24-Mar-2015 8:31 PM	N
	PB82248	NA	JW-SB/SG20	SO	JW-SB20-2	G1566-18	P6-S0	1/10	18-Mar-2015 8:15 AM	23-Mar-2015 12:00 PM	24-Mar-2015 8:39 PM	N
	PB82248	NA	JW-SB/SG20	SO	JW-SB20-25	G1566-21	P6-S0	1/1	18-Mar-2015 8:35 AM	23-Mar-2015 12:00 PM	24-Mar-2015 9:34 PM	N
	PB82248	NA	JW-SB/SG20	SO	JW-SB20-25	G1566-21	P6-S0	1/10	18-Mar-2015 8:35 AM	23-Mar-2015 12:00 PM	24-Mar-2015 9:42 PM	N
	PB82248	NA	JW-SB/SG20	SO	JW-SB20-35	G1566-22	P6-S0	1/1	18-Mar-2015 8:40 AM	23-Mar-2015 12:00 PM	24-Mar-2015 9:49 PM	N
	PB82248	NA	JW-SB/SG20	SO	JW-SB20-35	G1566-22	P6-S0	1/10	18-Mar-2015 8:40 AM	23-Mar-2015 12:00 PM	24-Mar-2015 9:57 PM	N
	PB82248	NA	JW-SB/SG20	SO	JW-SB20-5	G1566-19	P6-S0	1/1	18-Mar-2015 8:20 AM	23-Mar-2015 12:00 PM	24-Mar-2015 9:03 PM	N
	PB82248	NA	JW-SB/SG20	SO	JW-SB20-5	G1566-19	P6-S0	1/10	18-Mar-2015 8:20 AM	23-Mar-2015 12:00 PM	24-Mar-2015 9:10 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1566-02	P6-S0	1/1	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 2:47 PM	LR
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1566-02	P6-S0	1/10	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 2:55 PM	LR
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1566-03	P6-S0	1/1	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 3:03 PM	MS
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1566-03	P6-S0	1/10	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 3:10 PM	MS
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1566-01	P6-S0	1/1	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 2:32 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-0.5	G1566-01	P6-S0	1/10	17-Mar-2015 10:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 2:39 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-15	G1566-07	P6-S0	1/1	17-Mar-2015 11:15 AM	23-Mar-2015 12:00 PM	24-Mar-2015 4:36 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-15	G1566-07	P6-S0	1/10	17-Mar-2015 11:15 AM	23-Mar-2015 12:00 PM	24-Mar-2015 4:44 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-2	G1566-04	P6-S0	1/1	17-Mar-2015 10:50 AM	23-Mar-2015 12:00 PM	24-Mar-2015 3:49 PM	N

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
P6-CCV96	PB82248	NA	JW-SB/SG21	SO	JW-SB21-2	G1566-04	P6-S0	1/10	17-Mar-2015 10:50 AM	23-Mar-2015 12:00 PM	24-Mar-2015 3:57 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-25	G1566-08	P6-S0	1/1	17-Mar-2015 11:20 AM	23-Mar-2015 12:00 PM	24-Mar-2015 5:10 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-25	G1566-08	P6-S0	1/10	17-Mar-2015 11:20 AM	23-Mar-2015 12:00 PM	24-Mar-2015 5:18 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-35	G1566-09	P6-S0	1/1	17-Mar-2015 11:30 AM	23-Mar-2015 12:00 PM	24-Mar-2015 5:48 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-35	G1566-09	P6-S0	1/10	17-Mar-2015 11:30 AM	23-Mar-2015 12:00 PM	24-Mar-2015 5:56 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-5	G1566-05	P6-S0	1/1	17-Mar-2015 11:00 AM	23-Mar-2015 12:00 PM	24-Mar-2015 4:05 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-5	G1566-05	P6-S0	1/10	17-Mar-2015 11:00 AM	23-Mar-2015 12:00 PM	24-Mar-2015 4:13 PM	N
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-6	G1566-06	P6-S0	1/1	17-Mar-2015 11:05 AM	23-Mar-2015 12:00 PM	24-Mar-2015 4:20 PM	FD
	PB82248	NA	JW-SB/SG21	SO	JW-SB21-6	G1566-06	P6-S0	1/10	17-Mar-2015 11:05 AM	23-Mar-2015 12:00 PM	24-Mar-2015 4:28 PM	FD
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-0.5	G1566-10	P6-S0	1/1	17-Mar-2015 8:30 AM	23-Mar-2015 12:00 PM	24-Mar-2015 6:04 PM	N
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-0.5	G1566-10	P6-S0	1/10	17-Mar-2015 8:30 AM	23-Mar-2015 12:00 PM	24-Mar-2015 6:11 PM	N
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-15	G1566-13	P6-S0	1/1	17-Mar-2015 9:00 AM	23-Mar-2015 12:00 PM	24-Mar-2015 6:50 PM	N
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-15	G1566-13	P6-S0	1/10	17-Mar-2015 9:00 AM	23-Mar-2015 12:00 PM	24-Mar-2015 6:58 PM	N
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-2	G1566-11	P6-S0	1/1	17-Mar-2015 8:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 6:19 PM	N
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-2	G1566-11	P6-S0	1/10	17-Mar-2015 8:45 AM	23-Mar-2015 12:00 PM	24-Mar-2015 6:27 PM	N
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-25	G1566-14	P6-S0	1/1	17-Mar-2015 9:05 AM	23-Mar-2015 12:00 PM	24-Mar-2015 7:29 PM	N
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-25	G1566-14	P6-S0	1/10	17-Mar-2015 9:05 AM	23-Mar-2015 12:00 PM	24-Mar-2015 7:37 PM	N
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-26	G1566-15	P6-S0	1/1	17-Mar-2015 9:10 AM	23-Mar-2015 12:00 PM	24-Mar-2015 7:45 PM	FD
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-26	G1566-15	P6-S0	1/10	17-Mar-2015 9:10 AM	23-Mar-2015 12:00 PM	24-Mar-2015 7:52 PM	FD
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-35	G1566-16	P6-S0	1/1	17-Mar-2015 9:20 AM	23-Mar-2015 12:00 PM	24-Mar-2015 8:00 PM	N
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-35	G1566-16	P6-S0	1/10	17-Mar-2015 9:20 AM	23-Mar-2015 12:00 PM	24-Mar-2015 8:08 PM	N
	PB82248	NA	JW-SB/SG24	SO	JW-SB24-5	G1566-12	P6-S0	1/1	17-Mar-2015 8:50 AM	23-Mar-2015 12:00 PM	24-Mar-2015 6:35 PM	N

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
P6-CCV96	PB82248	NA	JW-SB/SG24	SO	JW-SB24-5	G1566-12	P6-S0	1/10	17-Mar-2015 8:50 AM	23-Mar-2015 12:00 PM	24-Mar-2015 6:42 PM	N
	PB82248	NA	LABQC	SQ	LABQC	PB82248BS	P6-S0	1/1	23-Mar-2015 12:00 PM	23-Mar-2015 12:00 PM	24-Mar-2015 2:24 PM	BS
	PB82248	NA	LABQC	SQ	LABQC	PB82248BL	P6-S0	1/1	23-Mar-2015 12:00 PM	23-Mar-2015 12:00 PM	24-Mar-2015 2:08 PM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9SY2

Field Batch Report

--No Records Found--

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.8 / METHOD	Field Duplicate RPD	G1566-15 (N)	1 / 1.00	Silver	60.7	RPD	J/None	< 50	< 100	D5		RPD	
E200.8 / METHOD	MS Recovery	JW-SB21-0.5 (MS)	1 / 1.00	Antimony	47.2	Percent	J/R	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB21-0.5 (MS)	1 / 10.00	Chromium	62.4	Percent	J/UJ	75 - 125	50 - 135	M	Spike amount Insignificant	4.00	
E200.8 / METHOD	MS Recovery	JW-SB21-0.5 (MS)	1 / 1.00	Copper	72.9	Percent	J/UJ	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB21-0.5 (MS)	1 / 10.00	Lead	-1290	Percent	J/R	75 - 125	50 - 135	M	Spike amount Insignificant	4.00	
E200.8 / METHOD	MS Recovery	JW-SB21-0.5 (MS)	1 / 10.00	Manganese	214	Percent	J/None	75 - 125	50 - 135	M	Spike amount Insignificant	4.00	
E200.8 / METHOD	MS Recovery	JW-SB21-0.5 (MS)	1 / 10.00	Zinc	24.8	Percent	J/R	75 - 125	50 - 135	M	Spike amount Insignificant	4.00	

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB20-0.5	N	Beryllium	0.40	0.37 JE	0.37 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-0.5	N	Cadmium	0.40	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-0.5	N	Silver	0.40	0.041 J	0.041 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-0.5	N	Thallium	0.40	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-15	N	Cadmium	0.43	0.27 J	0.27 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-15	N	Silver	0.43	0.043 J	0.043 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-15	N	Thallium	0.43	0.24 J	0.24 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-2	N	Beryllium	0.41	0.33 JE	0.33 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-2	N	Cadmium	0.41	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-2	N	Silver	0.41	0.022 J	0.022 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-2	N	Thallium	0.41	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-25	N	Cadmium	0.47	0.37 J	0.37 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-25	N	Silver	0.47	0.052 J	0.052 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-25	N	Thallium	0.47	0.30 J	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-35	N	Beryllium	0.38	0.21 JE	0.21 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-35	N	Cadmium	0.38	0.077 J	0.077 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-35	N	Thallium	0.38	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-5	N	Cadmium	0.38	0.14 J	0.14 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-5	N	Silver	0.38	0.023 J	0.023 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-5	N	Thallium	0.38	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-0.5	N	Antimony	0.81	0.81 JN	0.81 UJ	mg/kg	M
E200.8/NONE	SO	JW-SB21-0.5	N	Beryllium	0.40	0.29 JE	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-0.5	N	Copper	0.81	82.9 N	82.9 J	mg/kg	M
E200.8/NONE	SO	JW-SB21-0.5	N	Silver	0.40	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-0.5	N	Thallium	0.40	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-15	N	Beryllium	0.43	0.42 JE	0.42 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-15	N	Cadmium	0.43	0.15 J	0.15 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SY2

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB21-15	N	Silver	0.43	0.028 J	0.028 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-15	N	Thallium	0.43	0.21 J	0.21 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-2	N	Beryllium	0.38	0.20 JE	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-2	N	Cadmium	0.38	0.11 J	0.11 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-2	N	Silver	0.38	0.012 J	0.012 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-2	N	Thallium	0.38	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-25	N	Silver	0.45	0.044 J	0.044 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-25	N	Thallium	0.45	0.30 J	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-35	N	Beryllium	0.36	0.23 JE	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-35	N	Cadmium	0.36	0.074 J	0.074 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-35	N	Silver	0.36	0.023 J	0.023 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-35	N	Thallium	0.36	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-5	N	Cadmium	0.42	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-5	N	Silver	0.42	0.042 J	0.042 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-5	N	Thallium	0.42	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-6	FD	Cadmium	0.43	0.27 J	0.27 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-6	FD	Silver	0.43	0.040 J	0.040 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-6	FD	Thallium	0.43	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-0.5	N	Beryllium	0.37	0.30 JE	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-0.5	N	Silver	0.37	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-0.5	N	Thallium	0.37	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-15	N	Cadmium	0.46	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-15	N	Silver	0.46	0.049 J	0.049 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-15	N	Thallium	0.46	0.31 J	0.31 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-2	N	Beryllium	0.37	0.28 JE	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-2	N	Silver	0.37	0.049 J	0.049 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-2	N	Thallium	0.37	0.16 J	0.16 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SY2

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB24-25	N	Cadmium	0.45	0.24 J	0.24 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-25	N	Silver	0.45	0.058 J	0.058 J	mg/kg	D5/TR
E200.8/NONE	SO	JW-SB24-25	N	Thallium	0.45	0.30 J	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-26	FD	Cadmium	0.44	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-26	FD	Silver	0.44	0.031 J	0.031 J	mg/kg	D5/TR
E200.8/NONE	SO	JW-SB24-26	FD	Thallium	0.44	0.32 J	0.32 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-35	N	Beryllium	0.39	0.28 JE	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-35	N	Cadmium	0.39	0.052 J	0.052 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-35	N	Silver	0.39	0.0081 J	0.0081 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-35	N	Thallium	0.39	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-5	N	Beryllium	0.37	0.27 JE	0.27 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-5	N	Cadmium	0.37	0.21 J	0.21 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-5	N	Silver	0.37	0.034 J	0.034 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-5	N	Thallium	0.37	0.16 J	0.16 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB20-0.5	N	Silver	0.40	0.041 J	0.041 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-0.5	N	Arsenic	0.40	1.9	1.9	mg/kg	
E200.8/NONE	SO	JW-SB20-0.5	N	Barium	4.0	119	119	mg/kg	
E200.8/NONE	SO	JW-SB20-0.5	N	Beryllium	0.40	0.37 JE	0.37 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-0.5	N	Cadmium	0.40	0.25 J	0.25 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-0.5	N	Cobalt	0.40	10.6	10.6	mg/kg	
E200.8/NONE	SO	JW-SB20-0.5	N	Chromium	0.80	41.7	41.7	mg/kg	
E200.8/NONE	SO	JW-SB20-0.5	N	Copper	0.80	27.5 N	27.5	mg/kg	
E200.8/NONE	SO	JW-SB20-0.5	N	Manganese	4.0	364 D	364	mg/kg	
E200.8/NONE	SO	JW-SB20-0.5	N	Nickel	0.40	22.5	22.5	mg/kg	
E200.8/NONE	SO	JW-SB20-0.5	N	Lead	0.40	24.6	24.6	mg/kg	
E200.8/NONE	SO	JW-SB20-0.5	N	Thallium	0.40	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-0.5	N	Vanadium	2.0	32.8	32.8	mg/kg	
E200.8/NONE	SO	JW-SB20-0.5	N	Zinc	0.80	81.3	81.3	mg/kg	
E200.8/NONE	SO	JW-SB20-15	N	Silver	0.43	0.043 J	0.043 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-15	N	Arsenic	0.43	1.8	1.8	mg/kg	
E200.8/NONE	SO	JW-SB20-15	N	Barium	4.3	182	182	mg/kg	
E200.8/NONE	SO	JW-SB20-15	N	Beryllium	0.43	0.64 E	0.64	mg/kg	
E200.8/NONE	SO	JW-SB20-15	N	Cadmium	0.43	0.27 J	0.27 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-15	N	Cobalt	0.43	13.9	13.9	mg/kg	
E200.8/NONE	SO	JW-SB20-15	N	Chromium	0.87	22.1	22.1	mg/kg	
E200.8/NONE	SO	JW-SB20-15	N	Copper	0.87	29.2 N	29.2	mg/kg	
E200.8/NONE	SO	JW-SB20-15	N	Manganese	4.3	475 D	475	mg/kg	
E200.8/NONE	SO	JW-SB20-15	N	Nickel	0.43	17.3	17.3	mg/kg	
E200.8/NONE	SO	JW-SB20-15	N	Lead	0.43	6.2	6.2	mg/kg	
E200.8/NONE	SO	JW-SB20-15	N	Thallium	0.43	0.24 J	0.24 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-15	N	Vanadium	2.2	46.9	46.9	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB20-15	N	Zinc	0.87	79.5	79.5	mg/kg	
E200.8/NONE	SO	JW-SB20-2	N	Silver	0.41	0.022 J	0.022 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-2	N	Arsenic	0.41	1.6	1.6	mg/kg	
E200.8/NONE	SO	JW-SB20-2	N	Barium	4.1	118	118	mg/kg	
E200.8/NONE	SO	JW-SB20-2	N	Beryllium	0.41	0.33 JE	0.33 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-2	N	Cadmium	0.41	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-2	N	Cobalt	0.41	10.0	10.0	mg/kg	
E200.8/NONE	SO	JW-SB20-2	N	Chromium	0.82	14.0	14.0	mg/kg	
E200.8/NONE	SO	JW-SB20-2	N	Copper	0.82	15.3 N	15.3	mg/kg	
E200.8/NONE	SO	JW-SB20-2	N	Manganese	4.1	327 D	327	mg/kg	
E200.8/NONE	SO	JW-SB20-2	N	Nickel	0.41	11.2	11.2	mg/kg	
E200.8/NONE	SO	JW-SB20-2	N	Lead	0.41	5.3	5.3	mg/kg	
E200.8/NONE	SO	JW-SB20-2	N	Thallium	0.41	0.17 J	0.17 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-2	N	Vanadium	2.0	32.0	32.0	mg/kg	
E200.8/NONE	SO	JW-SB20-2	N	Zinc	0.82	55.3	55.3	mg/kg	
E200.8/NONE	SO	JW-SB20-25	N	Silver	0.47	0.052 J	0.052 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-25	N	Arsenic	0.47	3.0	3.0	mg/kg	
E200.8/NONE	SO	JW-SB20-25	N	Barium	4.7	235	235	mg/kg	
E200.8/NONE	SO	JW-SB20-25	N	Beryllium	0.47	0.66 E	0.66	mg/kg	
E200.8/NONE	SO	JW-SB20-25	N	Cadmium	0.47	0.37 J	0.37 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-25	N	Cobalt	0.47	17.3	17.3	mg/kg	
E200.8/NONE	SO	JW-SB20-25	N	Chromium	0.93	28.4	28.4	mg/kg	
E200.8/NONE	SO	JW-SB20-25	N	Copper	0.93	32.9 N	32.9	mg/kg	
E200.8/NONE	SO	JW-SB20-25	N	Manganese	4.7	747 D	747	mg/kg	
E200.8/NONE	SO	JW-SB20-25	N	Nickel	0.47	22.5	22.5	mg/kg	
E200.8/NONE	SO	JW-SB20-25	N	Lead	0.47	5.7	5.7	mg/kg	
E200.8/NONE	SO	JW-SB20-25	N	Thallium	0.47	0.30 J	0.30 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB20-25	N	Vanadium	2.3	64.0	64.0	mg/kg	
E200.8/NONE	SO	JW-SB20-25	N	Zinc	0.93	92.8	92.8	mg/kg	
E200.8/NONE	SO	JW-SB20-35	N	Arsenic	0.38	8.1	8.1	mg/kg	
E200.8/NONE	SO	JW-SB20-35	N	Barium	3.8	83.9	83.9	mg/kg	
E200.8/NONE	SO	JW-SB20-35	N	Beryllium	0.38	0.21 JE	0.21 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-35	N	Cadmium	0.38	0.077 J	0.077 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-35	N	Cobalt	0.38	7.5	7.5	mg/kg	
E200.8/NONE	SO	JW-SB20-35	N	Chromium	0.77	8.3	8.3	mg/kg	
E200.8/NONE	SO	JW-SB20-35	N	Copper	0.77	9.2 N	9.2	mg/kg	
E200.8/NONE	SO	JW-SB20-35	N	Manganese	3.8	235 D	235	mg/kg	
E200.8/NONE	SO	JW-SB20-35	N	Nickel	0.38	6.9	6.9	mg/kg	
E200.8/NONE	SO	JW-SB20-35	N	Lead	0.38	2.1	2.1	mg/kg	
E200.8/NONE	SO	JW-SB20-35	N	Thallium	0.38	0.12 J	0.12 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-35	N	Vanadium	1.9	21.4	21.4	mg/kg	
E200.8/NONE	SO	JW-SB20-35	N	Zinc	0.77	36.3	36.3	mg/kg	
E200.8/NONE	SO	JW-SB20-5	N	Silver	0.38	0.023 J	0.023 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-5	N	Arsenic	0.38	1.5	1.5	mg/kg	
E200.8/NONE	SO	JW-SB20-5	N	Barium	3.8	125	125	mg/kg	
E200.8/NONE	SO	JW-SB20-5	N	Beryllium	0.38	0.39 E	0.39	mg/kg	
E200.8/NONE	SO	JW-SB20-5	N	Cadmium	0.38	0.14 J	0.14 J	mg/kg	TR
E200.8/NONE	SO	JW-SB20-5	N	Cobalt	0.38	10.5	10.5	mg/kg	
E200.8/NONE	SO	JW-SB20-5	N	Chromium	0.77	14.9	14.9	mg/kg	
E200.8/NONE	SO	JW-SB20-5	N	Copper	0.77	17.5 N	17.5	mg/kg	
E200.8/NONE	SO	JW-SB20-5	N	Manganese	3.8	354 D	354	mg/kg	
E200.8/NONE	SO	JW-SB20-5	N	Nickel	0.38	11.8	11.8	mg/kg	
E200.8/NONE	SO	JW-SB20-5	N	Lead	0.38	4.9	4.9	mg/kg	
E200.8/NONE	SO	JW-SB20-5	N	Thallium	0.38	0.18 J	0.18 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB20-5	N	Vanadium	1.9	34.6	34.6	mg/kg	
E200.8/NONE	SO	JW-SB20-5	N	Zinc	0.77	59.8	59.8	mg/kg	
E200.8/NONE	SO	JW-SB21-0.5	N	Silver	0.40	0.20 J	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-0.5	N	Arsenic	0.40	3.2	3.2	mg/kg	
E200.8/NONE	SO	JW-SB21-0.5	N	Barium	4.0	139	139	mg/kg	
E200.8/NONE	SO	JW-SB21-0.5	N	Beryllium	0.40	0.29 JE	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-0.5	N	Cadmium	0.40	1.6	1.6	mg/kg	
E200.8/NONE	SO	JW-SB21-0.5	N	Cobalt	0.40	11.7	11.7	mg/kg	
E200.8/NONE	SO	JW-SB21-0.5	N	Chromium	8.1	94.9 D	94.9	mg/kg	
E200.8/NONE	SO	JW-SB21-0.5	N	Copper	0.81	82.9 N	82.9 J	mg/kg	M
E200.8/NONE	SO	JW-SB21-0.5	N	Manganese	4.0	586 D	586	mg/kg	
E200.8/NONE	SO	JW-SB21-0.5	N	Nickel	0.40	25.4	25.4	mg/kg	
E200.8/NONE	SO	JW-SB21-0.5	N	Lead	4.0	305 D	305	mg/kg	
E200.8/NONE	SO	JW-SB21-0.5	N	Thallium	0.40	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-0.5	N	Vanadium	2.0	29.8	29.8	mg/kg	
E200.8/NONE	SO	JW-SB21-0.5	N	Zinc	8.1	480 D	480	mg/kg	
E200.8/NONE	SO	JW-SB21-15	N	Silver	0.43	0.028 J	0.028 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-15	N	Arsenic	0.43	1.3	1.3	mg/kg	
E200.8/NONE	SO	JW-SB21-15	N	Barium	4.3	142	142	mg/kg	
E200.8/NONE	SO	JW-SB21-15	N	Beryllium	0.43	0.42 JE	0.42 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-15	N	Cadmium	0.43	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-15	N	Cobalt	0.43	11.6	11.6	mg/kg	
E200.8/NONE	SO	JW-SB21-15	N	Chromium	0.87	18.2	18.2	mg/kg	
E200.8/NONE	SO	JW-SB21-15	N	Copper	0.87	18.8 N	18.8	mg/kg	
E200.8/NONE	SO	JW-SB21-15	N	Manganese	4.3	339 D	339	mg/kg	
E200.8/NONE	SO	JW-SB21-15	N	Nickel	0.43	13.2	13.2	mg/kg	
E200.8/NONE	SO	JW-SB21-15	N	Lead	0.43	4.6	4.6	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB21-15	N	Thallium	0.43	0.21 J	0.21 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-15	N	Vanadium	2.2	34.9	34.9	mg/kg	
E200.8/NONE	SO	JW-SB21-15	N	Zinc	0.87	59.8	59.8	mg/kg	
E200.8/NONE	SO	JW-SB21-2	N	Silver	0.38	0.012 J	0.012 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-2	N	Arsenic	0.38	0.90	0.90	mg/kg	
E200.8/NONE	SO	JW-SB21-2	N	Barium	3.8	84.5	84.5	mg/kg	
E200.8/NONE	SO	JW-SB21-2	N	Beryllium	0.38	0.20 JE	0.20 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-2	N	Cadmium	0.38	0.11 J	0.11 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-2	N	Cobalt	0.38	6.8	6.8	mg/kg	
E200.8/NONE	SO	JW-SB21-2	N	Chromium	0.75	14.4	14.4	mg/kg	
E200.8/NONE	SO	JW-SB21-2	N	Copper	0.75	11.8 N	11.8	mg/kg	
E200.8/NONE	SO	JW-SB21-2	N	Manganese	3.8	227 D	227	mg/kg	
E200.8/NONE	SO	JW-SB21-2	N	Nickel	0.38	8.3	8.3	mg/kg	
E200.8/NONE	SO	JW-SB21-2	N	Lead	0.38	5.6	5.6	mg/kg	
E200.8/NONE	SO	JW-SB21-2	N	Thallium	0.38	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-2	N	Vanadium	1.9	22.1	22.1	mg/kg	
E200.8/NONE	SO	JW-SB21-2	N	Zinc	0.75	40.8	40.8	mg/kg	
E200.8/NONE	SO	JW-SB21-25	N	Silver	0.45	0.044 J	0.044 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-25	N	Arsenic	0.45	2.5	2.5	mg/kg	
E200.8/NONE	SO	JW-SB21-25	N	Barium	4.5	230	230	mg/kg	
E200.8/NONE	SO	JW-SB21-25	N	Beryllium	0.45	0.55 E	0.55	mg/kg	
E200.8/NONE	SO	JW-SB21-25	N	Cadmium	0.45	0.49	0.49	mg/kg	
E200.8/NONE	SO	JW-SB21-25	N	Cobalt	0.45	18.0	18.0	mg/kg	
E200.8/NONE	SO	JW-SB21-25	N	Chromium	0.90	36.0	36.0	mg/kg	
E200.8/NONE	SO	JW-SB21-25	N	Copper	0.90	30.9 N	30.9	mg/kg	
E200.8/NONE	SO	JW-SB21-25	N	Manganese	4.5	702 D	702	mg/kg	
E200.8/NONE	SO	JW-SB21-25	N	Nickel	0.45	26.7	26.7	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SY2

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB21-25	N	Lead	0.45	5.3	5.3	mg/kg	
E200.8/NONE	SO	JW-SB21-25	N	Thallium	0.45	0.30 J	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-25	N	Vanadium	2.3	55.7	55.7	mg/kg	
E200.8/NONE	SO	JW-SB21-25	N	Zinc	0.90	88.4	88.4	mg/kg	
E200.8/NONE	SO	JW-SB21-35	N	Silver	0.36	0.023 J	0.023 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-35	N	Arsenic	0.36	6.5	6.5	mg/kg	
E200.8/NONE	SO	JW-SB21-35	N	Barium	3.6	77.6	77.6	mg/kg	
E200.8/NONE	SO	JW-SB21-35	N	Beryllium	0.36	0.23 JE	0.23 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-35	N	Cadmium	0.36	0.074 J	0.074 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-35	N	Cobalt	0.36	8.7	8.7	mg/kg	
E200.8/NONE	SO	JW-SB21-35	N	Chromium	0.73	8.6	8.6	mg/kg	
E200.8/NONE	SO	JW-SB21-35	N	Copper	0.73	10.1 N	10.1	mg/kg	
E200.8/NONE	SO	JW-SB21-35	N	Manganese	3.6	222 D	222	mg/kg	
E200.8/NONE	SO	JW-SB21-35	N	Nickel	0.36	6.9	6.9	mg/kg	
E200.8/NONE	SO	JW-SB21-35	N	Lead	0.36	2.1	2.1	mg/kg	
E200.8/NONE	SO	JW-SB21-35	N	Thallium	0.36	0.13 J	0.13 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-35	N	Vanadium	1.8	27.0	27.0	mg/kg	
E200.8/NONE	SO	JW-SB21-35	N	Zinc	0.73	37.2	37.2	mg/kg	
E200.8/NONE	SO	JW-SB21-5	N	Silver	0.42	0.042 J	0.042 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-5	N	Arsenic	0.42	2.3	2.3	mg/kg	
E200.8/NONE	SO	JW-SB21-5	N	Barium	4.2	177	177	mg/kg	
E200.8/NONE	SO	JW-SB21-5	N	Beryllium	0.42	0.56 E	0.56	mg/kg	
E200.8/NONE	SO	JW-SB21-5	N	Cadmium	0.42	0.28 J	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-5	N	Cobalt	0.42	14.2	14.2	mg/kg	
E200.8/NONE	SO	JW-SB21-5	N	Chromium	0.85	22.5	22.5	mg/kg	
E200.8/NONE	SO	JW-SB21-5	N	Copper	0.85	25.8 N	25.8	mg/kg	
E200.8/NONE	SO	JW-SB21-5	N	Manganese	4.2	461 D	461	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SY2

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB21-5	N	Nickel	0.42	17.3	17.3	mg/kg	
E200.8/NONE	SO	JW-SB21-5	N	Lead	0.42	6.0	6.0	mg/kg	
E200.8/NONE	SO	JW-SB21-5	N	Thallium	0.42	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-5	N	Vanadium	2.1	46.7	46.7	mg/kg	
E200.8/NONE	SO	JW-SB21-5	N	Zinc	0.85	76.8	76.8	mg/kg	
E200.8/NONE	SO	JW-SB21-6	FD	Silver	0.43	0.040 J	0.040 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-6	FD	Arsenic	0.43	2.3	2.3	mg/kg	
E200.8/NONE	SO	JW-SB21-6	FD	Barium	4.3	175	175	mg/kg	
E200.8/NONE	SO	JW-SB21-6	FD	Beryllium	0.43	0.54 E	0.54	mg/kg	
E200.8/NONE	SO	JW-SB21-6	FD	Cadmium	0.43	0.27 J	0.27 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-6	FD	Cobalt	0.43	13.9	13.9	mg/kg	
E200.8/NONE	SO	JW-SB21-6	FD	Chromium	0.87	22.7	22.7	mg/kg	
E200.8/NONE	SO	JW-SB21-6	FD	Copper	0.87	26.2 N	26.2	mg/kg	
E200.8/NONE	SO	JW-SB21-6	FD	Manganese	4.3	483 D	483	mg/kg	
E200.8/NONE	SO	JW-SB21-6	FD	Nickel	0.43	17.3	17.3	mg/kg	
E200.8/NONE	SO	JW-SB21-6	FD	Lead	0.43	6.0	6.0	mg/kg	
E200.8/NONE	SO	JW-SB21-6	FD	Thallium	0.43	0.26 J	0.26 J	mg/kg	TR
E200.8/NONE	SO	JW-SB21-6	FD	Vanadium	2.2	46.8	46.8	mg/kg	
E200.8/NONE	SO	JW-SB21-6	FD	Zinc	0.87	76.4	76.4	mg/kg	
E200.8/NONE	SO	JW-SB24-0.5	N	Silver	0.37	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-0.5	N	Arsenic	0.37	2.8	2.8	mg/kg	
E200.8/NONE	SO	JW-SB24-0.5	N	Barium	3.7	156	156	mg/kg	
E200.8/NONE	SO	JW-SB24-0.5	N	Beryllium	0.37	0.30 JE	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-0.5	N	Cadmium	0.37	1.1	1.1	mg/kg	
E200.8/NONE	SO	JW-SB24-0.5	N	Cobalt	0.37	13.8	13.8	mg/kg	
E200.8/NONE	SO	JW-SB24-0.5	N	Chromium	7.5	186 D	186	mg/kg	
E200.8/NONE	SO	JW-SB24-0.5	N	Copper	0.75	44.2 N	44.2	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB24-0.5	N	Manganese	3.7	413 D	413	mg/kg	
E200.8/NONE	SO	JW-SB24-0.5	N	Nickel	0.37	19.5	19.5	mg/kg	
E200.8/NONE	SO	JW-SB24-0.5	N	Lead	3.7	540 D	540	mg/kg	
E200.8/NONE	SO	JW-SB24-0.5	N	Thallium	0.37	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-0.5	N	Vanadium	1.9	34.5	34.5	mg/kg	
E200.8/NONE	SO	JW-SB24-0.5	N	Zinc	7.5	578 D	578	mg/kg	
E200.8/NONE	SO	JW-SB24-15	N	Silver	0.46	0.049 J	0.049 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-15	N	Arsenic	0.46	3.4	3.4	mg/kg	
E200.8/NONE	SO	JW-SB24-15	N	Barium	4.6	198	198	mg/kg	
E200.8/NONE	SO	JW-SB24-15	N	Beryllium	0.46	0.88 E	0.88	mg/kg	
E200.8/NONE	SO	JW-SB24-15	N	Cadmium	0.46	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-15	N	Cobalt	0.46	16.8	16.8	mg/kg	
E200.8/NONE	SO	JW-SB24-15	N	Chromium	0.93	29.4	29.4	mg/kg	
E200.8/NONE	SO	JW-SB24-15	N	Copper	0.93	38.3 N	38.3	mg/kg	
E200.8/NONE	SO	JW-SB24-15	N	Manganese	4.6	490 D	490	mg/kg	
E200.8/NONE	SO	JW-SB24-15	N	Nickel	0.46	22.2	22.2	mg/kg	
E200.8/NONE	SO	JW-SB24-15	N	Lead	0.46	9.6	9.6	mg/kg	
E200.8/NONE	SO	JW-SB24-15	N	Thallium	0.46	0.31 J	0.31 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-15	N	Vanadium	2.3	65.7	65.7	mg/kg	
E200.8/NONE	SO	JW-SB24-15	N	Zinc	0.93	98.7	98.7	mg/kg	
E200.8/NONE	SO	JW-SB24-2	N	Silver	0.37	0.049 J	0.049 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-2	N	Arsenic	0.37	1.7	1.7	mg/kg	
E200.8/NONE	SO	JW-SB24-2	N	Barium	3.7	121	121	mg/kg	
E200.8/NONE	SO	JW-SB24-2	N	Beryllium	0.37	0.28 JE	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-2	N	Cadmium	0.37	0.56	0.56	mg/kg	
E200.8/NONE	SO	JW-SB24-2	N	Cobalt	0.37	9.2	9.2	mg/kg	
E200.8/NONE	SO	JW-SB24-2	N	Chromium	0.75	19.5	19.5	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SY2

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB24-2	N	Copper	0.75	21.5 N	21.5	mg/kg	
E200.8/NONE	SO	JW-SB24-2	N	Manganese	3.7	307 D	307	mg/kg	
E200.8/NONE	SO	JW-SB24-2	N	Nickel	0.37	12.9	12.9	mg/kg	
E200.8/NONE	SO	JW-SB24-2	N	Lead	3.7	76.1 D	76.1	mg/kg	
E200.8/NONE	SO	JW-SB24-2	N	Thallium	0.37	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-2	N	Vanadium	1.9	29.5	29.5	mg/kg	
E200.8/NONE	SO	JW-SB24-2	N	Zinc	7.5	157 D	157	mg/kg	
E200.8/NONE	SO	JW-SB24-25	N	Silver	0.45	0.058 J	0.058 J	mg/kg	D5/TR
E200.8/NONE	SO	JW-SB24-25	N	Arsenic	0.45	3.1	3.1	mg/kg	
E200.8/NONE	SO	JW-SB24-25	N	Barium	4.5	215	215	mg/kg	
E200.8/NONE	SO	JW-SB24-25	N	Beryllium	0.45	0.59 E	0.59	mg/kg	
E200.8/NONE	SO	JW-SB24-25	N	Cadmium	0.45	0.24 J	0.24 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-25	N	Cobalt	0.45	16.2	16.2	mg/kg	
E200.8/NONE	SO	JW-SB24-25	N	Chromium	0.89	26.3	26.3	mg/kg	
E200.8/NONE	SO	JW-SB24-25	N	Copper	0.89	28.9 N	28.9	mg/kg	
E200.8/NONE	SO	JW-SB24-25	N	Manganese	4.5	676 D	676	mg/kg	
E200.8/NONE	SO	JW-SB24-25	N	Nickel	0.45	21.0	21.0	mg/kg	
E200.8/NONE	SO	JW-SB24-25	N	Lead	0.45	5.3	5.3	mg/kg	
E200.8/NONE	SO	JW-SB24-25	N	Thallium	0.45	0.30 J	0.30 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-25	N	Vanadium	2.2	55.3	55.3	mg/kg	
E200.8/NONE	SO	JW-SB24-25	N	Zinc	0.89	89.5	89.5	mg/kg	
E200.8/NONE	SO	JW-SB24-26	FD	Silver	0.44	0.031 J	0.031 J	mg/kg	D5/TR
E200.8/NONE	SO	JW-SB24-26	FD	Arsenic	0.44	2.9	2.9	mg/kg	
E200.8/NONE	SO	JW-SB24-26	FD	Barium	4.4	226	226	mg/kg	
E200.8/NONE	SO	JW-SB24-26	FD	Beryllium	0.44	0.60 E	0.60	mg/kg	
E200.8/NONE	SO	JW-SB24-26	FD	Cadmium	0.44	0.18 J	0.18 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-26	FD	Cobalt	0.44	16.9	16.9	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB24-26	FD	Chromium	0.89	28.3	28.3	mg/kg	
E200.8/NONE	SO	JW-SB24-26	FD	Copper	0.89	29.0 N	29.0	mg/kg	
E200.8/NONE	SO	JW-SB24-26	FD	Manganese	4.4	689 D	689	mg/kg	
E200.8/NONE	SO	JW-SB24-26	FD	Nickel	0.44	21.9	21.9	mg/kg	
E200.8/NONE	SO	JW-SB24-26	FD	Lead	0.44	5.4	5.4	mg/kg	
E200.8/NONE	SO	JW-SB24-26	FD	Thallium	0.44	0.32 J	0.32 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-26	FD	Vanadium	2.2	57.8	57.8	mg/kg	
E200.8/NONE	SO	JW-SB24-26	FD	Zinc	0.89	96.5	96.5	mg/kg	
E200.8/NONE	SO	JW-SB24-35	N	Silver	0.39	0.0081 J	0.0081 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-35	N	Arsenic	0.39	12.7	12.7	mg/kg	
E200.8/NONE	SO	JW-SB24-35	N	Barium	3.9	90.7	90.7	mg/kg	
E200.8/NONE	SO	JW-SB24-35	N	Beryllium	0.39	0.28 JE	0.28 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-35	N	Cadmium	0.39	0.052 J	0.052 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-35	N	Cobalt	0.39	8.8	8.8	mg/kg	
E200.8/NONE	SO	JW-SB24-35	N	Chromium	0.79	11.1	11.1	mg/kg	
E200.8/NONE	SO	JW-SB24-35	N	Copper	0.79	10.2 N	10.2	mg/kg	
E200.8/NONE	SO	JW-SB24-35	N	Manganese	3.9	294 D	294	mg/kg	
E200.8/NONE	SO	JW-SB24-35	N	Nickel	0.39	8.9	8.9	mg/kg	
E200.8/NONE	SO	JW-SB24-35	N	Lead	0.39	2.6	2.6	mg/kg	
E200.8/NONE	SO	JW-SB24-35	N	Thallium	0.39	0.15 J	0.15 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-35	N	Vanadium	2.0	27.8	27.8	mg/kg	
E200.8/NONE	SO	JW-SB24-35	N	Zinc	0.79	45.7	45.7	mg/kg	
E200.8/NONE	SO	JW-SB24-5	N	Silver	0.37	0.034 J	0.034 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-5	N	Arsenic	0.37	1.4	1.4	mg/kg	
E200.8/NONE	SO	JW-SB24-5	N	Barium	3.7	104	104	mg/kg	
E200.8/NONE	SO	JW-SB24-5	N	Beryllium	0.37	0.27 JE	0.27 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-5	N	Cadmium	0.37	0.21 J	0.21 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SY2

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB24-5	N	Cobalt	0.37	8.5	8.5	mg/kg	
E200.8/NONE	SO	JW-SB24-5	N	Chromium	0.73	14.9	14.9	mg/kg	
E200.8/NONE	SO	JW-SB24-5	N	Copper	0.73	15.2 N	15.2	mg/kg	
E200.8/NONE	SO	JW-SB24-5	N	Manganese	3.7	296 D	296	mg/kg	
E200.8/NONE	SO	JW-SB24-5	N	Nickel	0.37	10.3	10.3	mg/kg	
E200.8/NONE	SO	JW-SB24-5	N	Lead	0.37	22.7	22.7	mg/kg	
E200.8/NONE	SO	JW-SB24-5	N	Thallium	0.37	0.16 J	0.16 J	mg/kg	TR
E200.8/NONE	SO	JW-SB24-5	N	Vanadium	1.8	27.8	27.8	mg/kg	
E200.8/NONE	SO	JW-SB24-5	N	Zinc	0.73	73.8	73.8	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SY2

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SY8

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9SY8, Certified - 4/10/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9SY8

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	12	1
SW7471B/NONE	12	1

AUTOMATED DATA REVIEW SUMMARY for MY9SY8

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9SY8. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9SY8

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 91 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

No COC receipt issues or calibration anomalies were noted.

No data qualifiers were added.

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 12:28:38 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9SY8

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75342-CC	PB82361	NA	JW-SB/SG22	SO	JW-SB22-0.5	G1597-01	LB75342-S0	1/1	18-Mar-2015 10:45 AM	27-Mar-2015 9:30 AM	27-Mar-2015 6:15 PM	N
	PB82361	NA	JW-SB/SG22	SO	JW-SB22-15	G1597-04	LB75342-S0	1/1	18-Mar-2015 11:05 AM	27-Mar-2015 9:30 AM	27-Mar-2015 6:27 PM	N
	PB82361	NA	JW-SB/SG22	SO	JW-SB22-2	G1597-02	LB75342-S0	1/1	18-Mar-2015 10:50 AM	27-Mar-2015 9:30 AM	27-Mar-2015 6:19 PM	N
	PB82361	NA	JW-SB/SG22	SO	JW-SB22-25	G1597-05	LB75342-S0	1/1	18-Mar-2015 11:15 AM	27-Mar-2015 9:30 AM	27-Mar-2015 6:31 PM	N
	PB82361	NA	JW-SB/SG22	SO	JW-SB22-35	G1597-06	LB75342-S0	1/1	18-Mar-2015 11:20 AM	27-Mar-2015 9:30 AM	27-Mar-2015 6:35 PM	N
	PB82361	NA	JW-SB/SG22	SO	JW-SB22-5	G1597-03	LB75342-S0	1/1	18-Mar-2015 10:55 AM	27-Mar-2015 9:30 AM	27-Mar-2015 6:23 PM	N
	PB82361	NA	JW-SB/SG23	SO	JW-SB23-0.5	G1597-07	LB75342-S0	1/1	19-Mar-2015 12:30 PM	27-Mar-2015 9:30 AM	27-Mar-2015 6:39 PM	N
	PB82361	NA	JW-SB/SG23	SO	JW-SB23-15	G1597-12	LB75342-S0	1/1	19-Mar-2015 1:00 PM	27-Mar-2015 9:30 AM	27-Mar-2015 7:04 PM	N
	PB82361	NA	JW-SB/SG23	SO	JW-SB23-2	G1597-08	LB75342-S0	1/1	19-Mar-2015 12:45 PM	27-Mar-2015 9:30 AM	27-Mar-2015 6:44 PM	N
	PB82361	NA	JW-SB/SG23	SO	JW-SB23-25	G1597-13	LB75342-S0	1/1	19-Mar-2015 1:10 PM	27-Mar-2015 9:30 AM	27-Mar-2015 7:08 PM	N
	PB82361	NA	JW-SB/SG23	SO	JW-SB23-5	G1597-10	LB75342-S0	1/1	19-Mar-2015 12:55 PM	27-Mar-2015 9:30 AM	27-Mar-2015 6:52 PM	LR
	PB82361	NA	JW-SB/SG23	SO	JW-SB23-5	G1597-11	LB75342-S0	1/1	19-Mar-2015 12:55 PM	27-Mar-2015 9:30 AM	27-Mar-2015 6:56 PM	MS
	PB82361	NA	JW-SB/SG23	SO	JW-SB23-5	G1597-09	LB75342-S0	1/1	19-Mar-2015 12:55 PM	27-Mar-2015 9:30 AM	27-Mar-2015 6:48 PM	N
	PB82361	NA	LABQC	SQ	LABQC	PB82361BS	LB75342-S0	1/1	27-Mar-2015 6:10 PM	27-Mar-2015 6:10 PM	27-Mar-2015 6:10 PM	BS
	PB82361	NA	LABQC	SQ	LABQC	PB82361BL	LB75342-S0	1/1	27-Mar-2015 6:06 PM	27-Mar-2015 6:06 PM	27-Mar-2015 6:06 PM	LB
LB75364-CC	PB82361	NA	JW-SB/SG23	SO	JW-SB23-35	G1597-14	LB75364-S0	1/1	19-Mar-2015 1:20 PM	27-Mar-2015 9:30 AM	30-Mar-2015 5:37 PM	N
	PB82361	NA	JW-SB/SG23	SO	JW-SB23-36	G1597-15	LB75364-S0	1/1	19-Mar-2015 1:25 PM	27-Mar-2015 9:30 AM	30-Mar-2015 5:41 PM	FD

AUTOMATED DATA REVIEW SUMMARY for MY9SY8

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75323-CC	PB82357	NA	JW-SB/SG22	SO	JW-SB22-0.5	G1597-01	LB75323-S0	1/1	18-Mar-2015 10:45 AM	27-Mar-2015 12:00 AM	27-Mar-2015 2:08 PM	N
	PB82357	NA	JW-SB/SG22	SO	JW-SB22-15	G1597-04	LB75323-S0	1/1	18-Mar-2015 11:05 AM	27-Mar-2015 12:00 AM	27-Mar-2015 2:15 PM	N
	PB82357	NA	JW-SB/SG22	SO	JW-SB22-2	G1597-02	LB75323-S0	1/1	18-Mar-2015 10:50 AM	27-Mar-2015 12:00 AM	27-Mar-2015 2:10 PM	N
	PB82357	NA	JW-SB/SG22	SO	JW-SB22-25	G1597-05	LB75323-S0	1/1	18-Mar-2015 11:15 AM	27-Mar-2015 12:00 AM	27-Mar-2015 2:17 PM	N
	PB82357	NA	JW-SB/SG22	SO	JW-SB22-35	G1597-06	LB75323-S0	1/1	18-Mar-2015 11:20 AM	27-Mar-2015 12:00 AM	27-Mar-2015 2:19 PM	N
	PB82357	NA	JW-SB/SG22	SO	JW-SB22-5	G1597-03	LB75323-S0	1/1	18-Mar-2015 10:55 AM	27-Mar-2015 12:00 AM	27-Mar-2015 2:13 PM	N
	PB82357	NA	JW-SB/SG23	SO	JW-SB23-0.5	G1597-07	LB75323-S0	1/1	19-Mar-2015 12:30 PM	27-Mar-2015 12:00 AM	27-Mar-2015 2:21 PM	N
	PB82357	NA	JW-SB/SG23	SO	JW-SB23-15	G1597-12	LB75323-S0	1/1	19-Mar-2015 1:00 PM	27-Mar-2015 12:00 AM	27-Mar-2015 2:34 PM	N
	PB82357	NA	JW-SB/SG23	SO	JW-SB23-2	G1597-08	LB75323-S0	1/1	19-Mar-2015 12:45 PM	27-Mar-2015 12:00 AM	27-Mar-2015 2:23 PM	N
	PB82357	NA	JW-SB/SG23	SO	JW-SB23-25	G1597-13	LB75323-S0	1/1	19-Mar-2015 1:10 PM	27-Mar-2015 12:00 AM	27-Mar-2015 2:36 PM	N
	PB82357	NA	JW-SB/SG23	SO	JW-SB23-35	G1597-14	LB75323-S0	1/1	19-Mar-2015 1:20 PM	27-Mar-2015 12:00 AM	27-Mar-2015 2:39 PM	N
	PB82357	NA	JW-SB/SG23	SO	JW-SB23-36	G1597-15	LB75323-S0	1/1	19-Mar-2015 1:25 PM	27-Mar-2015 12:00 AM	27-Mar-2015 2:41 PM	FD
	PB82357	NA	JW-SB/SG23	SO	JW-SB23-5	G1597-10	LB75323-S0	1/1	19-Mar-2015 12:55 PM	27-Mar-2015 12:00 AM	27-Mar-2015 2:30 PM	LR
	PB82357	NA	JW-SB/SG23	SO	JW-SB23-5	G1597-11	LB75323-S0	1/1	19-Mar-2015 12:55 PM	27-Mar-2015 12:00 AM	27-Mar-2015 2:32 PM	MS
	PB82357	NA	JW-SB/SG23	SO	JW-SB23-5	G1597-09	LB75323-S0	1/1	19-Mar-2015 12:55 PM	27-Mar-2015 12:00 AM	27-Mar-2015 2:25 PM	N
	PB82357	NA	LABQC	SQ	LABQC	PB82357BL	LB75323-S0	1/1	27-Mar-2015 2:06 PM	27-Mar-2015 2:06 PM	27-Mar-2015 2:06 PM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9SY8

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB22-0.5	N	Sodium	358	260 J	260 J	mg/kg	TR
E200.7/NONE	SO	JW-SB22-2	N	Sodium	360	188 J	188 J	mg/kg	TR
E200.7/NONE	SO	JW-SB23-2	N	Sodium	366	279 J	279 J	mg/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB22-0.5	N	Mercury	0.090	0.046 J	0.046 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB22-15	N	Mercury	0.12	0.052 J	0.052 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB22-2	N	Mercury	0.090	0.022 J	0.022 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB22-25	N	Mercury	0.11	0.054 J	0.054 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-0.5	N	Mercury	0.10	0.027 J	0.027 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-15	N	Mercury	0.088	0.035 J	0.035 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-2	N	Mercury	0.10	0.039 J	0.039 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-25	N	Mercury	0.11	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-35	N	Mercury	0.11	0.037 J	0.037 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-36	FD	Mercury	0.097	0.046 J	0.046 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-5	N	Mercury	0.10	0.040 J	0.040 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB22-0.5	N	Aluminum	14.3	8840	8840	mg/kg	
E200.7/NONE	SO	JW-SB22-0.5	N	Calcium	358	5210	5210	mg/kg	
E200.7/NONE	SO	JW-SB22-0.5	N	Iron	7.2	16500	16500	mg/kg	
E200.7/NONE	SO	JW-SB22-0.5	N	Potassium	358	3550	3550	mg/kg	
E200.7/NONE	SO	JW-SB22-0.5	N	Magnesium	358	5070	5070	mg/kg	
E200.7/NONE	SO	JW-SB22-0.5	N	Sodium	358	260 J	260 J	mg/kg	TR
E200.7/NONE	SO	JW-SB22-15	N	Aluminum	17.8	16600	16600	mg/kg	
E200.7/NONE	SO	JW-SB22-15	N	Calcium	445	6870	6870	mg/kg	
E200.7/NONE	SO	JW-SB22-15	N	Iron	8.9	27200	27200	mg/kg	
E200.7/NONE	SO	JW-SB22-15	N	Potassium	445	5150	5150	mg/kg	
E200.7/NONE	SO	JW-SB22-15	N	Magnesium	445	9190	9190	mg/kg	
E200.7/NONE	SO	JW-SB22-15	N	Sodium	445	1270	1270	mg/kg	
E200.7/NONE	SO	JW-SB22-2	N	Aluminum	14.4	6530	6530	mg/kg	
E200.7/NONE	SO	JW-SB22-2	N	Calcium	360	3930	3930	mg/kg	
E200.7/NONE	SO	JW-SB22-2	N	Iron	7.2	13200	13200	mg/kg	
E200.7/NONE	SO	JW-SB22-2	N	Potassium	360	2470	2470	mg/kg	
E200.7/NONE	SO	JW-SB22-2	N	Magnesium	360	3740	3740	mg/kg	
E200.7/NONE	SO	JW-SB22-2	N	Sodium	360	188 J	188 J	mg/kg	TR
E200.7/NONE	SO	JW-SB22-25	N	Aluminum	16.1	15600	15600	mg/kg	
E200.7/NONE	SO	JW-SB22-25	N	Calcium	401	10200	10200	mg/kg	
E200.7/NONE	SO	JW-SB22-25	N	Iron	8.0	26600	26600	mg/kg	
E200.7/NONE	SO	JW-SB22-25	N	Potassium	401	5230	5230	mg/kg	
E200.7/NONE	SO	JW-SB22-25	N	Magnesium	401	9870	9870	mg/kg	
E200.7/NONE	SO	JW-SB22-25	N	Sodium	401	1400	1400	mg/kg	
E200.7/NONE	SO	JW-SB22-35	N	Aluminum	15.3	8440	8440	mg/kg	
E200.7/NONE	SO	JW-SB22-35	N	Calcium	382	5250	5250	mg/kg	
E200.7/NONE	SO	JW-SB22-35	N	Iron	7.6	15200	15200	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SY8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB22-35	N	Potassium	382	2800	2800	mg/kg	
E200.7/NONE	SO	JW-SB22-35	N	Magnesium	382	5240	5240	mg/kg	
E200.7/NONE	SO	JW-SB22-35	N	Sodium	382	465	465	mg/kg	
E200.7/NONE	SO	JW-SB22-5	N	Aluminum	15.5	15500	15500	mg/kg	
E200.7/NONE	SO	JW-SB22-5	N	Calcium	388	9880	9880	mg/kg	
E200.7/NONE	SO	JW-SB22-5	N	Iron	7.8	25400	25400	mg/kg	
E200.7/NONE	SO	JW-SB22-5	N	Potassium	388	4090	4090	mg/kg	
E200.7/NONE	SO	JW-SB22-5	N	Magnesium	388	8380	8380	mg/kg	
E200.7/NONE	SO	JW-SB22-5	N	Sodium	388	538	538	mg/kg	
E200.7/NONE	SO	JW-SB23-0.5	N	Aluminum	15.4	11700	11700	mg/kg	
E200.7/NONE	SO	JW-SB23-0.5	N	Calcium	385	7260	7260	mg/kg	
E200.7/NONE	SO	JW-SB23-0.5	N	Iron	7.7	21400	21400	mg/kg	
E200.7/NONE	SO	JW-SB23-0.5	N	Potassium	385	4660	4660	mg/kg	
E200.7/NONE	SO	JW-SB23-0.5	N	Magnesium	385	6870	6870	mg/kg	
E200.7/NONE	SO	JW-SB23-0.5	N	Sodium	385	460	460	mg/kg	
E200.7/NONE	SO	JW-SB23-15	N	Aluminum	14.5	6320	6320	mg/kg	
E200.7/NONE	SO	JW-SB23-15	N	Calcium	363	4360	4360	mg/kg	
E200.7/NONE	SO	JW-SB23-15	N	Iron	7.3	11900	11900	mg/kg	
E200.7/NONE	SO	JW-SB23-15	N	Potassium	363	2020	2020	mg/kg	
E200.7/NONE	SO	JW-SB23-15	N	Magnesium	363	4060	4060	mg/kg	
E200.7/NONE	SO	JW-SB23-15	N	Sodium	363	403	403	mg/kg	
E200.7/NONE	SO	JW-SB23-2	N	Aluminum	14.6	9520	9520	mg/kg	
E200.7/NONE	SO	JW-SB23-2	N	Calcium	366	5140	5140	mg/kg	
E200.7/NONE	SO	JW-SB23-2	N	Iron	7.3	17100	17100	mg/kg	
E200.7/NONE	SO	JW-SB23-2	N	Potassium	366	4170	4170	mg/kg	
E200.7/NONE	SO	JW-SB23-2	N	Magnesium	366	5610	5610	mg/kg	
E200.7/NONE	SO	JW-SB23-2	N	Sodium	366	279 J	279 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SY8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	JW-SB23-25	N	Aluminum	16.8	18200	18200	mg/kg	
E200.7/NONE	SO	JW-SB23-25	N	Calcium	421	16400	16400	mg/kg	
E200.7/NONE	SO	JW-SB23-25	N	Iron	8.4	29900	29900	mg/kg	
E200.7/NONE	SO	JW-SB23-25	N	Potassium	421	5360	5360	mg/kg	
E200.7/NONE	SO	JW-SB23-25	N	Magnesium	421	10700	10700	mg/kg	
E200.7/NONE	SO	JW-SB23-25	N	Sodium	421	1790	1790	mg/kg	
E200.7/NONE	SO	JW-SB23-35	N	Aluminum	15.0	10400	10400	mg/kg	
E200.7/NONE	SO	JW-SB23-35	N	Calcium	374	4830	4830	mg/kg	
E200.7/NONE	SO	JW-SB23-35	N	Iron	7.5	18600	18600	mg/kg	
E200.7/NONE	SO	JW-SB23-35	N	Potassium	374	3530	3530	mg/kg	
E200.7/NONE	SO	JW-SB23-35	N	Magnesium	374	6320	6320	mg/kg	
E200.7/NONE	SO	JW-SB23-35	N	Sodium	374	540	540	mg/kg	
E200.7/NONE	SO	JW-SB23-36	FD	Aluminum	14.6	9250	9250	mg/kg	
E200.7/NONE	SO	JW-SB23-36	FD	Calcium	365	4390	4390	mg/kg	
E200.7/NONE	SO	JW-SB23-36	FD	Iron	7.3	17000	17000	mg/kg	
E200.7/NONE	SO	JW-SB23-36	FD	Potassium	365	3040	3040	mg/kg	
E200.7/NONE	SO	JW-SB23-36	FD	Magnesium	365	5510	5510	mg/kg	
E200.7/NONE	SO	JW-SB23-36	FD	Sodium	365	504	504	mg/kg	
E200.7/NONE	SO	JW-SB23-5	N	Aluminum	15.5	13600	13600	mg/kg	
E200.7/NONE	SO	JW-SB23-5	N	Calcium	388	8020	8020	mg/kg	
E200.7/NONE	SO	JW-SB23-5	N	Iron	7.8	22400	22400	mg/kg	
E200.7/NONE	SO	JW-SB23-5	N	Potassium	388	4450	4450	mg/kg	
E200.7/NONE	SO	JW-SB23-5	N	Magnesium	388	7280	7280	mg/kg	
E200.7/NONE	SO	JW-SB23-5	N	Sodium	388	483	483	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB22-0.5	N	Mercury	0.090	0.046 J	0.046 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SY8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	JW-SB22-15	N	Mercury	0.12	0.052 J	0.052 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB22-2	N	Mercury	0.090	0.022 J	0.022 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB22-25	N	Mercury	0.11	0.054 J	0.054 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB22-35	N	Mercury	0.10	0.10	0.10	mg/kg	
SW7471B/NONE	SO	JW-SB22-5	N	Mercury	0.11	0.11 J	0.11	mg/kg	
SW7471B/NONE	SO	JW-SB23-0.5	N	Mercury	0.10	0.027 J	0.027 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-15	N	Mercury	0.088	0.035 J	0.035 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-2	N	Mercury	0.10	0.039 J	0.039 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-25	N	Mercury	0.11	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-35	N	Mercury	0.11	0.037 J	0.037 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-36	FD	Mercury	0.097	0.046 J	0.046 J	mg/kg	TR
SW7471B/NONE	SO	JW-SB23-5	N	Mercury	0.10	0.040 J	0.040 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SY8

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: MY9SY9, Certified - 4/10/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: August 10, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9SY9

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.8/NONE	12	1

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) MY9SY9. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 2 results (0.96%) out of the 208 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

No COC receipt issues or calibration anomalies were noted.

Data qualifiers were added for minor poor matrix spike recoveries (M).

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 12:32:07 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75384-CC	PB82363	NA	JW-SB/SG22	SO	JW-SB22-0.5	G1598-01	LB75384-S0	1/1	18-Mar-2015 10:45 AM	27-Mar-2015 10:00 AM	31-Mar-2015 7:47 AM	N
	PB82363	NA	JW-SB/SG22	SO	JW-SB22-0.5	G1598-01	LB75384-S0	1/10	18-Mar-2015 10:45 AM	27-Mar-2015 10:00 AM	31-Mar-2015 7:55 AM	N
	PB82363	NA	JW-SB/SG22	SO	JW-SB22-15	G1598-04	LB75384-S0	1/1	18-Mar-2015 11:05 AM	27-Mar-2015 10:00 AM	31-Mar-2015 8:34 AM	N
	PB82363	NA	JW-SB/SG22	SO	JW-SB22-15	G1598-04	LB75384-S0	1/10	18-Mar-2015 11:05 AM	27-Mar-2015 10:00 AM	31-Mar-2015 8:42 AM	N
	PB82363	NA	JW-SB/SG22	SO	JW-SB22-2	G1598-02	LB75384-S0	1/1	18-Mar-2015 10:50 AM	27-Mar-2015 10:00 AM	31-Mar-2015 8:03 AM	N
	PB82363	NA	JW-SB/SG22	SO	JW-SB22-2	G1598-02	LB75384-S0	1/10	18-Mar-2015 10:50 AM	27-Mar-2015 10:00 AM	31-Mar-2015 8:10 AM	N
	PB82363	NA	JW-SB/SG22	SO	JW-SB22-25	G1598-05	LB75384-S0	1/1	18-Mar-2015 11:15 AM	27-Mar-2015 10:00 AM	31-Mar-2015 9:13 AM	N
	PB82363	NA	JW-SB/SG22	SO	JW-SB22-25	G1598-05	LB75384-S0	1/10	18-Mar-2015 11:15 AM	27-Mar-2015 10:00 AM	31-Mar-2015 9:21 AM	N
	PB82363	NA	JW-SB/SG22	SO	JW-SB22-35	G1598-06	LB75384-S0	1/1	18-Mar-2015 11:20 AM	27-Mar-2015 10:00 AM	31-Mar-2015 9:29 AM	N
	PB82363	NA	JW-SB/SG22	SO	JW-SB22-35	G1598-06	LB75384-S0	1/10	18-Mar-2015 11:20 AM	27-Mar-2015 10:00 AM	31-Mar-2015 9:37 AM	N
	PB82363	NA	JW-SB/SG22	SO	JW-SB22-5	G1598-03	LB75384-S0	1/1	18-Mar-2015 10:55 AM	27-Mar-2015 10:00 AM	31-Mar-2015 8:18 AM	N
	PB82363	NA	JW-SB/SG22	SO	JW-SB22-5	G1598-03	LB75384-S0	1/10	18-Mar-2015 10:55 AM	27-Mar-2015 10:00 AM	31-Mar-2015 8:26 AM	N
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-0.5	G1598-07	LB75384-S0	1/1	19-Mar-2015 12:30 PM	27-Mar-2015 10:00 AM	31-Mar-2015 9:45 AM	N
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-0.5	G1598-07	LB75384-S0	1/10	19-Mar-2015 12:30 PM	27-Mar-2015 10:00 AM	31-Mar-2015 9:53 AM	N
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-15	G1598-12	LB75384-S0	1/1	19-Mar-2015 1:00 PM	27-Mar-2015 10:00 AM	31-Mar-2015 11:43 AM	N
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-15	G1598-12	LB75384-S0	1/10	19-Mar-2015 1:00 PM	27-Mar-2015 10:00 AM	31-Mar-2015 11:51 AM	N
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-2	G1598-08	LB75384-S0	1/1	19-Mar-2015 12:45 PM	27-Mar-2015 10:00 AM	31-Mar-2015 10:01 AM	N
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-2	G1598-08	LB75384-S0	1/10	19-Mar-2015 12:45 PM	27-Mar-2015 10:00 AM	31-Mar-2015 10:08 AM	N
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-25	G1598-13	LB75384-S0	1/1	19-Mar-2015 1:10 PM	27-Mar-2015 10:00 AM	31-Mar-2015 11:59 AM	N
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-25	G1598-13	LB75384-S0	1/10	19-Mar-2015 1:10 PM	27-Mar-2015 10:00 AM	31-Mar-2015 12:07 PM	N
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-35	G1598-14	LB75384-S0	1/1	19-Mar-2015 1:20 PM	27-Mar-2015 10:00 AM	31-Mar-2015 12:38 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB75384-CC	PB82363	NA	JW-SB/SG23	SO	JW-SB23-35	G1598-14	LB75384-S0	1/10	19-Mar-2015 1:20 PM	27-Mar-2015 10:00 AM	31-Mar-2015 12:46 PM	N
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-36	G1598-15	LB75384-S0	1/1	19-Mar-2015 1:25 PM	27-Mar-2015 10:00 AM	31-Mar-2015 12:54 PM	FD
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-36	G1598-15	LB75384-S0	1/10	19-Mar-2015 1:25 PM	27-Mar-2015 10:00 AM	31-Mar-2015 1:02 PM	FD
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-5	G1598-10	LB75384-S0	1/1	19-Mar-2015 12:55 PM	27-Mar-2015 10:00 AM	31-Mar-2015 10:56 AM	LR
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-5	G1598-10	LB75384-S0	1/10	19-Mar-2015 12:55 PM	27-Mar-2015 10:00 AM	31-Mar-2015 11:04 AM	LR
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-5	G1598-11	LB75384-S0	1/1	19-Mar-2015 12:55 PM	27-Mar-2015 10:00 AM	31-Mar-2015 11:12 AM	MS
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-5	G1598-11	LB75384-S0	1/10	19-Mar-2015 12:55 PM	27-Mar-2015 10:00 AM	31-Mar-2015 11:19 AM	MS
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-5	G1598-09	LB75384-S0	1/1	19-Mar-2015 12:55 PM	27-Mar-2015 10:00 AM	31-Mar-2015 10:16 AM	N
	PB82363	NA	JW-SB/SG23	SO	JW-SB23-5	G1598-09	LB75384-S0	1/10	19-Mar-2015 12:55 PM	27-Mar-2015 10:00 AM	31-Mar-2015 10:24 AM	N
	PB82363	NA	LABQC	SQ	LABQC	PB82363BS	LB75384-S0	1/1	27-Mar-2015 10:00 AM	27-Mar-2015 10:00 AM	31-Mar-2015 7:39 AM	BS
	PB82363	NA	LABQC	SQ	LABQC	PB82363BL	LB75384-S0	1/1	27-Mar-2015 10:00 AM	27-Mar-2015 10:00 AM	31-Mar-2015 7:31 AM	LB

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.8 / METHOD	MS Recovery	JW-SB23-5 (MS)	1 / 1.00	Antimony	24.7	Percent	J/R	75 - 125	50 - 135	M			
E200.8 / METHOD	MS Recovery	JW-SB23-5 (MS)	1 / 1.00	Lead	136	Percent	J/None	75 - 125	50 - 135	M			

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB22-0.5	N	Selenium	1.9	0.076 J	0.076 J	mg/kg	TR
E200.8/NONE	SO	JW-SB22-15	N	Selenium	2.2	0.24 J	0.24 J	mg/kg	TR
E200.8/NONE	SO	JW-SB22-2	N	Selenium	1.9	0.023 J	0.023 J	mg/kg	TR
E200.8/NONE	SO	JW-SB22-25	N	Selenium	2.1	0.084 J	0.084 J	mg/kg	TR
E200.8/NONE	SO	JW-SB22-35	N	Selenium	1.9	0.080 J	0.080 J	mg/kg	TR
E200.8/NONE	SO	JW-SB22-5	N	Selenium	2.1	0.063 J	0.063 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-0.5	N	Selenium	1.9	0.093 J	0.093 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-15	N	Selenium	1.8	0.044 J	0.044 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-2	N	Selenium	1.8	0.069 J	0.069 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-25	N	Selenium	2.2	0.29 J	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-35	N	Selenium	1.8	0.038 J	0.038 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-36	FD	Selenium	1.9	0.054 J	0.054 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-5	N	Antimony	0.78	0.78 JN	0.78 UJ	mg/kg	M
E200.8/NONE	SO	JW-SB23-5	N	Lead	0.39	5.6 N	5.6 J	mg/kg	M
E200.8/NONE	SO	JW-SB23-5	N	Selenium	1.9	0.14 J	0.14 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB22-0.5	N	Arsenic	0.37	1.3	1.3	mg/kg	
E200.8/NONE	SO	JW-SB22-0.5	N	Barium	3.7	99.0	99.0	mg/kg	
E200.8/NONE	SO	JW-SB22-0.5	N	Cobalt	0.37	7.1	7.1	mg/kg	
E200.8/NONE	SO	JW-SB22-0.5	N	Chromium	0.74	13.1	13.1	mg/kg	
E200.8/NONE	SO	JW-SB22-0.5	N	Copper	0.74	13.8	13.8	mg/kg	
E200.8/NONE	SO	JW-SB22-0.5	N	Manganese	3.7	265 D	265	mg/kg	
E200.8/NONE	SO	JW-SB22-0.5	N	Nickel	0.37	9.0	9.0	mg/kg	
E200.8/NONE	SO	JW-SB22-0.5	N	Lead	0.37	30.1 N	30.1	mg/kg	
E200.8/NONE	SO	JW-SB22-0.5	N	Selenium	1.9	0.076 J	0.076 J	mg/kg	TR
E200.8/NONE	SO	JW-SB22-0.5	N	Vanadium	1.9	26.4	26.4	mg/kg	
E200.8/NONE	SO	JW-SB22-0.5	N	Zinc	0.74	72.2	72.2	mg/kg	
E200.8/NONE	SO	JW-SB22-15	N	Arsenic	0.44	2.8	2.8	mg/kg	
E200.8/NONE	SO	JW-SB22-15	N	Barium	4.4	213	213	mg/kg	
E200.8/NONE	SO	JW-SB22-15	N	Beryllium	0.44	0.57	0.57	mg/kg	
E200.8/NONE	SO	JW-SB22-15	N	Cobalt	0.44	13.2	13.2	mg/kg	
E200.8/NONE	SO	JW-SB22-15	N	Chromium	0.88	24.0	24.0	mg/kg	
E200.8/NONE	SO	JW-SB22-15	N	Copper	0.88	22.9	22.9	mg/kg	
E200.8/NONE	SO	JW-SB22-15	N	Manganese	4.4	403 D	403	mg/kg	
E200.8/NONE	SO	JW-SB22-15	N	Nickel	0.44	17.7	17.7	mg/kg	
E200.8/NONE	SO	JW-SB22-15	N	Lead	0.44	5.3 N	5.3	mg/kg	
E200.8/NONE	SO	JW-SB22-15	N	Selenium	2.2	0.24 J	0.24 J	mg/kg	TR
E200.8/NONE	SO	JW-SB22-15	N	Vanadium	2.2	52.6	52.6	mg/kg	
E200.8/NONE	SO	JW-SB22-15	N	Zinc	0.88	80.7	80.7	mg/kg	
E200.8/NONE	SO	JW-SB22-2	N	Arsenic	0.37	0.73	0.73	mg/kg	
E200.8/NONE	SO	JW-SB22-2	N	Barium	3.7	69.4	69.4	mg/kg	
E200.8/NONE	SO	JW-SB22-2	N	Cobalt	0.37	4.9	4.9	mg/kg	
E200.8/NONE	SO	JW-SB22-2	N	Chromium	0.74	7.6	7.6	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB22-2	N	Copper	0.74	6.9	6.9	mg/kg	
E200.8/NONE	SO	JW-SB22-2	N	Manganese	3.7	188 D	188	mg/kg	
E200.8/NONE	SO	JW-SB22-2	N	Nickel	0.37	5.9	5.9	mg/kg	
E200.8/NONE	SO	JW-SB22-2	N	Lead	0.37	2.2 N	2.2	mg/kg	
E200.8/NONE	SO	JW-SB22-2	N	Selenium	1.9	0.023 J	0.023 J	mg/kg	TR
E200.8/NONE	SO	JW-SB22-2	N	Vanadium	1.9	19.4	19.4	mg/kg	
E200.8/NONE	SO	JW-SB22-2	N	Zinc	0.74	32.6	32.6	mg/kg	
E200.8/NONE	SO	JW-SB22-25	N	Arsenic	0.41	2.6	2.6	mg/kg	
E200.8/NONE	SO	JW-SB22-25	N	Barium	4.1	177	177	mg/kg	
E200.8/NONE	SO	JW-SB22-25	N	Beryllium	0.41	0.51	0.51	mg/kg	
E200.8/NONE	SO	JW-SB22-25	N	Cobalt	0.41	13.1	13.1	mg/kg	
E200.8/NONE	SO	JW-SB22-25	N	Chromium	0.83	21.8	21.8	mg/kg	
E200.8/NONE	SO	JW-SB22-25	N	Copper	0.83	21.6	21.6	mg/kg	
E200.8/NONE	SO	JW-SB22-25	N	Manganese	4.1	464 D	464	mg/kg	
E200.8/NONE	SO	JW-SB22-25	N	Nickel	0.41	16.7	16.7	mg/kg	
E200.8/NONE	SO	JW-SB22-25	N	Lead	0.41	4.2 N	4.2	mg/kg	
E200.8/NONE	SO	JW-SB22-25	N	Selenium	2.1	0.084 J	0.084 J	mg/kg	TR
E200.8/NONE	SO	JW-SB22-25	N	Vanadium	2.1	46.2	46.2	mg/kg	
E200.8/NONE	SO	JW-SB22-25	N	Zinc	0.83	80.6	80.6	mg/kg	
E200.8/NONE	SO	JW-SB22-35	N	Arsenic	0.39	12.0	12.0	mg/kg	
E200.8/NONE	SO	JW-SB22-35	N	Barium	3.9	97.6	97.6	mg/kg	
E200.8/NONE	SO	JW-SB22-35	N	Cobalt	0.39	6.8	6.8	mg/kg	
E200.8/NONE	SO	JW-SB22-35	N	Chromium	0.77	10.4	10.4	mg/kg	
E200.8/NONE	SO	JW-SB22-35	N	Copper	0.77	9.6	9.6	mg/kg	
E200.8/NONE	SO	JW-SB22-35	N	Manganese	3.9	267 D	267	mg/kg	
E200.8/NONE	SO	JW-SB22-35	N	Nickel	0.39	8.2	8.2	mg/kg	
E200.8/NONE	SO	JW-SB22-35	N	Lead	0.39	2.4 N	2.4	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB22-35	N	Selenium	1.9	0.080 J	0.080 J	mg/kg	TR
E200.8/NONE	SO	JW-SB22-35	N	Vanadium	1.9	27.6	27.6	mg/kg	
E200.8/NONE	SO	JW-SB22-35	N	Zinc	0.77	44.7	44.7	mg/kg	
E200.8/NONE	SO	JW-SB22-5	N	Arsenic	0.41	2.2	2.2	mg/kg	
E200.8/NONE	SO	JW-SB22-5	N	Barium	4.1	161	161	mg/kg	
E200.8/NONE	SO	JW-SB22-5	N	Beryllium	0.41	0.54	0.54	mg/kg	
E200.8/NONE	SO	JW-SB22-5	N	Cobalt	0.41	12.3	12.3	mg/kg	
E200.8/NONE	SO	JW-SB22-5	N	Chromium	0.83	21.4	21.4	mg/kg	
E200.8/NONE	SO	JW-SB22-5	N	Copper	0.83	22.8	22.8	mg/kg	
E200.8/NONE	SO	JW-SB22-5	N	Manganese	4.1	477 D	477	mg/kg	
E200.8/NONE	SO	JW-SB22-5	N	Nickel	0.41	16.4	16.4	mg/kg	
E200.8/NONE	SO	JW-SB22-5	N	Lead	0.41	5.7 N	5.7	mg/kg	
E200.8/NONE	SO	JW-SB22-5	N	Selenium	2.1	0.063 J	0.063 J	mg/kg	TR
E200.8/NONE	SO	JW-SB22-5	N	Vanadium	2.1	46.6	46.6	mg/kg	
E200.8/NONE	SO	JW-SB22-5	N	Zinc	0.83	75.8	75.8	mg/kg	
E200.8/NONE	SO	JW-SB23-0.5	N	Arsenic	0.37	1.4	1.4	mg/kg	
E200.8/NONE	SO	JW-SB23-0.5	N	Barium	3.7	139	139	mg/kg	
E200.8/NONE	SO	JW-SB23-0.5	N	Beryllium	0.37	0.38	0.38	mg/kg	
E200.8/NONE	SO	JW-SB23-0.5	N	Cobalt	0.37	9.9	9.9	mg/kg	
E200.8/NONE	SO	JW-SB23-0.5	N	Chromium	0.74	23.5	23.5	mg/kg	
E200.8/NONE	SO	JW-SB23-0.5	N	Copper	0.74	16.9	16.9	mg/kg	
E200.8/NONE	SO	JW-SB23-0.5	N	Manganese	3.7	336 D	336	mg/kg	
E200.8/NONE	SO	JW-SB23-0.5	N	Nickel	0.37	13.5	13.5	mg/kg	
E200.8/NONE	SO	JW-SB23-0.5	N	Lead	0.37	8.7 N	8.7	mg/kg	
E200.8/NONE	SO	JW-SB23-0.5	N	Selenium	1.9	0.093 J	0.093 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-0.5	N	Vanadium	1.9	35.8	35.8	mg/kg	
E200.8/NONE	SO	JW-SB23-0.5	N	Zinc	0.74	106	106	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB23-15	N	Arsenic	0.35	0.86	0.86	mg/kg	
E200.8/NONE	SO	JW-SB23-15	N	Barium	3.5	62.8	62.8	mg/kg	
E200.8/NONE	SO	JW-SB23-15	N	Cobalt	0.35	4.6	4.6	mg/kg	
E200.8/NONE	SO	JW-SB23-15	N	Chromium	0.70	8.1	8.1	mg/kg	
E200.8/NONE	SO	JW-SB23-15	N	Copper	0.70	7.2	7.2	mg/kg	
E200.8/NONE	SO	JW-SB23-15	N	Manganese	3.5	194 D	194	mg/kg	
E200.8/NONE	SO	JW-SB23-15	N	Nickel	0.35	6.0	6.0	mg/kg	
E200.8/NONE	SO	JW-SB23-15	N	Lead	0.35	1.8 N	1.8	mg/kg	
E200.8/NONE	SO	JW-SB23-15	N	Selenium	1.8	0.044 J	0.044 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-15	N	Vanadium	1.8	20.1	20.1	mg/kg	
E200.8/NONE	SO	JW-SB23-15	N	Zinc	0.70	32.6	32.6	mg/kg	
E200.8/NONE	SO	JW-SB23-2	N	Arsenic	0.37	1.2	1.2	mg/kg	
E200.8/NONE	SO	JW-SB23-2	N	Barium	3.7	106	106	mg/kg	
E200.8/NONE	SO	JW-SB23-2	N	Cobalt	0.37	7.4	7.4	mg/kg	
E200.8/NONE	SO	JW-SB23-2	N	Chromium	0.73	12.6	12.6	mg/kg	
E200.8/NONE	SO	JW-SB23-2	N	Copper	0.73	12.9	12.9	mg/kg	
E200.8/NONE	SO	JW-SB23-2	N	Manganese	3.7	275 D	275	mg/kg	
E200.8/NONE	SO	JW-SB23-2	N	Nickel	0.37	9.8	9.8	mg/kg	
E200.8/NONE	SO	JW-SB23-2	N	Lead	0.37	9.4 N	9.4	mg/kg	
E200.8/NONE	SO	JW-SB23-2	N	Selenium	1.8	0.069 J	0.069 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-2	N	Vanadium	1.8	29.2	29.2	mg/kg	
E200.8/NONE	SO	JW-SB23-2	N	Zinc	0.73	59.1	59.1	mg/kg	
E200.8/NONE	SO	JW-SB23-25	N	Arsenic	0.43	3.4	3.4	mg/kg	
E200.8/NONE	SO	JW-SB23-25	N	Barium	4.3	218	218	mg/kg	
E200.8/NONE	SO	JW-SB23-25	N	Beryllium	0.43	0.60	0.60	mg/kg	
E200.8/NONE	SO	JW-SB23-25	N	Cobalt	0.43	14.7	14.7	mg/kg	
E200.8/NONE	SO	JW-SB23-25	N	Chromium	0.87	26.8	26.8	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB23-25	N	Copper	0.87	31.3	31.3	mg/kg	
E200.8/NONE	SO	JW-SB23-25	N	Manganese	4.3	594 D	594	mg/kg	
E200.8/NONE	SO	JW-SB23-25	N	Nickel	0.43	21.3	21.3	mg/kg	
E200.8/NONE	SO	JW-SB23-25	N	Lead	0.43	6.0 N	6.0	mg/kg	
E200.8/NONE	SO	JW-SB23-25	N	Selenium	2.2	0.29 J	0.29 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-25	N	Vanadium	2.2	54.4	54.4	mg/kg	
E200.8/NONE	SO	JW-SB23-25	N	Zinc	0.87	87.8	87.8	mg/kg	
E200.8/NONE	SO	JW-SB23-35	N	Arsenic	0.37	11.0	11.0	mg/kg	
E200.8/NONE	SO	JW-SB23-35	N	Barium	3.7	103	103	mg/kg	
E200.8/NONE	SO	JW-SB23-35	N	Cobalt	0.37	7.0	7.0	mg/kg	
E200.8/NONE	SO	JW-SB23-35	N	Chromium	0.73	11.9	11.9	mg/kg	
E200.8/NONE	SO	JW-SB23-35	N	Copper	0.73	10.0	10.0	mg/kg	
E200.8/NONE	SO	JW-SB23-35	N	Manganese	3.7	276 D	276	mg/kg	
E200.8/NONE	SO	JW-SB23-35	N	Nickel	0.37	9.3	9.3	mg/kg	
E200.8/NONE	SO	JW-SB23-35	N	Lead	0.37	2.5 N	2.5	mg/kg	
E200.8/NONE	SO	JW-SB23-35	N	Selenium	1.8	0.038 J	0.038 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-35	N	Vanadium	1.8	28.1	28.1	mg/kg	
E200.8/NONE	SO	JW-SB23-35	N	Zinc	0.73	47.8	47.8	mg/kg	
E200.8/NONE	SO	JW-SB23-36	FD	Arsenic	0.39	10.4	10.4	mg/kg	
E200.8/NONE	SO	JW-SB23-36	FD	Barium	3.9	98.1	98.1	mg/kg	
E200.8/NONE	SO	JW-SB23-36	FD	Cobalt	0.39	6.4	6.4	mg/kg	
E200.8/NONE	SO	JW-SB23-36	FD	Chromium	0.78	11.4	11.4	mg/kg	
E200.8/NONE	SO	JW-SB23-36	FD	Copper	0.78	10.3	10.3	mg/kg	
E200.8/NONE	SO	JW-SB23-36	FD	Manganese	3.9	253 D	253	mg/kg	
E200.8/NONE	SO	JW-SB23-36	FD	Nickel	0.39	8.7	8.7	mg/kg	
E200.8/NONE	SO	JW-SB23-36	FD	Lead	0.39	2.5 N	2.5	mg/kg	
E200.8/NONE	SO	JW-SB23-36	FD	Selenium	1.9	0.054 J	0.054 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	SO	JW-SB23-36	FD	Vanadium	1.9	27.5	27.5	mg/kg	
E200.8/NONE	SO	JW-SB23-36	FD	Zinc	0.78	42.4	42.4	mg/kg	
E200.8/NONE	SO	JW-SB23-5	N	Arsenic	0.39	1.8	1.8	mg/kg	
E200.8/NONE	SO	JW-SB23-5	N	Barium	3.9	142	142	mg/kg	
E200.8/NONE	SO	JW-SB23-5	N	Beryllium	0.39	0.47	0.47	mg/kg	
E200.8/NONE	SO	JW-SB23-5	N	Cobalt	0.39	10.8	10.8	mg/kg	
E200.8/NONE	SO	JW-SB23-5	N	Chromium	0.78	19.0	19.0	mg/kg	
E200.8/NONE	SO	JW-SB23-5	N	Copper	0.78	19.3	19.3	mg/kg	
E200.8/NONE	SO	JW-SB23-5	N	Manganese	3.9	375 D	375	mg/kg	
E200.8/NONE	SO	JW-SB23-5	N	Nickel	0.39	14.4	14.4	mg/kg	
E200.8/NONE	SO	JW-SB23-5	N	Lead	0.39	5.6 N	5.6 J	mg/kg	M
E200.8/NONE	SO	JW-SB23-5	N	Selenium	1.9	0.14 J	0.14 J	mg/kg	TR
E200.8/NONE	SO	JW-SB23-5	N	Vanadium	1.9	40.4	40.4	mg/kg	
E200.8/NONE	SO	JW-SB23-5	N	Zinc	0.78	68.6	68.6	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9SY9

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9SL9

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: Liberty Analytical Corporation
Field Contractor: Gilbane Company, Walnut Creek, CA
Data Review Contractor: Gilbane

SDG: Y9SL9, Certified - 4/14/2015 by wtse
QC Level: S2BVEM (Tier 1B)
Project Manager: Don Gruber

Data Reviewer: Tom Beer
Data Reviewer Title: Project Chemist
Date of Review Report: August 07, 2015
Second Reviewer:
Completion Date of Second Reviewer:

Samples Included in SDG Y9SL9

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
CSVOL12/NONE	18	2
SW8082/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for Y9SL9

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by Liberty Analytical Corporation and were reported under sample delivery group (SDG) Y9SL9. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for Y9SL9

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 13 results (0.86%) out of the 1520 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

All samples were delayed in shipment and received at elevated temperatures. VOCs were not analyzed and no data qualification appears warranted.

Data qualifiers were added for continuing calibration anomalies (C11), poor surrogate recoveries (S), and imprecision for one field duplicate data pair (D5).

No results were rejected but 20 VOCs samples were not analyzed.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.07 17:11:42 -07'00'

07-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9SL9

Batch Report

AUTOMATED DATA REVIEW SUMMARY for Y9SL9

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C25012-TU	5031905_20	NA	JW-SB/SG07	SO	JW-SB07-0.5	1503051-01	5032608_5C	1/1	12-Mar-2015 8:20 AM	20-Mar-2015 2:12 PM	25-Mar-2015 6:55 PM	N
	5031905_20	NA	JW-SB/SG07	SO	JW-SB07-2	1503051-02	5032608_5C	1/1	12-Mar-2015 8:25 AM	20-Mar-2015 2:12 PM	25-Mar-2015 8:23 PM	N
	5031905_20	NA	JW-SB/SG08	SO	JW-SB08-25	1503051-12	5032608_5C	1/1	12-Mar-2015 10:40 AM	20-Mar-2015 2:12 PM	25-Mar-2015 6:11 PM	N
	5031905_20	NA	JW-SB/SG08	SO	JW-SB08-25	5031905-MSD1	5032608_5C	1/1	12-Mar-2015 10:40 AM	20-Mar-2015 2:12 PM	25-Mar-2015 7:39 PM	SD
5C26001-CC	5031905_20	NA	JW-SB/SG07	SO	JW-SB07-15	1503051-05	5032608_5C	1/1	12-Mar-2015 8:40 AM	20-Mar-2015 2:12 PM	26-Mar-2015 4:34 PM	N
	5031905_20	NA	JW-SB/SG07	SO	JW-SB07-25	1503051-06	5032608_5C	1/1	12-Mar-2015 8:55 AM	20-Mar-2015 2:12 PM	26-Mar-2015 5:18 PM	N
	5031905_20	NA	JW-SB/SG07	SO	JW-SB07-5	1503051-03	5032608_5C	1/1	12-Mar-2015 8:30 AM	20-Mar-2015 2:12 PM	26-Mar-2015 3:05 PM	N
	5031905_20	NA	JW-SB/SG07	SO	JW-SB07-6	1503051-04	5032608_5C	1/1	12-Mar-2015 8:45 AM	20-Mar-2015 2:12 PM	26-Mar-2015 3:50 PM	FD
	5031905_20	NA	JW-SB/SG08	SO	JW-SB08-15	1503051-11	5032608_5C	1/1	12-Mar-2015 10:30 AM	20-Mar-2015 2:12 PM	26-Mar-2015 8:14 PM	N
	5031905_20	NA	JW-SB/SG08	SO	JW-SB08-2	1503051-09	5032608_5C	1/1	12-Mar-2015 10:10 AM	20-Mar-2015 2:12 PM	26-Mar-2015 6:47 PM	N
	5031905_20	NA	JW-SB/SG08	SO	JW-SB08-25	5031905-MS1	5032608_5C	1/1	12-Mar-2015 10:40 AM	20-Mar-2015 2:12 PM	26-Mar-2015 2:21 PM	MS
	5031905_20	NA	JW-SB/SG08	SO	JW-SB08-35	1503051-13	5032608_5C	1/1	12-Mar-2015 10:55 AM	20-Mar-2015 2:12 PM	26-Mar-2015 8:58 PM	N
	5031905_20	NA	JW-SB/SG08	SO	JW-SB08-5	1503051-10	5032608_5C	1/1	12-Mar-2015 10:15 AM	20-Mar-2015 2:12 PM	26-Mar-2015 7:31 PM	N
	5031905_20	NA	JW-SB/SG13	SO	JW-SB13-0.5	1503051-14	5032608_5C	1/1	12-Mar-2015 12:30 PM	20-Mar-2015 2:12 PM	26-Mar-2015 9:42 PM	N
	5031905_20	NA	LABQC	SQ	LABQC	5031905-BLK1	5032608_5C	1/1	20-Mar-2015 2:12 PM	20-Mar-2015 2:12 PM	26-Mar-2015 1:37 PM	LB
5C30004-CC	5031905_20	NA	JW-SB/SG07	SO	JW-SB07-35	1503051-07RE1	5032001_5C	1/1	12-Mar-2015 9:00 AM	20-Mar-2015 2:12 PM	30-Mar-2015 2:59 PM	N
	5031905_20	NA	JW-SB/SG13	SO	JW-SB13-16	1503051-18	5032001_5C	1/1	12-Mar-2015 12:50 PM	20-Mar-2015 2:12 PM	30-Mar-2015 6:38 PM	FD
	5031905_20	NA	JW-SB/SG13	SO	JW-SB13-2	1503051-15	5032001_5C	1/1	12-Mar-2015 12:35 PM	20-Mar-2015 2:12 PM	30-Mar-2015 4:27 PM	N
	5031905_20	NA	JW-SB/SG13	SO	JW-SB13-35	1503051-20	5032001_5C	1/1	12-Mar-2015 1:10 PM	20-Mar-2015 2:12 PM	30-Mar-2015 8:06 PM	N
	5031905_20	NA	JW-SB/SG13	SO	JW-SB13-5	1503051-16	5032001_5C	1/1	12-Mar-2015 12:40 PM	20-Mar-2015 2:12 PM	30-Mar-2015 5:11 PM	N
5C31007-CC	5031905_20	NA	JW-SB/SG08	SO	JW-SB08-0.5	1503051-08	5032001_5C	1/1	12-Mar-2015 10:05 AM	20-Mar-2015 2:12 PM	31-Mar-2015 6:22 PM	N
	5031905_20	NA	JW-SB/SG13	SO	JW-SB13-15	1503051-17	5032001_5C	1/1	12-Mar-2015 12:45 PM	20-Mar-2015 2:12 PM	31-Mar-2015 4:54 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SL9

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C31007-CC	5031905_20	NA	JW-SB/SG13	SO	JW-SB13-25	1503051-19	5032001_5C	1/1	12-Mar-2015 1:00 PM	20-Mar-2015 2:12 PM	31-Mar-2015 5:38 PM	N
	5031905_20	NA	LABQC	SQ	LABQC	5031905-BLK2	5032001_5C	1/1	20-Mar-2015 2:12 PM	20-Mar-2015 2:12 PM	31-Mar-2015 4:10 PM	LB

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
020g5C2501	5031906_20	NA	JW-SB/SG07	SO	JW-SB07-0.5	1503051-01	5032606_5C	1/1	12-Mar-2015 8:20 AM	25-Mar-2015 9:06 AM	26-Mar-2015 6:43 AM	N
	5031906_20	NA	JW-SB/SG07	SO	JW-SB07-15	1503051-05	5032606_5C	1/1	12-Mar-2015 8:40 AM	25-Mar-2015 9:06 AM	26-Mar-2015 8:45 AM	N
	5031906_20	NA	JW-SB/SG07	SO	JW-SB07-2	1503051-02	5032606_5C	1/1	12-Mar-2015 8:25 AM	25-Mar-2015 9:06 AM	26-Mar-2015 7:14 AM	N
	5031906_20	NA	JW-SB/SG07	SO	JW-SB07-25	1503051-06	5032606_5C	1/1	12-Mar-2015 8:55 AM	25-Mar-2015 9:06 AM	26-Mar-2015 9:16 AM	N
	5031906_20	NA	JW-SB/SG07	SO	JW-SB07-35	1503051-07	5032606_5C	1/1	12-Mar-2015 9:00 AM	25-Mar-2015 9:06 AM	26-Mar-2015 9:46 AM	N
	5031906_20	NA	JW-SB/SG07	SO	JW-SB07-5	1503051-03	5032606_5C	1/1	12-Mar-2015 8:30 AM	25-Mar-2015 9:06 AM	26-Mar-2015 7:44 AM	N
	5031906_20	NA	JW-SB/SG07	SO	JW-SB07-6	1503051-04	5032606_5C	1/1	12-Mar-2015 8:45 AM	25-Mar-2015 9:06 AM	26-Mar-2015 8:15 AM	FD
	5031906_20	NA	JW-SB/SG08	SO	JW-SB08-0.5	1503051-08	5032606_5C	1/1	12-Mar-2015 10:05 AM	25-Mar-2015 9:06 AM	26-Mar-2015 10:17 AM	N
	5031906_20	NA	JW-SB/SG08	SO	JW-SB08-15	1503051-11	5032606_5C	1/1	12-Mar-2015 10:30 AM	25-Mar-2015 9:06 AM	26-Mar-2015 11:45 AM	N
	5031906_20	NA	JW-SB/SG08	SO	JW-SB08-2	1503051-09	5032606_5C	1/1	12-Mar-2015 10:10 AM	25-Mar-2015 9:06 AM	26-Mar-2015 10:47 AM	N
	5031906_20	NA	JW-SB/SG08	SO	JW-SB08-25	5031906-MS1	5032606_5C	1/1	12-Mar-2015 10:40 AM	25-Mar-2015 9:06 AM	26-Mar-2015 5:42 AM	MS
	5031906_20	NA	JW-SB/SG08	SO	JW-SB08-25	5031906-MSD1	5032606_5C	1/1	12-Mar-2015 10:40 AM	25-Mar-2015 9:06 AM	26-Mar-2015 6:13 AM	SD
	5031906_20	NA	JW-SB/SG08	SO	JW-SB08-5	1503051-10	5032606_5C	1/1	12-Mar-2015 10:15 AM	25-Mar-2015 9:06 AM	26-Mar-2015 11:16 AM	N
	5031906_20	NA	LABQC	SQ	LABQC	5031906-BS1	5032606_5C	1/1	25-Mar-2015 9:06 AM	25-Mar-2015 9:06 AM	26-Mar-2015 5:12 AM	BS
	5031906_20	NA	LABQC	SQ	LABQC	5031906-BLK1	5032606_5C	1/1	25-Mar-2015 9:06 AM	25-Mar-2015 9:06 AM	26-Mar-2015 4:11 AM	LB
039g5C2501	5031906_20	NA	JW-SB/SG08	SO	JW-SB08-25	1503051-12	5032606_5C	1/1	12-Mar-2015 10:40 AM	25-Mar-2015 9:06 AM	26-Mar-2015 2:00 PM	N
	5031906_20	NA	JW-SB/SG08	SO	JW-SB08-35	1503051-13	5032606_5C	1/1	12-Mar-2015 10:55 AM	25-Mar-2015 9:06 AM	26-Mar-2015 2:28 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SL9

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
039g5C2501	5031906_20	NA	JW-SB/SG13	SO	JW-SB13-0.5	1503051-14	5032606_5C	1/1	12-Mar-2015 12:30 PM	25-Mar-2015 9:06 AM	26-Mar-2015 2:58 PM	N
	5031906_20	NA	JW-SB/SG13	SO	JW-SB13-15	1503051-17	5032606_5C	1/1	12-Mar-2015 12:45 PM	25-Mar-2015 9:06 AM	26-Mar-2015 4:26 PM	N
	5031906_20	NA	JW-SB/SG13	SO	JW-SB13-16	1503051-18	5032606_5C	1/1	12-Mar-2015 12:50 PM	25-Mar-2015 9:06 AM	26-Mar-2015 4:56 PM	FD
	5031906_20	NA	JW-SB/SG13	SO	JW-SB13-2	1503051-15	5032606_5C	1/1	12-Mar-2015 12:35 PM	25-Mar-2015 9:06 AM	26-Mar-2015 3:27 PM	N
	5031906_20	NA	JW-SB/SG13	SO	JW-SB13-25	1503051-19	5032606_5C	1/1	12-Mar-2015 1:00 PM	25-Mar-2015 9:06 AM	26-Mar-2015 5:26 PM	N
	5031906_20	NA	JW-SB/SG13	SO	JW-SB13-35	1503051-20	5032606_5C	1/1	12-Mar-2015 1:10 PM	25-Mar-2015 9:06 AM	26-Mar-2015 5:56 PM	N
	5031906_20	NA	JW-SB/SG13	SO	JW-SB13-5	1503051-16	5032606_5C	1/1	12-Mar-2015 12:40 PM	25-Mar-2015 9:06 AM	26-Mar-2015 3:57 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SL9

Field Batch Report

--No Records Found--

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CSVOL12 / SW3550B	Field Duplicate RPD	1503051-04 (N)	1 / 1.00	bis(2-Ethylhexyl) Phthalate	200	RPD	J/None	< 50	< 100	D5		RPD	
CSVOL12 / SW3550B	Surrogate	JW-SB07-25 (N)	1 / 1.00	2-Nitrophenol-d4	121	Percent	J/None	16 - 104	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB07-5 (N)	1 / 1.00	2-Nitrophenol-d4	114	Percent	J/None	16 - 104	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB07-5 (N)	1 / 1.00	Nitrobenzene-d5	114	Percent	J/None	16 - 103	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB08-25 (N)	1 / 1.00	Anthracene-d10	107	Percent	J/None	22 - 98	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB08-35 (N)	1 / 1.00	2-Nitrophenol-d4	136	Percent	J/None	16 - 104	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB08-35 (N)	1 / 1.00	Anthracene-d10	100	Percent	J/None	22 - 98	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB08-35 (N)	1 / 1.00	Nitrobenzene-d5	114	Percent	J/None	16 - 103	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB13-2 (N)	1 / 1.00	4-Chloroaniline-d4	0.643	Percent	J/UJ	1 - 145	< 155	S			

AUTOMATED DATA REVIEW SUMMARY for Y9SL9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB07-15	N	2-Nitrophenol	210	210 U	210 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB07-25	N	2-Nitrophenol	210	210 U	210 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB07-5	N	2-Nitrophenol	190	190 U	190 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB07-5	N	bis(2-Ethylhexyl) Phthalate	190	98.0 J	98.0 J	ug/kg	D5/TR
CSVOL12/NONE	SO	JW-SB07-6	FD	2-Nitrophenol	190	190 U	190 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB08-0.5	N	Acetophenone	190	48.0 J	48.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB08-15	N	2-Nitrophenol	210	210 U	210 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB08-2	N	2-Nitrophenol	180	180 U	180 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB08-35	N	2-Nitrophenol	220	220 U	220 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB08-5	N	2-Nitrophenol	190	190 U	190 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB13-2	N	3,3'-Dichlorobenzidine	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB13-2	N	4-Chloroaniline	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB13-2	N	Benzo(a)anthracene	180	36.0 J	36.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB13-2	N	Chrysene	180	46.0 J	46.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB13-2	N	Fluoranthene	180	77.0 J	77.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB13-2	N	Hexachlorocyclopentadiene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB13-2	N	Phenanthrene	180	43.0 J	43.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB13-5	N	2-Nitrophenol	190	190 U	190 UJ	ug/kg	C11
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
SW8082/NONE	SO	JW-SB07-0.5	N	PCB-1260 (Arochlor 1260)	35.0	34.0 J	34.0 J	ug/kg	TR

AUTOMATED DATA REVIEW SUMMARY for Y9SL9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB07-5	N	bis(2-Ethylhexyl) Phthalate	190	98.0 J	98.0 J	ug/kg	D5/TR
CSVOL12/NONE	SO	JW-SB08-0.5	N	Acetophenone	190	48.0 J	48.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB13-2	N	Benzo(a)anthracene	180	36.0 J	36.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB13-2	N	Chrysene	180	46.0 J	46.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB13-2	N	Fluoranthene	180	77.0 J	77.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB13-2	N	Phenanthrene	180	43.0 J	43.0 J	ug/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	JW-SB07-0.5	N	PCB-1260 (Arochlor 1260)	35.0	34.0 J	34.0 J	ug/kg	TR

AUTOMATED DATA REVIEW SUMMARY for Y9SL9

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: Liberty Analytical Corporation
Field Contractor: Gilbane Company, Walnut Creek, CA
Data Review Contractor: Gilbane

SDG: Y9SQ4, Certified - 4/13/2015 by wtse
QC Level: S2BVEM (Tier 1B)
Project Manager: Don Gruber

Data Reviewer: Tom Beer
Data Reviewer Title: Project Chemist
Date of Review Report: August 07, 2015
Second Reviewer:
Completion Date of Second Reviewer:

Samples Included in SDG Y9SQ4

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
CSVOL12/NONE	17	2
CVOL/NONE	17	2
SW8082/NONE	17	2

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by Liberty Analytical Corporation and were reported under sample delivery group (SDG) Y9SQ4. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 75 results (3.06%) out of the 2451 results (sample and field QC samples) reported are qualified based on review and 21 results (0.86%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

A COC date anomaly was noted but no data qualification appears warranted.

Data qualifiers were added for initial (G, C10) and continuing (C11) calibration anomalies, poor surrogate recoveries (S), and lab (D2) and field (D5) duplicate imprecision.

All 1,4-dioxane results by CVOL analysis were rejected but the results by SVOL are all acceptable. Two other VOCs results were rejected for very poor surrogate recoveries (S).

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.07 17:41:35 -07'00'

07-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C27006-CC	5031917_20	NA	JW-SB/SG12	SO	JW-SB12-15	1503062-04	5032001_5C	1/1	16-Mar-2015 9:05 AM	24-Mar-2015 2:52 PM	27-Mar-2015 5:18 PM	N
	5031917_20	NA	JW-SB/SG12	SO	JW-SB12-2	1503062-01	5032001_5C	1/1	16-Mar-2015 8:40 AM	24-Mar-2015 2:52 PM	27-Mar-2015 3:06 PM	N
	5031917_20	NA	JW-SB/SG12	SO	JW-SB12-25	1503062-05	5032001_5C	1/1	16-Mar-2015 9:10 AM	24-Mar-2015 2:52 PM	27-Mar-2015 6:02 PM	N
	5031917_20	NA	JW-SB/SG12	SO	JW-SB12-35	1503062-06	5032001_5C	1/1	16-Mar-2015 9:20 AM	24-Mar-2015 2:52 PM	27-Mar-2015 6:46 PM	N
	5031917_20	NA	JW-SB/SG12	SO	JW-SB12-5	1503062-02	5032001_5C	1/1	16-Mar-2015 8:45 AM	24-Mar-2015 2:52 PM	27-Mar-2015 3:50 PM	N
	5031917_20	NA	JW-SB/SG12	SO	JW-SB12-6	1503062-03	5032001_5C	1/1	16-Mar-2015 8:50 AM	24-Mar-2015 2:52 PM	27-Mar-2015 4:34 PM	FD
	5031917_20	NA	JW-SB/SG25	SO	JW-SB25-0.5	1503062-07	5032001_5C	1/1	16-Mar-2015 12:50 PM	24-Mar-2015 2:52 PM	28-Mar-2015 2:49 AM	N
	5031917_20	NA	JW-SB/SG25	SO	JW-SB25-15	1503062-10	5032001_5C	1/1	16-Mar-2015 1:15 PM	24-Mar-2015 2:52 PM	27-Mar-2015 7:30 PM	N
	5031917_20	NA	JW-SB/SG25	SO	JW-SB25-2	1503062-08	5032001_5C	1/1	16-Mar-2015 12:55 PM	24-Mar-2015 2:52 PM	28-Mar-2015 3:33 AM	N
	5031917_20	NA	JW-SB/SG25	SO	JW-SB25-25	1503062-11	5032001_5C	1/1	16-Mar-2015 1:25 PM	24-Mar-2015 2:52 PM	27-Mar-2015 8:14 PM	N
	5031917_20	NA	JW-SB/SG25	SO	JW-SB25-35	1503062-12	5032001_5C	1/1	16-Mar-2015 1:35 PM	24-Mar-2015 2:52 PM	27-Mar-2015 10:26 PM	N
	5031917_20	NA	JW-SB/SG25	SO	JW-SB25-5	5031917-MS1	5032001_5C	1/1	16-Mar-2015 1:00 PM	24-Mar-2015 2:52 PM	27-Mar-2015 1:38 PM	MS
	5031917_20	NA	JW-SB/SG25	SO	JW-SB25-5	1503062-09	5032001_5C	1/1	16-Mar-2015 1:00 PM	24-Mar-2015 2:52 PM	27-Mar-2015 12:54 PM	N
	5031917_20	NA	JW-SB/SG25	SO	JW-SB25-5	5031917-MSD1	5032001_5C	1/1	16-Mar-2015 1:00 PM	24-Mar-2015 2:52 PM	27-Mar-2015 2:22 PM	SD
	5031917_20	NA	JW-SB/SG26	SO	JW-SB26-0.5	1503062-13	5032001_5C	1/1	16-Mar-2015 10:35 AM	24-Mar-2015 2:52 PM	28-Mar-2015 4:16 AM	N
	5031917_20	NA	JW-SB/SG26	SO	JW-SB26-15	1503062-16	5032001_5C	1/1	16-Mar-2015 10:55 AM	24-Mar-2015 2:52 PM	27-Mar-2015 11:54 PM	N
	5031917_20	NA	JW-SB/SG26	SO	JW-SB26-16	1503062-17	5032001_5C	1/1	16-Mar-2015 11:00 AM	24-Mar-2015 2:52 PM	28-Mar-2015 12:38 AM	FD
	5031917_20	NA	JW-SB/SG26	SO	JW-SB26-2	1503062-14	5032001_5C	1/1	16-Mar-2015 10:40 AM	24-Mar-2015 2:52 PM	28-Mar-2015 5:00 AM	N
	5031917_20	NA	JW-SB/SG26	SO	JW-SB26-25	1503062-18	5032001_5C	1/1	16-Mar-2015 11:10 AM	24-Mar-2015 2:52 PM	28-Mar-2015 1:22 AM	N
	5031917_20	NA	JW-SB/SG26	SO	JW-SB26-35	1503062-19	5032001_5C	1/1	16-Mar-2015 11:20 AM	24-Mar-2015 2:52 PM	28-Mar-2015 2:05 AM	N
	5031917_20	NA	JW-SB/SG26	SO	JW-SB26-5	1503062-15	5032001_5C	1/1	16-Mar-2015 10:45 AM	24-Mar-2015 2:52 PM	27-Mar-2015 11:10 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C27006-CC	5031917_20	NA	LABQC	SQ	LABQC	5031917-BLK1	5032001_5C	1/1	24-Mar-2015 2:52 PM	24-Mar-2015 2:52 PM	27-Mar-2015 12:10 PM	LB

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C25003-CC	5032509_20	NA	JW-SB/SG12	SO	JW-SB12-2	1503062-01	5032503	1/1	16-Mar-2015 8:40 AM	25-Mar-2015 3:26 PM	25-Mar-2015 7:40 PM	N
	5032509_20	NA	LABQC	SQ	LABQC	5032509-BLK1	5032503	1/1	25-Mar-2015 3:26 PM	25-Mar-2015 3:26 PM	25-Mar-2015 3:26 PM	LB
	5032510_20	NA	JW-SB/SG26	SO	JW-SB26-15	1503062-16	5032503	1/1	16-Mar-2015 10:55 AM	26-Mar-2015 3:07 AM	26-Mar-2015 6:47 AM	N
	5032510_20	NA	LABQC	SQ	LABQC	5032510-BLK1	5032503	1/1	26-Mar-2015 3:07 AM	26-Mar-2015 3:07 AM	26-Mar-2015 3:07 AM	LB
	5032606_20	NA	JW-SB/SG12	SO	JW-SB12-15	1503062-04	5032503	1/1	16-Mar-2015 9:05 AM	26-Mar-2015 3:07 PM	26-Mar-2015 4:51 PM	N
	5032606_20	NA	JW-SB/SG12	SO	JW-SB12-25	1503062-05	5032503	1/1	16-Mar-2015 9:10 AM	26-Mar-2015 3:07 PM	26-Mar-2015 5:22 PM	N
	5032606_20	NA	JW-SB/SG12	SO	JW-SB12-35	1503062-06	5032503	1/1	16-Mar-2015 9:20 AM	26-Mar-2015 3:07 PM	26-Mar-2015 5:54 PM	N
	5032606_20	NA	JW-SB/SG12	SO	JW-SB12-5	1503062-02	5032503	1/1	16-Mar-2015 8:45 AM	26-Mar-2015 3:07 PM	26-Mar-2015 3:47 PM	N
	5032606_20	NA	JW-SB/SG12	SO	JW-SB12-6	1503062-03	5032503	1/1	16-Mar-2015 8:50 AM	26-Mar-2015 3:07 PM	26-Mar-2015 4:19 PM	FD
	5032606_20	NA	JW-SB/SG25	SO	JW-SB25-0.5	1503062-07	5032503	1/1	16-Mar-2015 12:50 PM	26-Mar-2015 3:07 PM	26-Mar-2015 6:26 PM	N
	5032606_20	NA	JW-SB/SG25	SO	JW-SB25-15	1503062-10	5032503	1/1	16-Mar-2015 1:15 PM	26-Mar-2015 3:07 PM	26-Mar-2015 9:04 PM	N
	5032606_20	NA	JW-SB/SG25	SO	JW-SB25-2	1503062-08	5032503	1/1	16-Mar-2015 12:55 PM	26-Mar-2015 3:07 PM	26-Mar-2015 6:57 PM	N
	5032606_20	NA	JW-SB/SG25	SO	JW-SB25-25	1503062-11	5032503	1/1	16-Mar-2015 1:25 PM	26-Mar-2015 3:07 PM	26-Mar-2015 9:36 PM	N
	5032606_20	NA	JW-SB/SG25	SO	JW-SB25-35	1503062-12	5032503	1/1	16-Mar-2015 1:35 PM	26-Mar-2015 3:07 PM	26-Mar-2015 10:08 PM	N
	5032606_20	NA	JW-SB/SG25	SO	JW-SB25-5	5032606-MS1	5032503	1/1	16-Mar-2015 1:00 PM	26-Mar-2015 3:07 PM	26-Mar-2015 8:01 PM	MS
	5032606_20	NA	JW-SB/SG25	SO	JW-SB25-5	1503062-09	5032503	1/1	16-Mar-2015 1:00 PM	26-Mar-2015 3:07 PM	26-Mar-2015 7:29 PM	N
	5032606_20	NA	JW-SB/SG25	SO	JW-SB25-5	5032606-MSD1	5032503	1/1	16-Mar-2015 1:00 PM	26-Mar-2015 3:07 PM	26-Mar-2015 8:33 PM	SD
	5032606_20	NA	JW-SB/SG26	SO	JW-SB26-0.5	1503062-13	5032503	1/1	16-Mar-2015 10:35 AM	26-Mar-2015 3:07 PM	26-Mar-2015 10:40 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C25003-CC	5032606_20	NA	JW-SB/SG26	SO	JW-SB26-2	1503062-14	5032503	1/1	16-Mar-2015 10:40 AM	26-Mar-2015 3:07 PM	26-Mar-2015 11:13 PM	N
	5032606_20	NA	JW-SB/SG26	SO	JW-SB26-5	1503062-15	5032503	1/1	16-Mar-2015 10:45 AM	26-Mar-2015 3:07 PM	26-Mar-2015 11:45 PM	N
	5032606_20	NA	LABQC	SQ	LABQC	5032606-BLK1	5032503	1/1	26-Mar-2015 3:07 PM	26-Mar-2015 3:07 PM	26-Mar-2015 3:07 PM	LB
5C27002-TU	5032702_20	NA	JW-SB/SG26	SO	JW-SB26-16	1503062-17	5032705	1/1	16-Mar-2015 11:00 AM	27-Mar-2015 1:40 PM	27-Mar-2015 3:07 PM	FD
	5032702_20	NA	JW-SB/SG26	SO	JW-SB26-25	1503062-18	5032705	1/1	16-Mar-2015 11:10 AM	27-Mar-2015 1:40 PM	27-Mar-2015 3:39 PM	N
	5032702_20	NA	JW-SB/SG26	SO	JW-SB26-35	1503062-19	5032705	1/1	16-Mar-2015 11:20 AM	27-Mar-2015 1:40 PM	27-Mar-2015 4:11 PM	N
	5032702_20	NA	LABQC	SQ	LABQC	5032702-BLK1	5032705	1/1	27-Mar-2015 1:40 PM	27-Mar-2015 1:40 PM	27-Mar-2015 1:40 PM	LB
	5032702_20	NA	LABQC	SQ	LABQC	1503062-20	5032705	1/1	27-Mar-2015 1:40 PM	27-Mar-2015 1:40 PM	27-Mar-2015 5:14 PM	LB

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
039g5C2501	5031918_20	NA	JW-SB/SG12	SO	JW-SB12-2	1503062-01	5032606_5C	1/1	16-Mar-2015 8:40 AM	25-Mar-2015 2:38 PM	26-Mar-2015 8:57 PM	N
	5031918_20	NA	JW-SB/SG12	SO	JW-SB12-5	1503062-02	5032606_5C	1/1	16-Mar-2015 8:45 AM	25-Mar-2015 2:38 PM	26-Mar-2015 9:27 PM	N
	5031918_20	NA	JW-SB/SG12	SO	JW-SB12-6	1503062-03	5032606_5C	1/1	16-Mar-2015 8:50 AM	25-Mar-2015 2:38 PM	26-Mar-2015 9:56 PM	FD
	5031918_20	NA	JW-SB/SG25	SO	JW-SB25-5	5031918-MS1	5032606_5C	1/1	16-Mar-2015 1:00 PM	25-Mar-2015 2:38 PM	26-Mar-2015 7:58 PM	MS
	5031918_20	NA	JW-SB/SG25	SO	JW-SB25-5	5031918-MSD1	5032606_5C	1/1	16-Mar-2015 1:00 PM	25-Mar-2015 2:38 PM	26-Mar-2015 8:28 PM	SD
	5031918_20	NA	LABQC	SQ	LABQC	5031918-BS1	5032606_5C	1/1	25-Mar-2015 2:38 PM	25-Mar-2015 2:38 PM	26-Mar-2015 7:28 PM	BS
	5031918_20	NA	LABQC	SQ	LABQC	5031918-BLK1	5032606_5C	1/1	25-Mar-2015 2:38 PM	25-Mar-2015 2:38 PM	26-Mar-2015 6:27 PM	LB
059g5C2501	5031918_20	NA	JW-SB/SG12	SO	JW-SB12-15	1503062-04	5032606_5C	1/1	16-Mar-2015 9:05 AM	25-Mar-2015 2:38 PM	26-Mar-2015 11:55 PM	N
	5031918_20	NA	JW-SB/SG12	SO	JW-SB12-25	1503062-05	5032606_5C	1/1	16-Mar-2015 9:10 AM	25-Mar-2015 2:38 PM	27-Mar-2015 12:25 AM	N
	5031918_20	NA	JW-SB/SG12	SO	JW-SB12-35	1503062-06	5032606_5C	1/1	16-Mar-2015 9:20 AM	25-Mar-2015 2:38 PM	27-Mar-2015 12:54 AM	N
	5031918_20	NA	JW-SB/SG25	SO	JW-SB25-0.5	1503062-07	5032606_5C	1/1	16-Mar-2015 12:50 PM	25-Mar-2015 2:38 PM	27-Mar-2015 1:24 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
059g5C2501	5031918_20	NA	JW-SB/SG25	SO	JW-SB25-15	1503062-10	5032606_5C	1/1	16-Mar-2015 1:15 PM	25-Mar-2015 2:38 PM	27-Mar-2015 2:53 AM	N
	5031918_20	NA	JW-SB/SG25	SO	JW-SB25-2	1503062-08	5032606_5C	1/1	16-Mar-2015 12:55 PM	25-Mar-2015 2:38 PM	27-Mar-2015 1:54 AM	N
	5031918_20	NA	JW-SB/SG25	SO	JW-SB25-25	1503062-11	5032606_5C	1/1	16-Mar-2015 1:25 PM	25-Mar-2015 2:38 PM	27-Mar-2015 3:22 AM	N
	5031918_20	NA	JW-SB/SG25	SO	JW-SB25-35	1503062-12	5032606_5C	1/1	16-Mar-2015 1:35 PM	25-Mar-2015 2:38 PM	27-Mar-2015 3:52 AM	N
	5031918_20	NA	JW-SB/SG25	SO	JW-SB25-5	1503062-09	5032606_5C	1/1	16-Mar-2015 1:00 PM	25-Mar-2015 2:38 PM	27-Mar-2015 2:23 AM	N
	5031918_20	NA	JW-SB/SG26	SO	JW-SB26-0.5	1503062-13	5032606_5C	1/1	16-Mar-2015 10:35 AM	25-Mar-2015 2:38 PM	27-Mar-2015 4:21 AM	N
	5031918_20	NA	JW-SB/SG26	SO	JW-SB26-15	1503062-16	5032606_5C	1/1	16-Mar-2015 10:55 AM	25-Mar-2015 2:38 PM	27-Mar-2015 5:50 AM	N
	5031918_20	NA	JW-SB/SG26	SO	JW-SB26-16	1503062-17	5032606_5C	1/1	16-Mar-2015 11:00 AM	25-Mar-2015 2:38 PM	27-Mar-2015 6:20 AM	FD
	5031918_20	NA	JW-SB/SG26	SO	JW-SB26-2	1503062-14	5032606_5C	1/1	16-Mar-2015 10:40 AM	25-Mar-2015 2:38 PM	27-Mar-2015 4:51 AM	N
	5031918_20	NA	JW-SB/SG26	SO	JW-SB26-25	1503062-18	5032606_5C	1/1	16-Mar-2015 11:10 AM	25-Mar-2015 2:38 PM	27-Mar-2015 6:50 AM	N
	5031918_20	NA	JW-SB/SG26	SO	JW-SB26-35	1503062-19	5032606_5C	1/1	16-Mar-2015 11:20 AM	25-Mar-2015 2:38 PM	27-Mar-2015 7:20 AM	N
	5031918_20	NA	JW-SB/SG26	SO	JW-SB26-5	1503062-15	5032606_5C	1/1	16-Mar-2015 10:45 AM	25-Mar-2015 2:38 PM	27-Mar-2015 5:21 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CSVOL12 / SW3550B	Field Duplicate RPD	1503062-03 (N)	1 / 1.00	bis(2-Ethylhexyl) Phthalate	200	RPD	J/None	< 50	< 100	D5		RPD	
CSVOL12 / SW3550B	MS RPD	5031917-MSD1 (SD)	1 / 1.00	Acetophenone	200	RPD	J/UJ	< 50	< 100	D2		RPD	
CVOL / METHOD	Blank	1503062-20 (LB)	1 / 1.00	Acetone	3.40	ug/kg	U/None	< 3	< 10	B1		2	6.80
CVOL / METHOD	Blank	5032509-BLK1 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.460	ug/kg	U/None	< 0.42	< 5	B1		1	0.460
CVOL / METHOD	Blank	5032606-BLK1 (LB)	1 / 1.00	Methylene Chloride	0.670	ug/kg	U/None	< 0.63	< 5	B1		2	1.34
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	1,1,1-Trichloroethane	0.720	ug/kg	U/None	< 0.39	< 5	B1		1	0.720
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	1,1,2-Trichloroethane	0.680	ug/kg	U/None	< 0.33	< 5	B1		1	0.680
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	1,1-Dichloroethane	0.650	ug/kg	U/None	< 0.45	< 5	B1		1	0.650
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	1.70	ug/kg	U/None	< 0.42	< 5	B1		1	1.70
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	1,2,4-Trichlorobenzene	1.60	ug/kg	U/None	< 0.53	< 5	B1		1	1.60
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	1,2-Dichloroethane	0.710	ug/kg	U/None	< 0.35	< 5	B1		1	0.710
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	Bromodichloromethane	0.640	ug/kg	U/None	< 0.33	< 5	B1		1	0.640
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	Carbon Disulfide	0.790	ug/kg	U/None	< 0.4	< 5	B1		1	0.790
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	Carbon Tetrachloride	0.790	ug/kg	U/None	< 0.4	< 5	B1		1	0.790
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	cis-1,2-Dichloroethylene	0.660	ug/kg	U/None	< 0.5	< 5	B1		1	0.660
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	Cyclohexane	0.800	ug/kg	U/None	< 0.36	< 5	B1		1	0.800
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	Ethylbenzene	0.610	ug/kg	U/None	< 0.41	< 5	B1		1	0.610
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	Isopropylbenzene (Cumene)	0.590	ug/kg	U/None	< 0.36	< 5	B1		1	0.590
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	m,p-Xylene	0.630	ug/kg	U/None	< 0.37	< 5	B1		1	0.630
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	Methylene Chloride	1.10	ug/kg	U/None	< 0.63	< 5	B1		2	2.20
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	Styrene	0.610	ug/kg	U/None	< 0.31	< 5	B1		1	0.610
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	tert-Butyl Methyl Ether (MTBE)	0.590	ug/kg	U/None	< 0.25	< 5	B1		1	0.590

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	Toluene	0.810	ug/kg	U/None	< 0.42	< 5	B1		1	0.810
CVOL / METHOD	Blank	5032702-BLK1 (LB)	1 / 1.00	Trichloroethene (TCE)	0.740	ug/kg	U/None	< 0.39	< 5	B1		1	0.740
CVOL / METHOD	Field Duplicate RPD	1503062-17 (N)	1 / 1.00	Chloroform	200	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	Field Duplicate RPD	1503062-17 (N)	1 / 1.00	Methylene Chloride	200	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	Surrogate	JW-SB25-5 (MS)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB25-5 (MS)	1 / 1.00	1,4-Dioxane-d8	55.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB25-5 (SD)	1 / 1.00	1,4-Dioxane-d8	64.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB25-5 (MS)	1 / 1.00	2-Butanone-d5	65.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB25-5 (MS)	1 / 1.00	2-Hexanone-d5	60.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB25-5 (SD)	1 / 1.00	2-Hexanone-d5	67.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB26-0.5 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	4.20	PERCENT	J/R	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB26-0.5 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB26-0.5 (N)	1 / 1.00	Chloroform-d	46.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB26-15 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	38.0	PERCENT	J/UJ	70 - 130	20 - 140	S			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB12-2	N	Benzo(a)anthracene	180	31.0 J	31.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB12-2	N	Benzo(a)pyrene	180	36.0 J	36.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB12-2	N	Chrysene	180	36.0 J	36.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB12-2	N	Fluoranthene	180	57.0 J	57.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB12-5	N	Acetophenone	190	43.0 J	43.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB12-5	N	bis(2-Ethylhexyl) Phthalate	190	110 J	110 J	ug/kg	D5/TR
CSVOL12/NONE	SO	JW-SB12-6	FD	Acetophenone	190	43.0 J	43.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-2	N	Benzo(a)anthracene	180	29.0 J	29.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-2	N	Chrysene	180	41.0 J	41.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-2	N	Fluoranthene	180	60.0 J	60.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-35	N	Acetophenone	180	96.0 J	96.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Acetophenone	190	190 U	190 UJ	ug/kg	D2
CSVOL12/NONE	SO	JW-SB25-5	N	Benzo(a)anthracene	190	58.0 J	58.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Benzo(a)pyrene	190	56.0 J	56.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Benzo(b)fluoranthene	190	71.0 J	71.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Chrysene	190	54.0 J	54.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Fluoranthene	190	100 J	100 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Indeno(1,2,3-c,d)pyrene	190	36.0 J	36.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Phenanthrene	190	81.0 J	81.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-0.5	N	Acenaphthene	190	32.0 J	32.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-0.5	N	Anthracene	190	94.0 J	94.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-0.5	N	Carbazole	190	65.0 J	65.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-0.5	N	Dibenz(a,h)anthracene	190	65.0 J	65.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-0.5	N	Fluorene	190	38.0 J	38.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Benzo(a)anthracene	190	71.0 J	71.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Benzo(a)pyrene	190	68.0 J	68.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Benzo(b)fluoranthene	190	88.0 J	88.0 J	ug/kg	TR

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB26-2	N	Chrysene	190	87.0 J	87.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Fluoranthene	190	150 J	150 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Indeno(1,2,3-c,d)pyrene	190	46.0 J	46.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Phenanthrene	190	120 J	120 J	ug/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB12-15	N	1,2,4-Trichlorobenzene	5.7	5.7 U	5.7 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB12-15	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB12-15	N	Tetrachloroethene (PCE)	5.7	5.7 U	5.7 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB12-2	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB12-2	N	Methylene Chloride	5.0	0.68 J	0.68 J	ug/kg	TR
CVOL/NONE	SO	JW-SB12-25	N	1,2,4-Trichlorobenzene	5.2	5.2 U	5.2 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB12-25	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB12-25	N	Tetrachloroethene (PCE)	5.2	5.2 U	5.2 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB12-35	N	1,4-Dioxane (p-Dioxane)	93.0	93.0 U	93.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB12-5	N	1,2,4-Trichlorobenzene	5.1	5.1 U	5.1 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB12-5	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB12-5	N	Tetrachloroethene (PCE)	5.1	5.1 U	5.1 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB12-5	N	Toluene	5.1	0.46 J	0.46 J	ug/kg	TR
CVOL/NONE	SO	JW-SB12-6	FD	1,2,4-Trichlorobenzene	4.6	4.6 U	4.6 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB12-6	FD	1,4-Dioxane (p-Dioxane)	92.0	92.0 U	92.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB12-6	FD	Tetrachloroethene (PCE)	4.6	4.6 U	4.6 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB12-6	FD	Toluene	4.6	0.49 J	0.49 J	ug/kg	TR
CVOL/NONE	SO	JW-SB25-0.5	N	1,2,3-Trichlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB25-0.5	N	1,2,4-Trichlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB25-0.5	N	1,2-Dichlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB25-0.5	N	1,3-Dichlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB25-0.5	N	1,4-Dichlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB25-0.5	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-0.5	N	Chlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB25-0.5	N	Tetrachloroethene (PCE)	5.4	5.4 U	5.4 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB25-0.5	N	Toluene	5.4	0.54 J	0.54 J	ug/kg	TR
CVOL/NONE	SO	JW-SB25-15	N	1,2,4-Trichlorobenzene	4.6	4.6 U	4.6 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB25-15	N	1,4-Dioxane (p-Dioxane)	93.0	93.0 U	93.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-15	N	Tetrachloroethene (PCE)	4.6	4.6 U	4.6 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB25-15	N	Toluene	4.6	0.47 J	0.47 J	ug/kg	TR
CVOL/NONE	SO	JW-SB25-2	N	1,2,4-Trichlorobenzene	5.8	5.8 U	5.8 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB25-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	120 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-2	N	Tetrachloroethene (PCE)	5.8	5.8 U	5.8 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB25-2	N	Toluene	5.8	0.63 J	0.63 J	ug/kg	TR
CVOL/NONE	SO	JW-SB25-25	N	1,2,4-Trichlorobenzene	5.1	5.1 U	5.1 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB25-25	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-25	N	Tetrachloroethene (PCE)	5.1	5.1 U	5.1 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB25-35	N	1,2,4-Trichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB25-35	N	1,4-Dioxane (p-Dioxane)	98.0	98.0 U	98.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-35	N	Tetrachloroethene (PCE)	4.9	4.9 U	4.9 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB25-5	N	1,2,4-Trichlorobenzene	5.5	5.5 U	5.5 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB25-5	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-5	N	Tetrachloroethene (PCE)	5.5	5.5 U	5.5 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB25-5	N	Toluene	5.5	0.54 J	0.54 J	ug/kg	TR
CVOL/NONE	SO	JW-SB26-0.5	N	1,1,2,2-Tetrachloroethane	4.8	4.8 U	4.8 R	ug/kg	S
CVOL/NONE	SO	JW-SB26-0.5	N	1,1-Dichloroethane	4.8	4.8 U	4.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB26-0.5	N	1,2,4-Trichlorobenzene	4.8	4.8 U	4.8 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-0.5	N	1,2-Dibromo-3-chloropropane	4.8	4.8 U	4.8 R	ug/kg	S
CVOL/NONE	SO	JW-SB26-0.5	N	1,4-Dioxane (p-Dioxane)	95.0	95.0 U	95.0 R	ug/kg	G/C10

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB26-0.5	N	Bromochloromethane	4.8	4.8 U	4.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB26-0.5	N	Bromoform	4.8	4.8 U	4.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB26-0.5	N	Chloroform	4.8	24.0	24.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB26-0.5	N	Dibromochloromethane	4.8	4.8 U	4.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB26-0.5	N	Tetrachloroethene (PCE)	4.8	4.8 U	4.8 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-0.5	N	Toluene	4.8	0.46 J	0.46 J	ug/kg	TR
CVOL/NONE	SO	JW-SB26-0.5	N	Trichloroethene (TCE)	4.8	2.1 J	2.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB26-15	N	1,1,2,2-Tetrachloroethane	6.1	6.1 U	6.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB26-15	N	1,1-Dichloroethane	6.1	6.1 U	6.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB26-15	N	1,2,4-Trichlorobenzene	6.1	6.1 U	6.1 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-15	N	1,2-Dibromo-3-chloropropane	6.1	6.1 U	6.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB26-15	N	1,4-Dioxane (p-Dioxane)	120	120 U	120 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-15	N	Bromochloromethane	6.1	6.1 U	6.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB26-15	N	Bromoform	6.1	6.1 U	6.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB26-15	N	Chloroform	6.1	16.0	16.0 J	ug/kg	D5/S
CVOL/NONE	SO	JW-SB26-15	N	Dibromochloromethane	6.1	6.1 U	6.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB26-15	N	Methylene Chloride	6.1	2.7 J	2.7 J	ug/kg	D5/TR
CVOL/NONE	SO	JW-SB26-15	N	Tetrachloroethene (PCE)	6.1	6.1 U	6.1 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-16	FD	1,2,4-Trichlorobenzene	4.7	4.7 JB	4.7 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-16	FD	1,4-Dioxane (p-Dioxane)	94.0	94.0 U	94.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-16	FD	Tetrachloroethene (PCE)	4.7	4.7 U	4.7 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-2	N	1,2,4-Trichlorobenzene	6.2	6.2 U	6.2 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	120 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-2	N	Tetrachloroethene (PCE)	6.2	6.2 U	6.2 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-25	N	1,2,4-Trichlorobenzene	5.1	5.1 U	5.1 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-25	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-25	N	Tetrachloroethene (PCE)	5.1	5.1 U	5.1 UJ	ug/kg	C11

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB26-35	N	1,2,4-Trichlorobenzene	5.2	5.2 U	5.2 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-35	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-35	N	Tetrachloroethene (PCE)	5.2	5.2 U	5.2 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-5	N	1,2,4-Trichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	C11
CVOL/NONE	SO	JW-SB26-5	N	1,4-Dioxane (p-Dioxane)	99.0	99.0 U	99.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-5	N	Tetrachloroethene (PCE)	4.9	4.9 U	4.9 UJ	ug/kg	C11

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	JW-SB26-0.5	N	PCB-1260 (Arochlor 1260)	36.0	35.0 J	35.0 J	ug/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB12-2	N	Benzo(a)anthracene	180	31.0 J	31.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB12-2	N	Benzo(a)pyrene	180	36.0 J	36.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB12-2	N	Chrysene	180	36.0 J	36.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB12-2	N	Fluoranthene	180	57.0 J	57.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB12-5	N	Acetophenone	190	43.0 J	43.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB12-5	N	bis(2-Ethylhexyl) Phthalate	190	110 J	110 J	ug/kg	D5/TR
CSVOL12/NONE	SO	JW-SB12-6	FD	Acetophenone	190	43.0 J	43.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-2	N	Benzo(a)anthracene	180	29.0 J	29.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-2	N	Chrysene	180	41.0 J	41.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-2	N	Fluoranthene	180	60.0 J	60.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-35	N	Acetophenone	180	96.0 J	96.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Benzo(a)anthracene	190	58.0 J	58.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Benzo(a)pyrene	190	56.0 J	56.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Benzo(b)fluoranthene	190	71.0 J	71.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Chrysene	190	54.0 J	54.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Fluoranthene	190	100 J	100 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Indeno(1,2,3-c,d)pyrene	190	36.0 J	36.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB25-5	N	Phenanthrene	190	81.0 J	81.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-0.5	N	Acenaphthene	190	32.0 J	32.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-0.5	N	Anthracene	190	94.0 J	94.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-0.5	N	Benzo(a)anthracene	190	410	410	ug/kg	
CSVOL12/NONE	SO	JW-SB26-0.5	N	Benzo(a)pyrene	190	440	440	ug/kg	
CSVOL12/NONE	SO	JW-SB26-0.5	N	Benzo(b)fluoranthene	190	600	600	ug/kg	
CSVOL12/NONE	SO	JW-SB26-0.5	N	Benzo(g,h,i)perylene	190	280	280	ug/kg	
CSVOL12/NONE	SO	JW-SB26-0.5	N	Benzo(k)fluoranthene	190	350	350	ug/kg	
CSVOL12/NONE	SO	JW-SB26-0.5	N	Carbazole	190	65.0 J	65.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-0.5	N	Chrysene	190	560	560	ug/kg	

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB26-0.5	N	Dibenz(a,h)anthracene	190	65.0 J	65.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-0.5	N	Fluorene	190	38.0 J	38.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-0.5	N	Fluoranthene	190	1000	1000	ug/kg	
CSVOL12/NONE	SO	JW-SB26-0.5	N	Indeno(1,2,3-c,d)pyrene	190	330	330	ug/kg	
CSVOL12/NONE	SO	JW-SB26-0.5	N	Phenanthrene	190	710	710	ug/kg	
CSVOL12/NONE	SO	JW-SB26-0.5	N	Pyrene	190	900	900	ug/kg	
CSVOL12/NONE	SO	JW-SB26-2	N	Benzo(a)anthracene	190	71.0 J	71.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Benzo(a)pyrene	190	68.0 J	68.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Benzo(b)fluoranthene	190	88.0 J	88.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Chrysene	190	87.0 J	87.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Fluoranthene	190	150 J	150 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Indeno(1,2,3-c,d)pyrene	190	46.0 J	46.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB26-2	N	Phenanthrene	190	120 J	120 J	ug/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB12-2	N	Methylene Chloride	5.0	0.68 J	0.68 J	ug/kg	TR
CVOL/NONE	SO	JW-SB12-5	N	Toluene	5.1	0.46 J	0.46 J	ug/kg	TR
CVOL/NONE	SO	JW-SB12-6	FD	Toluene	4.6	0.49 J	0.49 J	ug/kg	TR
CVOL/NONE	SO	JW-SB25-0.5	N	Toluene	5.4	0.54 J	0.54 J	ug/kg	TR
CVOL/NONE	SO	JW-SB25-15	N	Toluene	4.6	0.47 J	0.47 J	ug/kg	TR
CVOL/NONE	SO	JW-SB25-2	N	Toluene	5.8	0.63 J	0.63 J	ug/kg	TR
CVOL/NONE	SO	JW-SB25-5	N	Toluene	5.5	0.54 J	0.54 J	ug/kg	TR
CVOL/NONE	SO	JW-SB26-0.5	N	Toluene	4.8	0.46 J	0.46 J	ug/kg	TR
CVOL/NONE	SO	JW-SB26-0.5	N	Trichloroethene (TCE)	4.8	2.1 J	2.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB26-0.5	N	Chloroform	4.8	24.0	24.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB26-15	N	Methylene Chloride	6.1	2.7 J	2.7 J	ug/kg	D5/TR

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB26-15	N	Chloroform	6.1	16.0	16.0 J	ug/kg	D5/S

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	JW-SB26-0.5	N	PCB-1260 (Arochlor 1260)	36.0	35.0 J	35.0 J	ug/kg	TR

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB12-15	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB12-2	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB12-25	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB12-35	N	1,4-Dioxane (p-Dioxane)	93.0	93.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB12-5	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB12-6	FD	1,4-Dioxane (p-Dioxane)	92.0	92.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-0.5	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-15	N	1,4-Dioxane (p-Dioxane)	93.0	93.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-25	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-35	N	1,4-Dioxane (p-Dioxane)	98.0	98.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB25-5	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-0.5	N	1,2-Dibromo-3-chloropropane	4.8	4.8 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB26-0.5	N	1,4-Dioxane (p-Dioxane)	95.0	95.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-0.5	N	1,1,2,2-Tetrachloroethane	4.8	4.8 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB26-15	N	1,4-Dioxane (p-Dioxane)	120	120 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-16	FD	1,4-Dioxane (p-Dioxane)	94.0	94.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-25	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-35	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB26-5	N	1,4-Dioxane (p-Dioxane)	99.0	99.0 U	R	ug/kg	G/C10

AUTOMATED DATA REVIEW SUMMARY for Y9SQ4

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: Liberty Analytical Corporation
Field Contractor: Gilbane Company, Walnut Creek, CA
Data Review Contractor: Gilbane

SDG: Y9SS9, Certified - 4/14/2015 by wtse
QC Level: S2BVEM (Tier 1B)
Project Manager: Don Gruber

Data Reviewer: Tom Beer
Data Reviewer Title: Project Chemist
Date of Review Report: August 07, 2015
Second Reviewer:
Completion Date of Second Reviewer:

Samples Included in SDG Y9SS9

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
CSVOL12/NONE	19	1
CVOL/NONE	19	1
SW8082/NONE	19	1

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by Liberty Analytical Corporation and were reported under sample delivery group (SDG) Y9SS9. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 499 results (19.34%) out of the 2580 results (sample and field QC samples) reported are qualified based on review and 59 results (2.29%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

Several COC date and sample ID anomalies were noted but no data qualification appears warranted.

Data qualifiers were added for holding time exceedances (H1), initial (G, C10) and continuing (C11) calibration anomalies, poor surrogate (S) and LCS (L) recoveries, and lab (D2) and field (D5) duplicate imprecision.

Several SVOCs and numerous VOCs results were rejected for very poor surrogate recoveries (S).

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 10:15:47 -07'00'

07-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C24007-CC	5031612_20	NA	LABQC	SQ	LABQC	5031612-BLK1	5032001_5C	1/1	17-Mar-2015 10:54 AM	17-Mar-2015 10:54 AM	24-Mar-2015 7:18 PM	LB
5C25005-CC	5031612_20	NA	JW-SB/SG12	SO	JW-SB12-0.5	1503041-21	5032001_5C	1/1	16-Mar-2015 8:35 AM	17-Mar-2015 10:54 AM	26-Mar-2015 12:36 AM	N
	5031612_20	NA	JW-SB/SG14	SO	JW-SB14-0.5	1503041-09	5032001_5C	1/1	13-Mar-2015 8:40 AM	17-Mar-2015 10:54 AM	25-Mar-2015 3:52 PM	N
	5031612_20	NA	JW-SB/SG14	SO	JW-SB14-15	1503041-12	5032001_5C	1/1	13-Mar-2015 9:40 AM	17-Mar-2015 10:54 AM	25-Mar-2015 5:20 PM	N
	5031612_20	NA	JW-SB/SG14	SO	JW-SB14-2	5031612-MS1	5032001_5C	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 10:54 AM	25-Mar-2015 11:31 AM	MS
	5031612_20	NA	JW-SB/SG14	SO	JW-SB14-2	1503041-10	5032001_5C	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 10:54 AM	25-Mar-2015 10:47 AM	N
	5031612_20	NA	JW-SB/SG14	SO	JW-SB14-2	5031612-MSD1	5032001_5C	1/1	13-Mar-2015 9:20 AM	17-Mar-2015 10:54 AM	25-Mar-2015 12:14 PM	SD
	5031612_20	NA	JW-SB/SG14	SO	JW-SB14-25	1503041-13	5032001_5C	1/1	13-Mar-2015 9:45 AM	17-Mar-2015 10:54 AM	25-Mar-2015 6:04 PM	N
	5031612_20	NA	JW-SB/SG14	SO	JW-SB14-35	1503041-14	5032001_5C	1/1	13-Mar-2015 10:00 AM	17-Mar-2015 10:54 AM	25-Mar-2015 6:47 PM	N
	5031612_20	NA	JW-SB/SG14	SO	JW-SB14-5	1503041-11	5032001_5C	1/1	13-Mar-2015 9:30 AM	17-Mar-2015 10:54 AM	25-Mar-2015 4:36 PM	N
	5031612_20	NA	JW-SB/SG15	SO	JW-SB15-35	1503041-20	5032001_5C	1/1	13-Mar-2015 11:20 AM	17-Mar-2015 10:54 AM	25-Mar-2015 11:52 PM	N
	5031612_20	NA	JW-SB/SG16	SO	JW-SB16-15	1503041-05	5032001_5C	1/1	10-Mar-2015 11:15 AM	17-Mar-2015 10:54 AM	25-Mar-2015 1:41 PM	N
	5031612_20	NA	JW-SB/SG16	SO	JW-SB16-2	1503041-04	5032001_5C	1/1	10-Mar-2015 10:15 AM	17-Mar-2015 10:54 AM	25-Mar-2015 12:58 PM	N
	5031612_20	NA	JW-SB/SG16	SO	JW-SB16-25	1503041-06	5032001_5C	1/1	10-Mar-2015 11:20 AM	17-Mar-2015 10:54 AM	25-Mar-2015 2:25 PM	N
	5031612_20	NA	JW-SB/SG16	SO	JW-SB16-35	1503041-07	5032001_5C	1/1	10-Mar-2015 11:30 AM	17-Mar-2015 10:54 AM	25-Mar-2015 3:09 PM	N
5C26003-CC	5031612_20	NA	JW-SB/SG15	SO	JW-SB15-0.5	1503041-15	5032001_5C	1/10	13-Mar-2015 10:50 AM	17-Mar-2015 10:54 AM	26-Mar-2015 7:53 PM	N
	5031612_20	NA	JW-SB/SG15	SO	JW-SB15-15	1503041-18	5032001_5C	1/1	13-Mar-2015 11:10 AM	17-Mar-2015 10:54 AM	26-Mar-2015 1:22 PM	N
	5031612_20	NA	JW-SB/SG15	SO	JW-SB15-2	1503041-16	5032001_5C	1/1	13-Mar-2015 10:55 AM	17-Mar-2015 10:54 AM	26-Mar-2015 11:54 AM	N
	5031612_20	NA	JW-SB/SG15	SO	JW-SB15-25	1503041-19	5032001_5C	1/1	13-Mar-2015 11:15 AM	17-Mar-2015 10:54 AM	26-Mar-2015 4:16 PM	N
	5031612_20	NA	JW-SB/SG15	SO	JW-SB15-5	1503041-17	5032001_5C	1/1	13-Mar-2015 11:00 AM	17-Mar-2015 10:54 AM	26-Mar-2015 12:38 PM	N
	5031612_20	NA	JW-SB/SG16	SO	JW-SB16-0.5	1503041-01	5032001_5C	1/10	10-Mar-2015 10:00 AM	17-Mar-2015 10:54 AM	26-Mar-2015 6:26 PM	N
	5031612_20	NA	JW-SB/SG16	SO	JW-SB16-0.6	1503041-02	5032001_5C	1/10	10-Mar-2015 10:05 AM	17-Mar-2015 10:54 AM	26-Mar-2015 7:10 PM	FD

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C26003-CC	5031612_20	NA	JW-SB/SG16	SO	JW-SB16-5	1503041-03	5032001_5C	1/1	10-Mar-2015 10:10 AM	17-Mar-2015 10:54 AM	26-Mar-2015 8:37 PM	N

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C23002-CC	5032306_20	NA	LABQC	SQ	LABQC	5032306-BLK1	5032406	1/1	23-Mar-2015 10:50 PM	23-Mar-2015 10:50 PM	23-Mar-2015 10:50 PM	LB
5C23002-TU	5032302_20	NA	JW-SB/SG14	SO	JW-SB14-0.5	1503041-09	5032406	1/1	13-Mar-2015 8:40 AM	23-Mar-2015 1:48 PM	23-Mar-2015 6:35 PM	N
	5032302_20	NA	JW-SB/SG14	SO	JW-SB14-2	5032302-MS1	5032406	1/1	13-Mar-2015 9:20 AM	23-Mar-2015 1:48 PM	23-Mar-2015 7:38 PM	MS
	5032302_20	NA	JW-SB/SG14	SO	JW-SB14-2	1503041-10	5032406	1/1	13-Mar-2015 9:20 AM	23-Mar-2015 1:48 PM	23-Mar-2015 7:07 PM	N
	5032302_20	NA	JW-SB/SG14	SO	JW-SB14-2	5032302-MSD1	5032406	1/1	13-Mar-2015 9:20 AM	23-Mar-2015 1:48 PM	23-Mar-2015 8:10 PM	SD
	5032302_20	NA	JW-SB/SG14	SO	JW-SB14-5	1503041-11	5032406	1/1	13-Mar-2015 9:30 AM	23-Mar-2015 1:48 PM	23-Mar-2015 8:42 PM	N
	5032302_20	NA	JW-SB/SG16	SO	JW-SB16-0.6	1503041-02	5032406	1/1	10-Mar-2015 10:05 AM	23-Mar-2015 1:48 PM	23-Mar-2015 3:24 PM	FD
	5032302_20	NA	JW-SB/SG16	SO	JW-SB16-15	1503041-05	5032406	1/1	10-Mar-2015 11:15 AM	23-Mar-2015 1:48 PM	23-Mar-2015 4:59 PM	N
	5032302_20	NA	JW-SB/SG16	SO	JW-SB16-2	1503041-04	5032406	1/1	10-Mar-2015 10:15 AM	23-Mar-2015 1:48 PM	23-Mar-2015 4:28 PM	N
	5032302_20	NA	JW-SB/SG16	SO	JW-SB16-25	1503041-06	5032406	1/1	10-Mar-2015 11:20 AM	23-Mar-2015 1:48 PM	23-Mar-2015 5:31 PM	N
	5032302_20	NA	JW-SB/SG16	SO	JW-SB16-35	1503041-07	5032406	1/1	10-Mar-2015 11:30 AM	23-Mar-2015 1:48 PM	23-Mar-2015 6:03 PM	N
	5032302_20	NA	JW-SB/SG16	SO	JW-SB16-5	1503041-03	5032406	1/1	10-Mar-2015 10:10 AM	23-Mar-2015 1:48 PM	23-Mar-2015 3:56 PM	N
	5032302_20	NA	LABQC	SQ	LABQC	5032302-BLK1	5032406	1/1	23-Mar-2015 1:48 PM	23-Mar-2015 1:48 PM	23-Mar-2015 1:48 PM	LB
5C24001-CC	5032402_20	NA	JW-SB/SG14	SO	JW-SB14-15	1503041-12	5032406	1/1	13-Mar-2015 9:40 AM	24-Mar-2015 1:16 PM	24-Mar-2015 4:59 PM	N
	5032402_20	NA	JW-SB/SG14	SO	JW-SB14-25	1503041-13	5032406	1/1	13-Mar-2015 9:45 AM	24-Mar-2015 1:16 PM	24-Mar-2015 5:30 PM	N
	5032402_20	NA	JW-SB/SG14	SO	JW-SB14-35	1503041-14	5032406	1/1	13-Mar-2015 10:00 AM	24-Mar-2015 1:16 PM	24-Mar-2015 6:02 PM	N
	5032402_20	NA	JW-SB/SG15	SO	JW-SB15-0.5	1503041-15	5032406	1/1	13-Mar-2015 10:50 AM	24-Mar-2015 1:16 PM	24-Mar-2015 6:34 PM	N
	5032402_20	NA	JW-SB/SG15	SO	JW-SB15-15	1503041-18	5032406	1/1	13-Mar-2015 11:10 AM	24-Mar-2015 8:09 PM	24-Mar-2015 8:09 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C24001-CC	5032402_20	NA	JW-SB/SG15	SO	JW-SB15-2	1503041-16	5032406	1/1	13-Mar-2015 10:55 AM	24-Mar-2015 1:16 PM	24-Mar-2015 7:06 PM	N
	5032402_20	NA	JW-SB/SG15	SO	JW-SB15-25	1503041-19	5032406	1/1	13-Mar-2015 11:15 AM	24-Mar-2015 8:41 PM	24-Mar-2015 8:41 PM	N
	5032402_20	NA	JW-SB/SG15	SO	JW-SB15-35	1503041-20	5032406	1/1	13-Mar-2015 11:20 AM	24-Mar-2015 1:16 PM	24-Mar-2015 9:13 PM	N
	5032402_20	NA	JW-SB/SG15	SO	JW-SB15-5	1503041-17	5032406	1/1	13-Mar-2015 11:00 AM	24-Mar-2015 1:16 PM	24-Mar-2015 7:37 PM	N
	5032402_20	NA	LABQC	SQ	LABQC	5032402-BLK1	5032406	1/1	24-Mar-2015 1:16 PM	24-Mar-2015 1:16 PM	24-Mar-2015 1:16 PM	LB
5C25003-CC	5032509_20	NA	JW-SB/SG12	SO	JW-SB12-0.5	1503041-21RE1	5032503	1/1	16-Mar-2015 8:35 AM	25-Mar-2015 3:26 PM	25-Mar-2015 6:37 PM	N
	5032509_20	NA	JW-SB/SG16	SO	JW-SB16-0.5	1503041-01RE1	5032503	1/1	10-Mar-2015 10:00 AM	25-Mar-2015 3:26 PM	25-Mar-2015 3:58 PM	N
	5032509_20	NA	LABQC	SQ	LABQC	5032509-BLK1	5032503	1/1	25-Mar-2015 3:26 PM	25-Mar-2015 3:26 PM	25-Mar-2015 3:26 PM	LB
	5032509_20	NA	LABQC	SQ	LABQC	1503041-08	5032503	1/1	25-Mar-2015 3:26 PM	25-Mar-2015 3:26 PM	25-Mar-2015 7:08 PM	LB

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
035f5C1900	5031613_20	NA	JW-SB/SG14	SO	JW-SB14-0.5	1503041-09	5032003_5C	1/1	13-Mar-2015 8:40 AM	18-Mar-2015 9:25 AM	20-Mar-2015 7:06 PM	N
	5031613_20	NA	JW-SB/SG14	SO	JW-SB14-2	5031613-MS1	5032003_5C	1/1	13-Mar-2015 9:20 AM	18-Mar-2015 9:15 AM	20-Mar-2015 2:32 PM	MS
	5031613_20	NA	JW-SB/SG14	SO	JW-SB14-2	1503041-10	5032003_5C	1/1	13-Mar-2015 9:20 AM	18-Mar-2015 9:25 AM	20-Mar-2015 7:36 PM	N
	5031613_20	NA	JW-SB/SG14	SO	JW-SB14-2	5031613-MSD1	5032003_5C	1/1	13-Mar-2015 9:20 AM	18-Mar-2015 9:15 AM	20-Mar-2015 3:02 PM	SD
	5031613_20	NA	JW-SB/SG14	SO	JW-SB14-5	1503041-11	5032003_5C	1/1	13-Mar-2015 9:30 AM	18-Mar-2015 9:25 AM	20-Mar-2015 8:07 PM	N
	5031613_20	NA	JW-SB/SG16	SO	JW-SB16-0.5	1503041-01	5032003_5C	1/1	10-Mar-2015 10:00 AM	18-Mar-2015 9:25 AM	20-Mar-2015 3:33 PM	N
	5031613_20	NA	JW-SB/SG16	SO	JW-SB16-0.6	1503041-02	5032003_5C	1/1	10-Mar-2015 10:05 AM	18-Mar-2015 9:25 AM	20-Mar-2015 4:03 PM	FD
	5031613_20	NA	JW-SB/SG16	SO	JW-SB16-15	1503041-05	5032003_5C	1/1	10-Mar-2015 11:15 AM	18-Mar-2015 9:25 AM	20-Mar-2015 5:35 PM	N
	5031613_20	NA	JW-SB/SG16	SO	JW-SB16-2	1503041-04	5032003_5C	1/1	10-Mar-2015 10:15 AM	18-Mar-2015 9:25 AM	20-Mar-2015 5:04 PM	N
	5031613_20	NA	JW-SB/SG16	SO	JW-SB16-25	1503041-06	5032003_5C	1/1	10-Mar-2015 11:20 AM	18-Mar-2015 9:25 AM	20-Mar-2015 6:05 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
035f5C1900	5031613_20	NA	JW-SB/SG16	SO	JW-SB16-35	1503041-07	5032003_5C	1/1	10-Mar-2015 11:30 AM	18-Mar-2015 9:25 AM	20-Mar-2015 6:36 PM	N
	5031613_20	NA	JW-SB/SG16	SO	JW-SB16-5	1503041-03	5032003_5C	1/1	10-Mar-2015 10:10 AM	18-Mar-2015 9:25 AM	20-Mar-2015 4:34 PM	N
	5031613_20	NA	LABQC	SQ	LABQC	5031613-BS1	5032003_5C	1/1	18-Mar-2015 9:15 AM	18-Mar-2015 9:15 AM	20-Mar-2015 2:02 PM	BS
	5031613_20	NA	LABQC	SQ	LABQC	5031613-BLK1	5032003_5C	1/1	18-Mar-2015 9:15 AM	18-Mar-2015 9:15 AM	20-Mar-2015 1:02 PM	LB
055f5C1900	5031613_20	NA	JW-SB/SG14	SO	JW-SB14-15	1503041-12	5032003_5C	1/1	13-Mar-2015 9:40 AM	18-Mar-2015 9:25 AM	20-Mar-2015 11:10 PM	N
	5031613_20	NA	JW-SB/SG14	SO	JW-SB14-25	1503041-13	5032003_5C	1/1	13-Mar-2015 9:45 AM	18-Mar-2015 9:25 AM	20-Mar-2015 11:40 PM	N
	5031613_20	NA	JW-SB/SG14	SO	JW-SB14-35	1503041-14	5032003_5C	1/1	13-Mar-2015 10:00 AM	18-Mar-2015 9:25 AM	21-Mar-2015 12:11 AM	N
	5031613_20	NA	JW-SB/SG15	SO	JW-SB15-0.5	1503041-15	5032003_5C	1/1	13-Mar-2015 10:50 AM	18-Mar-2015 9:25 AM	21-Mar-2015 12:41 AM	N
	5031613_20	NA	JW-SB/SG15	SO	JW-SB15-15	1503041-18	5032003_5C	1/1	13-Mar-2015 11:10 AM	18-Mar-2015 9:25 AM	21-Mar-2015 2:12 AM	N
	5031613_20	NA	JW-SB/SG15	SO	JW-SB15-2	1503041-16	5032003_5C	1/1	13-Mar-2015 10:55 AM	18-Mar-2015 9:25 AM	21-Mar-2015 1:11 AM	N
	5031613_20	NA	JW-SB/SG15	SO	JW-SB15-25	1503041-19	5032003_5C	1/1	13-Mar-2015 11:15 AM	18-Mar-2015 9:25 AM	21-Mar-2015 2:43 AM	N
	5031613_20	NA	JW-SB/SG15	SO	JW-SB15-35	1503041-20	5032003_5C	1/1	13-Mar-2015 11:20 AM	18-Mar-2015 9:25 AM	21-Mar-2015 3:13 AM	N
	5031613_20	NA	JW-SB/SG15	SO	JW-SB15-5	1503041-17	5032003_5C	1/1	13-Mar-2015 11:00 AM	18-Mar-2015 9:25 AM	21-Mar-2015 1:42 AM	N
	5031901_20	NA	JW-SB/SG12	SO	JW-SB12-0.5	1503041-21	5032003_5C	1/1	16-Mar-2015 8:35 AM	19-Mar-2015 11:15 AM	21-Mar-2015 5:15 AM	N
	5031901_20	NA	LABQC	SQ	LABQC	5031901-BS1	5032003_5C	1/1	19-Mar-2015 11:15 AM	19-Mar-2015 11:15 AM	21-Mar-2015 4:45 AM	BS
	5031901_20	NA	LABQC	SQ	LABQC	5031901-BLK1	5032003_5C	1/1	19-Mar-2015 11:15 AM	19-Mar-2015 11:15 AM	21-Mar-2015 3:44 AM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Field Batch Report

--No Records Found--

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CSVOL12 / SW3550B	MS RPD	5031612-MSD1 (SD)	1 / 1.00	Acetophenone	200	RPD	J/UJ	< 50	< 100	D2		RPD	
CSVOL12 / SW3550B	MS RPD	5031612-MSD1 (SD)	1 / 1.00	bis(2-Ethylhexyl) Phthalate	200	RPD	J/UJ	< 50	< 100	D2		RPD	
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	2,4-Dichlorophenol-d3	12.1	Percent	J/UJ	23 - 104	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	2-Chlorophenol-d4	12.9	Percent	J/UJ	13 - 101	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	2-Nitrophenol-d4	10.7	Percent	J/UJ	16 - 104	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	4-Nitrophenol-d4	7.86	Percent	J/R	16 - 166	10 - 177	S			
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Acenaphthylene-d8	15.0	Percent	J/UJ	20 - 97	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Anthracene-d10	16.4	Percent	J/UJ	22 - 98	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Benzo(a)pyrene-d12	16.4	Percent	J/UJ	43 - 111	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Dimethylphthalate-d6	17.1	Percent	J/UJ	43 - 111	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Fluorene-d10	17.9	Percent	J/UJ	40 - 108	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Nitrobenzene-d5	15.0	Percent	J/UJ	16 - 103	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Phenol-d5	12.1	Percent	J/UJ	17 - 103	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Pyrene-d10	19.3	Percent	J/UJ	51 - 120	10 - 130	S			
CSVOL12 / SW3550B	Surrogate	JW-SB14-15 (N)	1 / 1.00	Anthracene-d10	107	Percent	J/None	22 - 98	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB14-2 (MS)	1 / 1.00	4-Chloroaniline-d4	0.114	Percent	J/UJ	1 - 145	< 155	S			
CSVOL12 / SW3550B	Surrogate	JW-SB14-2 (SD)	1 / 1.00	4-Chloroaniline-d4	0.929	Percent	J/UJ	1 - 145	< 155	S			
CSVOL12 / SW3550B	Surrogate	JW-SB15-0.5 (N)	1 / 10.00	4-Methylphenol-d8	7.14	Percent	J/UJ	8 - 100	5 - 120	S	Diluted Out	2.00	
CSVOL12 / SW3550B	Surrogate	JW-SB16-25 (N)	1 / 1.00	Anthracene-d10	100	Percent	J/None	22 - 98	10 - 120	S			
CVOL / METHOD	Blank	5032302-BLK1 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.790	ug/kg	U/None	< 0.42	< 5	B1		1	0.790
CVOL / METHOD	Blank	5032302-BLK1 (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.700	ug/kg	U/None	< 0.53	< 5	B1		1	0.700
CVOL / METHOD	Blank	5032402-BLK1 (LB)	1 / 1.00	Methylene Chloride	0.650	ug/kg	U/None	< 0.63	< 5	B1		2	1.30

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Blank	5032509-BLK1 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.460	ug/kg	U/None	< 0.42	< 5	B1		1	0.460
CVOL / METHOD	MS RPD	5032302-MSD1 (SD)	1 / 1.00	Tetrachloroethene (PCE)	57.0	RPD	J/UJ	< 25	< 50	D2		RPD	
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	1.12	PERCENT	J/R	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	1,1-Dichloroethene-d2	38.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	16.0	PERCENT	J/R	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	1,2-Dichloroethane-d4	62.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	1,2-Dichloropropane-d6	52.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	1,4-Dioxane-d8	62.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	2-Butanone-d5	64.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	2-Hexanone-d5	45.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Benzene-d6	48.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Chloroethane-d5	64.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Chloroform-d	13.2	PERCENT	J/R	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Toluene-d8	34.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	48.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB12-0.5 (N)	1 / 1.00	Vinyl Chloride-d3	60.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-0.5 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	24.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-0.5 (N)	1 / 1.00	Chloroform-d	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	42.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (N)	1 / 1.00	1,1-Dichloroethene-d2	50.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	1,1-Dichloroethene-d2	62.0	PERCENT	J/UJ	70 - 130	20 - 140	S			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	1,2-Dichlorobenzene-d4	24.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	32.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	1,2-Dichloroethane-d4	58.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	1,2-Dichloropropane-d6	46.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (N)	1 / 1.00	1,2-Dichloropropane-d6	64.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	1,4-Dioxane-d8	54.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	2-Butanone-d5	49.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (N)	1 / 1.00	2-Butanone-d5	69.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	2-Hexanone-d5	43.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (N)	1 / 1.00	2-Hexanone-d5	64.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	Benzene-d6	46.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (N)	1 / 1.00	Benzene-d6	62.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	Chloroethane-d5	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	Chloroform-d	50.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (N)	1 / 1.00	Chloroform-d	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	Toluene-d8	40.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (N)	1 / 1.00	Toluene-d8	52.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	trans-1,3-Dichloropropene-d4	48.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-2 (MS)	1 / 1.00	Vinyl Chloride-d3	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-25 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	62.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-25 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	38.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	1,1-Dichloroethene-d2	38.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	15.0	PERCENT	J/R	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	1,2-Dichloroethane-d4	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	1,2-Dichloropropane-d6	44.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	1,4-Dioxane-d8	52.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	2-Butanone-d5	40.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	2-Hexanone-d5	36.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	Benzene-d6	44.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	Chloroethane-d5	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	Chloroform-d	48.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	Toluene-d8	36.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	46.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB14-5 (N)	1 / 1.00	Vinyl Chloride-d3	58.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB15-0.5 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB15-15 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	62.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB15-15 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB15-2 (N)	1 / 1.00	1,2-Dichloroethane-d4	134	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB15-25 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB15-35 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	58.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB15-5 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	64.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB16-0.5 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	60.0	PERCENT	J/UJ	70 - 130	20 - 140	S			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Surrogate	JW-SB16-0.5 (N)	1 / 1.00	1,1-Dichloroethene-d2	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB16-0.5 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	46.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB16-0.5 (N)	1 / 1.00	Chloroform-d	68.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB16-0.5 (N)	1 / 1.00	Toluene-d8	64.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB16-0.5 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	68.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB16-0.6 (FD)	1 / 1.00	1,2-Dichlorobenzene-d4	48.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB16-15 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	68.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB16-5 (N)	1 / 1.00	1,2-Dichloroethane-d4	136	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Test Hold Time	JW-SB16-0.5 (N)	1 / 1.00	All in Run	15.3	Days	J/UJ	< 14	< 28	H1			
SW8082 / SW3550B	LCS Recovery	5031613-BS1 (BS)	1 / 1.00	PCB-1016 (Arochlor 1016)	27.1	Percent	J/UJ	50 - 150	20 - 160	L			
SW8082 / SW3550B	LCS Recovery	5031613-BS1 (BS)	1 / 1.00	PCB-1260 (Arochlor 1260)	25.0	Percent	J/UJ	50 - 150	20 - 160	L			
SW8082 / SW3550B	LCS Recovery	5031901-BS1 (BS)	1 / 1.00	PCB-1016 (Arochlor 1016)	25.0	Percent	J/UJ	50 - 150	20 - 160	L			
SW8082 / SW3550B	LCS Recovery	5031901-BS1 (BS)	1 / 1.00	PCB-1260 (Arochlor 1260)	24.3	Percent	J/UJ	50 - 150	20 - 160	L			
SW8082 / SW3550B	Surrogate	JW-SB15-35 (N)	1 / 1.00	Decachlorobiphenyl	24.3	Percent	J/UJ	30 - 150	20 - 160	S			
SW8082 / SW3550B	Surrogate	JW-SB15-5 (N)	1 / 1.00	Decachlorobiphenyl	24.8	Percent	J/UJ	30 - 150	20 - 160	S			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB12-0.5	N	1,2,4,5-Tetrachlorobenzene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	2,3,4,6-Tetrachlorophenol	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	2,4,5-Trichlorophenol	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	2,4,6-Trichlorophenol	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	2,4-Dichlorophenol	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	2,4-Dinitrophenol	360	360 U	360 UJ	ug/kg	S/C11
CSVOL12/NONE	SO	JW-SB12-0.5	N	2,4-Dinitrotoluene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	2,6-Dinitrotoluene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	2-Chloronaphthalene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	2-Chlorophenol	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	2-Methylnaphthalene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	2-Nitroaniline	360	360 U	360 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	2-Nitrophenol	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	3-Nitroaniline	360	360 U	360 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	4-Bromophenyl phenyl ether	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	4-Chloro-3-Methylphenol	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	4-Chlorophenyl Phenyl Ether	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	4-Nitroaniline	360	360 U	360 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	4-Nitrophenol	360	360 U	360 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Acenaphthene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Acenaphthylene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Acetophenone	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Anthracene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Atrazine	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Benzaldehyde	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Benzo(a)anthracene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Benzo(a)pyrene	180	180 U	180 R	ug/kg	I/S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB12-0.5	N	Benzo(b)fluoranthene	180	180 U	180 R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Benzo(g,h,i)perylene	180	180 U	180 R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Benzo(k)fluoranthene	180	180 U	180 R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Benzyl butyl phthalate	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Biphenyl (Diphenyl)	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	bis(2-Ethylhexyl) Phthalate	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Caprolactam	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Carbazole	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Chrysene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Dibenz(a,h)anthracene	180	180 U	180 R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Dibenzofuran	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Diethyl Phthalate	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Dimethyl Phthalate	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Di-n-Butyl Phthalate	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Di-n-Octylphthalate	180	180 U	180 R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Fluoranthene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Fluorene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Hexachlorobenzene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Hexachlorobutadiene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Hexachlorocyclopentadiene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Hexachloroethane	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Indeno(1,2,3-c,d)pyrene	180	180 U	180 R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Isophorone	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Naphthalene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Nitrobenzene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	n-Nitrosodi-n-propylamine	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	n-Nitrosodiphenylamine	180	180 U	180 UJ	ug/kg	S

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB12-0.5	N	Pentachlorophenol	360	360 U	360 UJ	ug/kg	S/C11
CSVOL12/NONE	SO	JW-SB12-0.5	N	Phenanthrene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Phenol	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Pyrene	180	180 U	180 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB14-2	N	Acetophenone	180	180 U	180 UJ	ug/kg	D2
CSVOL12/NONE	SO	JW-SB14-2	N	bis(2-Ethylhexyl) Phthalate	180	180 U	180 UJ	ug/kg	D2
CSVOL12/NONE	SO	JW-SB14-2	N	Fluoranthene	180	34.0 J	34.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Benzo(a)anthracene	180	43.0 J	43.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Benzo(a)pyrene	180	49.0 J	49.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Benzo(b)fluoranthene	180	57.0 J	57.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Chrysene	180	53.0 J	53.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Fluoranthene	180	89.0 J	89.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Indeno(1,2,3-c,d)pyrene	180	32.0 J	32.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB16-5	N	Acetophenone	210	79.0 J	79.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB16-5	N	Fluoranthene	210	47.0 J	47.0 J	ug/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB12-0.5	N	1,1,1-Trichloroethane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,1,2,2-Tetrachloroethane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,1,2-Trichloro-1,2,2-trifluoroethane	4.5	4.5 U	4.5 R	ug/kg	S/C11
CVOL/NONE	SO	JW-SB12-0.5	N	1,1,2-Trichloroethane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,1-Dichloroethane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,1-Dichloroethene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2,3-Trichlorobenzene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2,3-Trichloropropane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2,4-Trichlorobenzene	4.5	4.5 U	4.5 R	ug/kg	S/C11
CVOL/NONE	SO	JW-SB12-0.5	N	1,2-Dibromo-3-chloropropane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2-Dibromoethane (EDB)	4.5	4.5 U	4.5 R	ug/kg	S

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB12-0.5	N	1,2-Dichlorobenzene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2-Dichloroethane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2-Dichloropropane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,3-Dichlorobenzene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,4-Dichlorobenzene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,4-Dioxane (p-Dioxane)	91.0	91.0 U	91.0 R	ug/kg	S/C10
CVOL/NONE	SO	JW-SB12-0.5	N	2-Butanone (MEK)	9.1	9.1 U	9.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	2-Hexanone	9.1	9.1 U	9.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	4-Methyl-2-pentanone (MIBK)	9.1	2.4 J	2.4 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB12-0.5	N	Acetone	9.1	83.0	83.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Benzene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Bromochloromethane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Bromodichloromethane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Bromoform	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Bromomethane	4.5	4.5 U	4.5 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Carbon Disulfide	4.5	4.5 U	4.5 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Carbon Tetrachloride	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Chlorobenzene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Chloroethane	4.5	4.5 U	4.5 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Chloroform	4.5	21.0	21.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Chloromethane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	cis-1,2-Dichloroethylene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	cis-1,3-Dichloropropene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Cyclohexane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Dibromochloromethane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Dichlorodifluoromethane	4.5	4.5 U	4.5 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Ethylbenzene	4.5	4.5 U	4.5 R	ug/kg	S

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB12-0.5	N	Isopropylbenzene (Cumene)	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	m,p-Xylene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Methyl Acetate	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Methylcyclohexane	4.5	4.5 U	4.5 R	ug/kg	S/C11
CVOL/NONE	SO	JW-SB12-0.5	N	Methylene Chloride	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	o-Xylene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Styrene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	tert-Butyl Methyl Ether (MTBE)	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Tetrachloroethene (PCE)	4.5	7.7	7.7 J	ug/kg	S/C11
CVOL/NONE	SO	JW-SB12-0.5	N	Toluene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	trans-1,2-Dichloroethene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	trans-1,3-Dichloropropene	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Trichloroethene (TCE)	4.5	2.0 J	2.0 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB12-0.5	N	Trichlorofluoromethane	4.5	4.5 U	4.5 R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Vinyl Chloride	4.5	4.5 U	4.5 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,1,1-Trichloroethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,1,2,2-Tetrachloroethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,1,2-Trichloroethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,1-Dichloroethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,1-Dichloroethene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,2,3-Trichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,2,3-Trichloropropane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,2,4-Trichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,2-Dibromo-3-chloropropane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,2-Dibromoethane (EDB)	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,2-Dichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB14-0.5	N	1,2-Dichloroethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,2-Dichloropropane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,3-Dichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,4-Dichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	1,4-Dioxane (p-Dioxane)	97.0	97.0 U	97.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	2-Butanone (MEK)	9.7	9.7 U	9.7 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	2-Hexanone	9.7	9.7 U	9.7 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	4-Methyl-2-pentanone (MIBK)	9.7	9.7 U	9.7 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Acetone	9.7	8.0 J	8.0 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB14-0.5	N	Benzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Bromochloromethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Bromodichloromethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Bromoform	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Bromomethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Carbon Disulfide	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Carbon Tetrachloride	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Chlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Chloroethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Chloroform	4.9	17.0	17.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Chloromethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	cis-1,2-Dichloroethylene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	cis-1,3-Dichloropropene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Cyclohexane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Dibromochloromethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Dichlorodifluoromethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Ethylbenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Isopropylbenzene (Cumene)	4.9	4.9 U	4.9 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB14-0.5	N	m,p-Xylene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Methyl Acetate	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Methylcyclohexane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Methylene Chloride	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	o-Xylene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Styrene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	tert-Butyl Methyl Ether (MTBE)	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Tetrachloroethene (PCE)	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Toluene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	trans-1,2-Dichloroethene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	trans-1,3-Dichloropropene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Trichloroethene (TCE)	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Trichlorofluoromethane	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Vinyl Chloride	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-15	N	Acetone	11.0	5.4 J	5.4 J	ug/kg	TR
CVOL/NONE	SO	JW-SB14-15	N	Chloroform	5.7	3.5 J	3.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB14-15	N	Trichloroethene (TCE)	5.7	1.7 J	1.7 J	ug/kg	TR
CVOL/NONE	SO	JW-SB14-2	N	1,1,1-Trichloroethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,1,2,2-Tetrachloroethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,1,2-Trichloroethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,1-Dichloroethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,1-Dichloroethene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,2,3-Trichlorobenzene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,2,3-Trichloropropane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,2,4-Trichlorobenzene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,2-Dibromo-3-chloropropane	5.0	5.0 U	5.0 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB14-2	N	1,2-Dibromoethane (EDB)	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,2-Dichlorobenzene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,2-Dichloroethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,2-Dichloropropane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,3-Dichlorobenzene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,4-Dichlorobenzene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	2-Butanone (MEK)	10.0	10.0 U	10.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	2-Hexanone	10.0	10.0 U	10.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	4-Methyl-2-pentanone (MIBK)	10.0	10.0 U	10.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Acetone	10.0	11.0	11.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Benzene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Bromochloromethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Bromodichloromethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Bromoform	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Bromomethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Carbon Disulfide	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Carbon Tetrachloride	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Chlorobenzene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Chloroethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Chloroform	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Chloromethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	cis-1,2-Dichloroethylene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	cis-1,3-Dichloropropene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Cyclohexane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Dibromochloromethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Dichlorodifluoromethane	5.0	5.0 U	5.0 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB14-2	N	Ethylbenzene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Isopropylbenzene (Cumene)	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	m,p-Xylene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Methyl Acetate	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Methylcyclohexane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Methylene Chloride	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	o-Xylene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Styrene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	tert-Butyl Methyl Ether (MTBE)	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Tetrachloroethene (PCE)	5.0	1.4 J	1.4 J	ug/kg	D2/S/TR
CVOL/NONE	SO	JW-SB14-2	N	Toluene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	trans-1,2-Dichloroethene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	trans-1,3-Dichloropropene	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Trichloroethene (TCE)	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Trichlorofluoromethane	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Vinyl Chloride	5.0	5.0 U	5.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,1,1-Trichloroethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,1,2,2-Tetrachloroethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,1,2-Trichloroethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,1-Dichloroethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,1-Dichloroethene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,2,3-Trichlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,2,3-Trichloropropane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,2,4-Trichlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,2-Dibromo-3-chloropropane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,2-Dibromoethane (EDB)	5.4	5.4 U	5.4 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB14-25	N	1,2-Dichlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,2-Dichloroethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,2-Dichloropropane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,3-Dichlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,4-Dichlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	2-Butanone (MEK)	11.0	11.0 U	11.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	2-Hexanone	11.0	11.0 U	11.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	4-Methyl-2-pentanone (MIBK)	11.0	11.0 U	11.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Acetone	11.0	5.0 J	5.0 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB14-25	N	Benzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Bromochloromethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Bromodichloromethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Bromoform	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Bromomethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Carbon Disulfide	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Carbon Tetrachloride	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Chlorobenzene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Chloroethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Chloroform	5.4	3.9 J	3.9 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB14-25	N	Chloromethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	cis-1,2-Dichloroethylene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	cis-1,3-Dichloropropene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Cyclohexane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Dibromochloromethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Dichlorodifluoromethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Ethylbenzene	5.4	5.4 U	5.4 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB14-25	N	Isopropylbenzene (Cumene)	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	m,p-Xylene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Methyl Acetate	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Methylcyclohexane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Methylene Chloride	5.4	5.4 JB	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	o-Xylene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Styrene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	tert-Butyl Methyl Ether (MTBE)	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Tetrachloroethene (PCE)	5.4	7.2	7.2 J	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Toluene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	trans-1,2-Dichloroethene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	trans-1,3-Dichloropropene	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Trichloroethene (TCE)	5.4	3.9 J	3.9 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB14-25	N	Trichlorofluoromethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Vinyl Chloride	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-35	N	Acetone	11.0	5.8 J	5.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB14-35	N	Trichloroethene (TCE)	5.3	3.7 J	3.7 J	ug/kg	TR
CVOL/NONE	SO	JW-SB14-5	N	1,1,1-Trichloroethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,1,2,2-Tetrachloroethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,1,2-Trichloroethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,1-Dichloroethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,1-Dichloroethene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,2,3-Trichlorobenzene	5.3	5.3 U	5.3 R	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,2,3-Trichloropropane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,2,4-Trichlorobenzene	5.3	5.3 U	5.3 R	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,2-Dibromo-3-chloropropane	5.3	5.3 U	5.3 UJ	ug/kg	S

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB14-5	N	1,2-Dibromoethane (EDB)	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,2-Dichlorobenzene	5.3	5.3 U	5.3 R	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,2-Dichloroethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,2-Dichloropropane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,3-Dichlorobenzene	5.3	5.3 U	5.3 R	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,4-Dichlorobenzene	5.3	5.3 U	5.3 R	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	2-Butanone (MEK)	11.0	11.0 U	11.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	2-Hexanone	11.0	11.0 U	11.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	4-Methyl-2-pentanone (MIBK)	11.0	11.0 U	11.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Acetone	11.0	7.7 J	7.7 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB14-5	N	Benzene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Bromochloromethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Bromodichloromethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Bromoform	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Bromomethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Carbon Disulfide	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Carbon Tetrachloride	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Chlorobenzene	5.3	5.3 U	5.3 R	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Chloroethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Chloroform	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Chloromethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	cis-1,2-Dichloroethylene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	cis-1,3-Dichloropropene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Cyclohexane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Dibromochloromethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Dichlorodifluoromethane	5.3	5.3 U	5.3 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB14-5	N	Ethylbenzene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Isopropylbenzene (Cumene)	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	m,p-Xylene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Methyl Acetate	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Methylcyclohexane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Methylene Chloride	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	o-Xylene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Styrene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	tert-Butyl Methyl Ether (MTBE)	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Tetrachloroethene (PCE)	5.3	1.2 J	1.2 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB14-5	N	Toluene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	trans-1,2-Dichloroethene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	trans-1,3-Dichloropropene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Trichloroethene (TCE)	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Trichlorofluoromethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Vinyl Chloride	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-0.5	N	Acetone	9.4	6.8 J	6.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-0.5	N	Tetrachloroethene (PCE)	4.7	2.2 J	2.2 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-15	N	1,1,1-Trichloroethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,1,2,2-Tetrachloroethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,1,2-Trichloroethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,1-Dichloroethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,1-Dichloroethene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,2,3-Trichlorobenzene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,2,3-Trichloropropane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,2,4-Trichlorobenzene	5.6	5.6 U	5.6 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB15-15	N	1,2-Dibromo-3-chloropropane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,2-Dibromoethane (EDB)	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,2-Dichlorobenzene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,2-Dichloroethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,2-Dichloropropane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,3-Dichlorobenzene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,4-Dichlorobenzene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	2-Butanone (MEK)	11.0	11.0 U	11.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	2-Hexanone	11.0	11.0 U	11.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	4-Methyl-2-pentanone (MIBK)	11.0	11.0 U	11.0 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Acetone	11.0	4.7 J	4.7 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB15-15	N	Benzene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Bromochloromethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Bromodichloromethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Bromoform	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Bromomethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Carbon Disulfide	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Carbon Tetrachloride	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Chlorobenzene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Chloroethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Chloroform	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Chloromethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	cis-1,2-Dichloroethylene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	cis-1,3-Dichloropropene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Cyclohexane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Dibromochloromethane	5.6	5.6 U	5.6 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB15-15	N	Dichlorodifluoromethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Ethylbenzene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Isopropylbenzene (Cumene)	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	m,p-Xylene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Methyl Acetate	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Methylcyclohexane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Methylene Chloride	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	o-Xylene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Styrene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	tert-Butyl Methyl Ether (MTBE)	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Tetrachloroethene (PCE)	5.6	10.0	10.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Toluene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	trans-1,2-Dichloroethene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	trans-1,3-Dichloropropene	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Trichloroethene (TCE)	5.6	4.4 J	4.4 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB15-15	N	Trichlorofluoromethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Vinyl Chloride	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB15-2	N	Acetone	12.0	6.8 J	6.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-2	N	Tetrachloroethene (PCE)	6.0	1.4 J	1.4 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-25	N	Trichloroethene (TCE)	5.5	4.4 J	4.4 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-5	N	Acetone	12.0	8.9 J	8.9 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-5	N	Tetrachloroethene (PCE)	6.2	1.6 J	1.6 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-0.5	N	1,1,1-Trichloroethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,1,2,2-Tetrachloroethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,1,2-Trichloroethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,1-Dichloroethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB16-0.5	N	1,1-Dichloroethene	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,2,3-Trichlorobenzene	4.9	4.9 U	4.9 R	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,2,3-Trichloropropane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,2,4-Trichlorobenzene	4.9	4.9 U	4.9 R	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,2-Dibromo-3-chloropropane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,2-Dibromoethane (EDB)	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,2-Dichlorobenzene	4.9	4.9 U	4.9 R	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,2-Dichloroethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,2-Dichloropropane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,3-Dichlorobenzene	4.9	4.9 U	4.9 R	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,4-Dichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,4-Dioxane (p-Dioxane)	99.0	99.0 U	99.0 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	2-Butanone (MEK)	9.9	9.9 U	9.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	2-Hexanone	9.9	9.9 U	9.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	4-Methyl-2-pentanone (MIBK)	9.9	9.9 U	9.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Acetone	9.9	5.9 J	5.9 J	ug/kg	H1/S/TR
CVOL/NONE	SO	JW-SB16-0.5	N	Benzene	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Bromochloromethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Bromodichloromethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Bromoform	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Bromomethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Carbon Disulfide	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Carbon Tetrachloride	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Chlorobenzene	4.9	4.9 U	4.9 R	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Chloroethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Chloroform	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Chloromethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB16-0.5	N	cis-1,2-Dichloroethylene	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	cis-1,3-Dichloropropene	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Cyclohexane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Dibromochloromethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Dichlorodifluoromethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Ethylbenzene	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Isopropylbenzene (Cumene)	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	m,p-Xylene	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Methyl Acetate	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Methylcyclohexane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Methylene Chloride	4.9	0.88 J	0.88 J	ug/kg	H1/S/TR
CVOL/NONE	SO	JW-SB16-0.5	N	o-Xylene	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Styrene	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	tert-Butyl Methyl Ether (MTBE)	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Tetrachloroethene (PCE)	4.9	0.79 J	0.79 J	ug/kg	H1/S/TR
CVOL/NONE	SO	JW-SB16-0.5	N	Toluene	4.9	0.55 J	0.55 J	ug/kg	H1/S/TR
CVOL/NONE	SO	JW-SB16-0.5	N	trans-1,2-Dichloroethene	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	trans-1,3-Dichloropropene	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Trichloroethene (TCE)	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Trichlorofluoromethane	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	Vinyl Chloride	4.9	4.9 U	4.9 UJ	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.6	FD	Acetone	10.0	6.5 J	6.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-0.6	FD	Methylene Chloride	5.1	0.99 J	0.99 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-0.6	FD	Tetrachloroethene (PCE)	5.1	0.71 J	0.71 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-0.6	FD	Toluene	5.1	0.64 J	0.64 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-15	N	Acetone	12.0	9.5 J	9.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-15	N	Tetrachloroethene (PCE)	5.8	3.3 J	3.3 J	ug/kg	TR

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB16-15	N	Trichloroethene (TCE)	5.8	3.8 J	3.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-2	N	Acetone	10.0	9.5 J	9.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-2	N	Toluene	5.2	0.73 J	0.73 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-25	N	Acetone	12.0	9.2 J	9.2 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-25	N	Tetrachloroethene (PCE)	5.8	3.0 J	3.0 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-35	N	Acetone	11.0	7.8 J	7.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-5	N	Acetone	13.0	6.9 J	6.9 J	ug/kg	TR
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
SW8082/NONE	SO	JW-SB12-0.5	N	PCB-1016 (Arochlor 1016)	36.0	36.0 U	36.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB12-0.5	N	PCB-1260 (Arochlor 1260)	36.0	53.0	53.0 J	ug/kg	L
SW8082/NONE	SO	JW-SB14-0.5	N	PCB-1016 (Arochlor 1016)	34.0	34.0 U	34.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB14-0.5	N	PCB-1260 (Arochlor 1260)	34.0	34.0 U	34.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB14-15	N	PCB-1016 (Arochlor 1016)	43.0	43.0 U	43.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB14-15	N	PCB-1260 (Arochlor 1260)	43.0	43.0 U	43.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB14-2	N	PCB-1016 (Arochlor 1016)	35.0	35.0 U	35.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB14-2	N	PCB-1260 (Arochlor 1260)	35.0	35.0 U	35.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB14-25	N	PCB-1016 (Arochlor 1016)	42.0	42.0 U	42.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB14-25	N	PCB-1260 (Arochlor 1260)	42.0	42.0 U	42.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB14-35	N	PCB-1016 (Arochlor 1016)	38.0	38.0 U	38.0 UJ	ug/kg	L/S
SW8082/NONE	SO	JW-SB14-35	N	PCB-1221 (Arochlor 1221)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB14-35	N	PCB-1232 (Arochlor 1232)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB14-35	N	PCB-1242 (Arochlor 1242)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB14-35	N	PCB-1248 (Arochlor 1248)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB14-35	N	PCB-1254 (Arochlor 1254)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB14-35	N	PCB-1260 (Arochlor 1260)	38.0	38.0 U	38.0 UJ	ug/kg	L/S
SW8082/NONE	SO	JW-SB14-35	N	PCB-1262 (Arochlor 1262)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB14-35	N	PCB-1268 (Arochlor 1268)	38.0	38.0 U	38.0 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	JW-SB14-5	N	PCB-1016 (Arochlor 1016)	36.0	36.0 U	36.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB14-5	N	PCB-1260 (Arochlor 1260)	36.0	36.0 U	36.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB15-0.5	N	PCB-1016 (Arochlor 1016)	37.0	37.0 U	37.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB15-0.5	N	PCB-1260 (Arochlor 1260)	37.0	37.0 U	37.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB15-15	N	PCB-1016 (Arochlor 1016)	41.0	41.0 U	41.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB15-15	N	PCB-1260 (Arochlor 1260)	41.0	41.0 U	41.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB15-2	N	PCB-1016 (Arochlor 1016)	35.0	35.0 U	35.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB15-2	N	PCB-1260 (Arochlor 1260)	35.0	35.0 U	35.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB15-25	N	PCB-1016 (Arochlor 1016)	40.0	40.0 U	40.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB15-25	N	PCB-1260 (Arochlor 1260)	40.0	40.0 U	40.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB15-35	N	PCB-1016 (Arochlor 1016)	36.0	36.0 U	36.0 UJ	ug/kg	L/S
SW8082/NONE	SO	JW-SB15-35	N	PCB-1221 (Arochlor 1221)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-35	N	PCB-1232 (Arochlor 1232)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-35	N	PCB-1242 (Arochlor 1242)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-35	N	PCB-1248 (Arochlor 1248)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-35	N	PCB-1254 (Arochlor 1254)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-35	N	PCB-1260 (Arochlor 1260)	36.0	36.0 U	36.0 UJ	ug/kg	L/S
SW8082/NONE	SO	JW-SB15-35	N	PCB-1262 (Arochlor 1262)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-35	N	PCB-1268 (Arochlor 1268)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-5	N	PCB-1016 (Arochlor 1016)	38.0	38.0 U	38.0 UJ	ug/kg	L/S
SW8082/NONE	SO	JW-SB15-5	N	PCB-1221 (Arochlor 1221)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-5	N	PCB-1232 (Arochlor 1232)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-5	N	PCB-1242 (Arochlor 1242)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-5	N	PCB-1248 (Arochlor 1248)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-5	N	PCB-1254 (Arochlor 1254)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB15-5	N	PCB-1260 (Arochlor 1260)	38.0	38.0 U	38.0 UJ	ug/kg	L/S
SW8082/NONE	SO	JW-SB15-5	N	PCB-1262 (Arochlor 1262)	38.0	38.0 U	38.0 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	JW-SB15-5	N	PCB-1268 (Arochlor 1268)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB16-0.5	N	PCB-1016 (Arochlor 1016)	36.0	36.0 U	36.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB16-0.5	N	PCB-1260 (Arochlor 1260)	36.0	36.0 U	36.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB16-0.6	FD	PCB-1016 (Arochlor 1016)	36.0	36.0 U	36.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB16-0.6	FD	PCB-1260 (Arochlor 1260)	36.0	36.0 U	36.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB16-15	N	PCB-1016 (Arochlor 1016)	42.0	42.0 U	42.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB16-15	N	PCB-1260 (Arochlor 1260)	42.0	42.0 U	42.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB16-2	N	PCB-1016 (Arochlor 1016)	37.0	37.0 U	37.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB16-2	N	PCB-1260 (Arochlor 1260)	37.0	37.0 U	37.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB16-25	N	PCB-1016 (Arochlor 1016)	44.0	44.0 U	44.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB16-25	N	PCB-1260 (Arochlor 1260)	44.0	44.0 U	44.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB16-35	N	PCB-1016 (Arochlor 1016)	36.0	36.0 U	36.0 UJ	ug/kg	L/S
SW8082/NONE	SO	JW-SB16-35	N	PCB-1221 (Arochlor 1221)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB16-35	N	PCB-1232 (Arochlor 1232)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB16-35	N	PCB-1242 (Arochlor 1242)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB16-35	N	PCB-1248 (Arochlor 1248)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB16-35	N	PCB-1254 (Arochlor 1254)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB16-35	N	PCB-1260 (Arochlor 1260)	36.0	36.0 U	36.0 UJ	ug/kg	L/S
SW8082/NONE	SO	JW-SB16-35	N	PCB-1262 (Arochlor 1262)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB16-35	N	PCB-1268 (Arochlor 1268)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB16-5	N	PCB-1016 (Arochlor 1016)	42.0	42.0 U	42.0 UJ	ug/kg	L
SW8082/NONE	SO	JW-SB16-5	N	PCB-1260 (Arochlor 1260)	42.0	42.0 U	42.0 UJ	ug/kg	L

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB14-2	N	Fluoranthene	180	34.0 J	34.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Benzo(a)anthracene	180	43.0 J	43.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Benzo(a)pyrene	180	49.0 J	49.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Benzo(b)fluoranthene	180	57.0 J	57.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Chrysene	180	53.0 J	53.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Fluoranthene	180	89.0 J	89.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB15-2	N	Indeno(1,2,3-c,d)pyrene	180	32.0 J	32.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB16-5	N	Acetophenone	210	79.0 J	79.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB16-5	N	Fluoranthene	210	47.0 J	47.0 J	ug/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB12-0.5	N	Acetone	9.1	83.0	83.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	4-Methyl-2-pentanone (MIBK)	9.1	2.4 J	2.4 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB12-0.5	N	Tetrachloroethene (PCE)	4.5	7.7	7.7 J	ug/kg	S/C11
CVOL/NONE	SO	JW-SB12-0.5	N	Trichloroethene (TCE)	4.5	2.0 J	2.0 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB12-0.5	N	Chloroform	4.5	21.0	21.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB14-0.5	N	Acetone	9.7	8.0 J	8.0 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB14-0.5	N	Chloroform	4.9	17.0	17.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB14-15	N	Acetone	11.0	5.4 J	5.4 J	ug/kg	TR
CVOL/NONE	SO	JW-SB14-15	N	Tetrachloroethene (PCE)	5.7	7.2	7.2	ug/kg	
CVOL/NONE	SO	JW-SB14-15	N	Trichloroethene (TCE)	5.7	1.7 J	1.7 J	ug/kg	TR
CVOL/NONE	SO	JW-SB14-15	N	Chloroform	5.7	3.5 J	3.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB14-2	N	Acetone	10.0	11.0	11.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB14-2	N	Tetrachloroethene (PCE)	5.0	1.4 J	1.4 J	ug/kg	D2/S/TR
CVOL/NONE	SO	JW-SB14-25	N	Acetone	11.0	5.0 J	5.0 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB14-25	N	Tetrachloroethene (PCE)	5.4	7.2	7.2 J	ug/kg	S
CVOL/NONE	SO	JW-SB14-25	N	Trichloroethene (TCE)	5.4	3.9 J	3.9 J	ug/kg	S/TR

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB14-25	N	Chloroform	5.4	3.9 J	3.9 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB14-35	N	Acetone	11.0	5.8 J	5.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB14-35	N	Trichloroethene (TCE)	5.3	3.7 J	3.7 J	ug/kg	TR
CVOL/NONE	SO	JW-SB14-5	N	Acetone	11.0	7.7 J	7.7 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB14-5	N	Tetrachloroethene (PCE)	5.3	1.2 J	1.2 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB15-0.5	N	Acetone	9.4	6.8 J	6.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-0.5	N	Tetrachloroethene (PCE)	4.7	2.2 J	2.2 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-15	N	Acetone	11.0	4.7 J	4.7 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB15-15	N	Tetrachloroethene (PCE)	5.6	10.0	10.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB15-15	N	Trichloroethene (TCE)	5.6	4.4 J	4.4 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB15-2	N	Acetone	12.0	6.8 J	6.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-2	N	Tetrachloroethene (PCE)	6.0	1.4 J	1.4 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-25	N	Tetrachloroethene (PCE)	5.5	11.0	11.0	ug/kg	
CVOL/NONE	SO	JW-SB15-25	N	Trichloroethene (TCE)	5.5	4.4 J	4.4 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-25	N	Chloroform	5.5	6.1	6.1	ug/kg	
CVOL/NONE	SO	JW-SB15-35	N	Chloroform	5.3	7.4	7.4	ug/kg	
CVOL/NONE	SO	JW-SB15-5	N	Acetone	12.0	8.9 J	8.9 J	ug/kg	TR
CVOL/NONE	SO	JW-SB15-5	N	Tetrachloroethene (PCE)	6.2	1.6 J	1.6 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-0.5	N	Acetone	9.9	5.9 J	5.9 J	ug/kg	H1/S/TR
CVOL/NONE	SO	JW-SB16-0.5	N	Toluene	4.9	0.55 J	0.55 J	ug/kg	H1/S/TR
CVOL/NONE	SO	JW-SB16-0.5	N	Methylene Chloride	4.9	0.88 J	0.88 J	ug/kg	H1/S/TR
CVOL/NONE	SO	JW-SB16-0.5	N	Tetrachloroethene (PCE)	4.9	0.79 J	0.79 J	ug/kg	H1/S/TR
CVOL/NONE	SO	JW-SB16-0.6	FD	Acetone	10.0	6.5 J	6.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-0.6	FD	Toluene	5.1	0.64 J	0.64 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-0.6	FD	Methylene Chloride	5.1	0.99 J	0.99 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-0.6	FD	Tetrachloroethene (PCE)	5.1	0.71 J	0.71 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-15	N	Acetone	12.0	9.5 J	9.5 J	ug/kg	TR

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB16-15	N	Tetrachloroethene (PCE)	5.8	3.3 J	3.3 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-15	N	Trichloroethene (TCE)	5.8	3.8 J	3.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-2	N	Acetone	10.0	9.5 J	9.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-2	N	Toluene	5.2	0.73 J	0.73 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-25	N	Acetone	12.0	9.2 J	9.2 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-25	N	Tetrachloroethene (PCE)	5.8	3.0 J	3.0 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-25	N	Trichloroethene (TCE)	5.8	8.8	8.8	ug/kg	
CVOL/NONE	SO	JW-SB16-35	N	Acetone	11.0	7.8 J	7.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB16-5	N	Acetone	13.0	6.9 J	6.9 J	ug/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	JW-SB12-0.5	N	PCB-1254 (Arochlor 1254)	36.0	95.0 S	95.0	ug/kg	
SW8082/NONE	SO	JW-SB12-0.5	N	PCB-1260 (Arochlor 1260)	36.0	53.0	53.0 J	ug/kg	L

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB12-0.5	N	Benzo(a)pyrene	180	180 U	R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Benzo(b)fluoranthene	180	180 U	R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Benzo(g,h,i)perylene	180	180 U	R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Benzo(k)fluoranthene	180	180 U	R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Dibenz(a,h)anthracene	180	180 U	R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Di-n-Octylphthalate	180	180 U	R	ug/kg	I/S
CSVOL12/NONE	SO	JW-SB12-0.5	N	Indeno(1,2,3-c,d)pyrene	180	180 U	R	ug/kg	I/S

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB12-0.5	N	Bromodichloromethane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Bromochloromethane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Benzene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Toluene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Methylcyclohexane	4.5	4.5 U	R	ug/kg	S/C11
CVOL/NONE	SO	JW-SB12-0.5	N	Chlorobenzene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Chloromethane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Carbon Tetrachloride	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Cyclohexane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Dibromochloromethane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2-Dibromo-3-chloropropane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,1-Dichloroethane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2-Dichloroethane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2-Dichlorobenzene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,3-Dichlorobenzene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,4-Dichlorobenzene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,1-Dichloroethene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	cis-1,2-Dichloroethylene	4.5	4.5 U	R	ug/kg	S

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB12-0.5	N	trans-1,2-Dichloroethene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	cis-1,3-Dichloropropene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	trans-1,3-Dichloropropene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2-Dichloropropane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,4-Dioxane (p-Dioxane)	91.0	91.0 U	R	ug/kg	S/C10
CVOL/NONE	SO	JW-SB12-0.5	N	Ethylbenzene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2-Dibromoethane (EDB)	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Trichlorofluoromethane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,1,2-Trichloro-1,2,2-trifluoroethane	4.5	4.5 U	R	ug/kg	S/C11
CVOL/NONE	SO	JW-SB12-0.5	N	Isopropylbenzene (Cumene)	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Methyl Acetate	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Methylene Chloride	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,1,2,2-Tetrachloroethane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Styrene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	Bromoform	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	tert-Butyl Methyl Ether (MTBE)	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,1,1-Trichloroethane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,1,2-Trichloroethane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2,3-Trichlorobenzene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	1,2,4-Trichlorobenzene	4.5	4.5 U	R	ug/kg	S/C11
CVOL/NONE	SO	JW-SB12-0.5	N	1,2,3-Trichloropropane	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	m,p-Xylene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB12-0.5	N	o-Xylene	4.5	4.5 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	Chlorobenzene	5.3	5.3 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,2-Dichlorobenzene	5.3	5.3 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,3-Dichlorobenzene	5.3	5.3 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,4-Dichlorobenzene	5.3	5.3 U	R	ug/kg	S

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB14-5	N	1,2,3-Trichlorobenzene	5.3	5.3 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB14-5	N	1,2,4-Trichlorobenzene	5.3	5.3 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB16-0.5	N	Chlorobenzene	4.9	4.9 U	R	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,2-Dichlorobenzene	4.9	4.9 U	R	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,3-Dichlorobenzene	4.9	4.9 U	R	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,2,3-Trichlorobenzene	4.9	4.9 U	R	ug/kg	H1/S
CVOL/NONE	SO	JW-SB16-0.5	N	1,2,4-Trichlorobenzene	4.9	4.9 U	R	ug/kg	H1/S

AUTOMATED DATA REVIEW SUMMARY for Y9SS9

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: Liberty Analytical Corporation
Field Contractor: Gilbane Company, Walnut Creek, CA
Data Review Contractor: Gilbane

SDG: Y9SX3, Certified - 4/7/2015 by wtse
QC Level: S2BVEM (Tier 1B)
Project Manager: Peter Phillips

Data Reviewer: Tom Beer
Data Reviewer Title: Project Chemist
Date of Review Report: August 10, 2015
Second Reviewer:
Completion Date of Second Reviewer:

Samples Included in SDG Y9SX3

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
CSVOL12/NONE	19	1
CVOL/NONE	19	1
SW8082/NONE	19	1

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by Liberty Analytical Corporation and were reported under sample delivery group (SDG) Y9SX3. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 107 results (4.15%) out of the 2580 results (sample and field QC samples) reported are qualified based on review and 25 results (0.97%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

A COC sample ID anomaly was noted but no data qualification are warranted.

Data qualifiers were added for initial (G) and continuing (C11) calibration anomalies, minor internal standards issues (I), and poor surrogate recoveries (S).

All 1,4-dioxane results by CVOL were rejected but the analysis by SVOL are all acceptable. Five other VOCs results were rejected for very poor surrogate recoveries (S).

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 10:10:55 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C19003-TU	5031310_20	NA	JW-SB/SG17	SO	JW-SB17-5	5031310-MS1	5032001_5C	1/1	11-Mar-2015 9:15 AM	16-Mar-2015 11:01 AM	19-Mar-2015 10:30 PM	MS
	5031310_20	NA	JW-SB/SG17	SO	JW-SB17-5	1503024-11	5032001_5C	1/1	11-Mar-2015 9:15 AM	16-Mar-2015 11:01 AM	19-Mar-2015 9:47 PM	N
	5031310_20	NA	JW-SB/SG17	SO	JW-SB17-5	5031310-MSD1	5032001_5C	1/1	11-Mar-2015 9:15 AM	16-Mar-2015 11:01 AM	19-Mar-2015 11:14 PM	SD
	5031310_20	NA	JW-SB/SG19	SO	JW-SB19-25	1503024-01	5032001_5C	1/1	09-Mar-2015 11:15 AM	16-Mar-2015 11:01 AM	19-Mar-2015 11:58 PM	N
	5031310_20	NA	JW-SB/SG19	SO	JW-SB19-35	1503024-02	5032001_5C	1/1	09-Mar-2015 11:30 AM	16-Mar-2015 11:01 AM	20-Mar-2015 12:41 AM	N
	5031310_20	NA	LABQC	SQ	LABQC	5031310-BLK1	5032001_5C	1/1	16-Mar-2015 11:01 AM	16-Mar-2015 11:01 AM	19-Mar-2015 9:03 PM	LB
5C20001-CC	5031310_20	NA	JW-SB/SG10	SO	JW-SB10-0.5	1503024-04	5032001_5C	1/1	11-Mar-2015 12:40 PM	16-Mar-2015 11:01 AM	21-Mar-2015 1:07 AM	N
	5031310_20	NA	JW-SB/SG10	SO	JW-SB10-15	1503024-06	5032001_5C	1/1	11-Mar-2015 1:15 PM	16-Mar-2015 11:01 AM	20-Mar-2015 2:56 PM	N
	5031310_20	NA	JW-SB/SG10	SO	JW-SB10-25	1503024-07	5032001_5C	1/1	11-Mar-2015 1:20 PM	16-Mar-2015 11:01 AM	20-Mar-2015 3:40 PM	N
	5031310_20	NA	JW-SB/SG10	SO	JW-SB10-35	1503024-08	5032001_5C	1/1	11-Mar-2015 1:40 PM	16-Mar-2015 11:01 AM	20-Mar-2015 4:24 PM	N
	5031310_20	NA	JW-SB/SG10	SO	JW-SB10-5	1503024-05	5032001_5C	1/1	11-Mar-2015 1:05 PM	16-Mar-2015 11:01 AM	20-Mar-2015 2:12 PM	N
	5031310_20	NA	JW-SB/SG17	SO	JW-SB17-0.5	1503024-09	5032001_5C	1/10	11-Mar-2015 8:45 AM	16-Mar-2015 11:01 AM	21-Mar-2015 2:35 AM	N
	5031310_20	NA	JW-SB/SG17	SO	JW-SB17-15	1503024-12	5032001_5C	1/1	11-Mar-2015 9:00 AM	16-Mar-2015 11:01 AM	20-Mar-2015 5:51 PM	N
	5031310_20	NA	JW-SB/SG17	SO	JW-SB17-2	1503024-10	5032001_5C	1/1	11-Mar-2015 8:50 AM	16-Mar-2015 11:01 AM	20-Mar-2015 5:08 PM	N
	5031310_20	NA	JW-SB/SG17	SO	JW-SB17-25	1503024-13	5032001_5C	1/1	11-Mar-2015 9:25 AM	16-Mar-2015 11:01 AM	20-Mar-2015 6:35 PM	N
	5031310_20	NA	JW-SB/SG17	SO	JW-SB17-35	1503024-14	5032001_5C	1/1	11-Mar-2015 9:35 AM	16-Mar-2015 11:01 AM	20-Mar-2015 7:19 PM	N
	5031310_20	NA	JW-SB/SG18	SO	JW-SB18-15	1503024-18	5032001_5C	1/1	11-Mar-2015 10:20 AM	16-Mar-2015 11:01 AM	21-Mar-2015 1:51 AM	N
	5031310_20	NA	JW-SB/SG18	SO	JW-SB18-16	1503024-19	5032001_5C	1/1	11-Mar-2015 10:25 AM	16-Mar-2015 11:01 AM	20-Mar-2015 9:29 PM	FD
	5031310_20	NA	JW-SB/SG18	SO	JW-SB18-2	1503024-16	5032001_5C	1/1	11-Mar-2015 10:05 AM	16-Mar-2015 11:01 AM	20-Mar-2015 8:02 PM	N
	5031310_20	NA	JW-SB/SG18	SO	JW-SB18-25	1503024-20	5032001_5C	1/1	11-Mar-2015 10:35 AM	16-Mar-2015 11:01 AM	20-Mar-2015 10:13 PM	N
	5031310_20	NA	JW-SB/SG18	SO	JW-SB18-35	1503024-21	5032001_5C	1/1	11-Mar-2015 10:45 AM	16-Mar-2015 11:01 AM	20-Mar-2015 10:57 PM	N
	5031310_20	NA	JW-SB/SG18	SO	JW-SB18-5	1503024-17	5032001_5C	1/1	11-Mar-2015 10:10 AM	16-Mar-2015 11:01 AM	20-Mar-2015 8:46 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C23003-CC	5031310_20	NA	JW-SB/SG18	SO	JW-SB18-0.5	1503024-15RE1	5032001_5C	1/10	11-Mar-2015 10:00 AM	16-Mar-2015 11:01 AM	24-Mar-2015 4:15 AM	N

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C16004-CC	5031611_20	NA	JW-SB/SG10	SO	JW-SB10-0.5	1503024-04	5031603	1/1	11-Mar-2015 12:40 PM	17-Mar-2015 3:55 AM	17-Mar-2015 8:10 AM	N
	5031611_20	NA	JW-SB/SG10	SO	JW-SB10-15	1503024-06	5031603	1/1	11-Mar-2015 1:15 PM	17-Mar-2015 3:55 AM	17-Mar-2015 9:13 AM	N
	5031611_20	NA	JW-SB/SG10	SO	JW-SB10-25	1503024-07	5031603	1/1	11-Mar-2015 1:20 PM	17-Mar-2015 3:55 AM	17-Mar-2015 9:45 AM	N
	5031611_20	NA	JW-SB/SG10	SO	JW-SB10-35	1503024-08	5031603	1/1	11-Mar-2015 1:40 PM	17-Mar-2015 3:55 AM	17-Mar-2015 10:17 AM	N
	5031611_20	NA	JW-SB/SG10	SO	JW-SB10-5	1503024-05	5031603	1/1	11-Mar-2015 1:05 PM	17-Mar-2015 3:55 AM	17-Mar-2015 8:41 AM	N
	5031611_20	NA	JW-SB/SG17	SO	JW-SB17-0.5	1503024-09	5031603	1/1	11-Mar-2015 8:45 AM	17-Mar-2015 3:55 AM	17-Mar-2015 10:49 AM	N
	5031611_20	NA	JW-SB/SG17	SO	JW-SB17-2	1503024-10	5031603	1/1	11-Mar-2015 8:50 AM	17-Mar-2015 3:55 AM	17-Mar-2015 11:20 AM	N
	5031611_20	NA	JW-SB/SG19	SO	JW-SB19-25	1503024-01	5031603	1/1	09-Mar-2015 11:15 AM	17-Mar-2015 3:55 AM	17-Mar-2015 7:06 AM	N
	5031611_20	NA	JW-SB/SG19	SO	JW-SB19-35	1503024-02	5031603	1/1	09-Mar-2015 11:30 AM	17-Mar-2015 3:55 AM	17-Mar-2015 7:38 AM	N
	5031611_20	NA	LABQC	SQ	LABQC	5031611-BLK1	5031603	1/1	17-Mar-2015 3:55 AM	17-Mar-2015 3:55 AM	17-Mar-2015 3:55 AM	LB
5C17006-CC	5031702_20	NA	JW-SB/SG17	SO	JW-SB17-15	1503024-12	5031603	1/1	11-Mar-2015 9:15 AM	17-Mar-2015 4:15 PM	17-Mar-2015 7:35 PM	N
	5031702_20	NA	JW-SB/SG17	SO	JW-SB17-25	1503024-13	5031603	1/1	11-Mar-2015 9:25 AM	17-Mar-2015 4:15 PM	17-Mar-2015 8:07 PM	N
	5031702_20	NA	JW-SB/SG17	SO	JW-SB17-35	1503024-14	5031603	1/1	11-Mar-2015 9:35 AM	17-Mar-2015 4:15 PM	17-Mar-2015 8:39 PM	N
	5031702_20	NA	JW-SB/SG17	SO	JW-SB17-5	5031702-MS1	5031603	1/1	11-Mar-2015 9:00 AM	17-Mar-2015 4:15 PM	17-Mar-2015 6:31 PM	MS
	5031702_20	NA	JW-SB/SG17	SO	JW-SB17-5	1503024-11	5031603	1/1	11-Mar-2015 9:00 AM	17-Mar-2015 4:15 PM	17-Mar-2015 5:59 PM	N
	5031702_20	NA	JW-SB/SG17	SO	JW-SB17-5	5031702-MSD1	5031603	1/1	11-Mar-2015 9:00 AM	17-Mar-2015 4:15 PM	17-Mar-2015 7:03 PM	SD
	5031702_20	NA	JW-SB/SG18	SO	JW-SB18-0.5	1503024-15	5031603	1/1	11-Mar-2015 10:00 AM	17-Mar-2015 4:15 PM	17-Mar-2015 9:11 PM	N
	5031702_20	NA	JW-SB/SG18	SO	JW-SB18-15	1503024-18	5031603	1/1	11-Mar-2015 10:20 AM	17-Mar-2015 4:15 PM	17-Mar-2015 10:46 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C17006-CC	5031702_20	NA	JW-SB/SG18	SO	JW-SB18-16	1503024-19	5031603	1/1	11-Mar-2015 10:25 AM	17-Mar-2015 4:15 PM	17-Mar-2015 11:17 PM	FD
	5031702_20	NA	JW-SB/SG18	SO	JW-SB18-2	1503024-16	5031603	1/1	11-Mar-2015 10:05 AM	17-Mar-2015 4:15 PM	17-Mar-2015 9:42 PM	N
	5031702_20	NA	JW-SB/SG18	SO	JW-SB18-25	1503024-20	5031603	1/1	11-Mar-2015 10:35 AM	17-Mar-2015 4:15 PM	17-Mar-2015 11:49 PM	N
	5031702_20	NA	JW-SB/SG18	SO	JW-SB18-35	1503024-21	5031603	1/1	11-Mar-2015 10:45 AM	17-Mar-2015 4:15 PM	18-Mar-2015 12:21 AM	N
	5031702_20	NA	JW-SB/SG18	SO	JW-SB18-5	1503024-17	5031603	1/1	11-Mar-2015 10:10 AM	17-Mar-2015 4:15 PM	17-Mar-2015 10:14 PM	N
	5031702_20	NA	LABQC	SQ	LABQC	1503024-03	5031603	1/1	17-Mar-2015 4:15 PM	17-Mar-2015 4:15 PM	18-Mar-2015 12:53 AM	LB
	5031702_20	NA	LABQC	SQ	LABQC	5031702-BLK1	5031603	1/1	17-Mar-2015 4:15 PM	17-Mar-2015 4:15 PM	17-Mar-2015 4:15 PM	LB

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
016e5C1800	5031311_20	NA	JW-SB/SG10	SO	JW-SB10-0.5	1503024-04	5031901_5C	1/1	11-Mar-2015 12:40 PM	16-Mar-2015 4:13 PM	19-Mar-2015 3:27 AM	N
	5031311_20	NA	JW-SB/SG10	SO	JW-SB10-15	1503024-06	5031901_5C	1/1	11-Mar-2015 1:15 PM	16-Mar-2015 4:13 PM	19-Mar-2015 4:28 AM	N
	5031311_20	NA	JW-SB/SG10	SO	JW-SB10-25	1503024-07	5031901_5C	1/1	11-Mar-2015 1:20 PM	16-Mar-2015 4:13 PM	19-Mar-2015 4:59 AM	N
	5031311_20	NA	JW-SB/SG10	SO	JW-SB10-35	1503024-08	5031901_5C	1/1	11-Mar-2015 1:40 PM	16-Mar-2015 4:13 PM	19-Mar-2015 5:29 AM	N
	5031311_20	NA	JW-SB/SG10	SO	JW-SB10-5	1503024-05	5031901_5C	1/1	11-Mar-2015 1:05 PM	16-Mar-2015 4:13 PM	19-Mar-2015 3:58 AM	N
	5031311_20	NA	JW-SB/SG17	SO	JW-SB17-0.5	1503024-09	5031901_5C	1/1	11-Mar-2015 8:45 AM	16-Mar-2015 4:13 PM	19-Mar-2015 5:59 AM	N
	5031311_20	NA	JW-SB/SG17	SO	JW-SB17-5	5031311-MS1	5031901_5C	1/1	11-Mar-2015 9:00 AM	16-Mar-2015 4:13 PM	19-Mar-2015 1:26 AM	MS
	5031311_20	NA	JW-SB/SG17	SO	JW-SB17-5	5031311-MSD1	5031901_5C	1/1	11-Mar-2015 9:00 AM	16-Mar-2015 4:13 PM	19-Mar-2015 1:56 AM	SD
	5031311_20	NA	JW-SB/SG19	SO	JW-SB19-25	1503024-01	5031901_5C	1/1	09-Mar-2015 11:15 AM	16-Mar-2015 4:13 PM	19-Mar-2015 2:27 AM	N
	5031311_20	NA	JW-SB/SG19	SO	JW-SB19-35	1503024-02	5031901_5C	1/1	09-Mar-2015 11:30 AM	16-Mar-2015 4:13 PM	19-Mar-2015 2:57 AM	N
	5031311_20	NA	LABQC	SQ	LABQC	5031311-BS1	5031901_5C	1/1	16-Mar-2015 4:13 PM	16-Mar-2015 4:13 PM	19-Mar-2015 12:55 AM	BS
	5031311_20	NA	LABQC	SQ	LABQC	5031311-BLK1	5031901_5C	1/1	16-Mar-2015 4:13 PM	16-Mar-2015 4:13 PM	18-Mar-2015 11:54 PM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
036e5C1800	5031311_20	NA	JW-SB/SG17	SO	JW-SB17-15	1503024-12	5031901_5C	1/1	11-Mar-2015 9:15 AM	16-Mar-2015 4:13 PM	19-Mar-2015 11:08 AM	N
	5031311_20	NA	JW-SB/SG17	SO	JW-SB17-2	1503024-10	5031901_5C	1/1	11-Mar-2015 8:50 AM	16-Mar-2015 4:13 PM	19-Mar-2015 10:09 AM	N
	5031311_20	NA	JW-SB/SG17	SO	JW-SB17-25	1503024-13	5031901_5C	1/1	11-Mar-2015 9:25 AM	16-Mar-2015 4:13 PM	19-Mar-2015 11:38 AM	N
	5031311_20	NA	JW-SB/SG17	SO	JW-SB17-35	1503024-14	5031901_5C	1/1	11-Mar-2015 9:35 AM	16-Mar-2015 4:13 PM	19-Mar-2015 12:09 PM	N
	5031311_20	NA	JW-SB/SG17	SO	JW-SB17-5	1503024-11	5031901_5C	1/1	11-Mar-2015 9:00 AM	16-Mar-2015 4:13 PM	19-Mar-2015 10:38 AM	N
	5031311_20	NA	JW-SB/SG18	SO	JW-SB18-0.5	1503024-15	5031901_5C	1/1	11-Mar-2015 10:00 AM	16-Mar-2015 4:13 PM	19-Mar-2015 12:39 PM	N
	5031311_20	NA	JW-SB/SG18	SO	JW-SB18-15	1503024-18	5031901_5C	1/1	11-Mar-2015 10:20 AM	16-Mar-2015 4:13 PM	19-Mar-2015 2:11 PM	N
	5031311_20	NA	JW-SB/SG18	SO	JW-SB18-16	1503024-19	5031901_5C	1/1	11-Mar-2015 10:25 AM	16-Mar-2015 4:13 PM	19-Mar-2015 2:41 PM	FD
	5031311_20	NA	JW-SB/SG18	SO	JW-SB18-2	1503024-16	5031901_5C	1/1	11-Mar-2015 10:05 AM	16-Mar-2015 4:13 PM	19-Mar-2015 1:10 PM	N
	5031311_20	NA	JW-SB/SG18	SO	JW-SB18-25	1503024-20	5031901_5C	1/1	11-Mar-2015 10:35 AM	16-Mar-2015 4:13 PM	19-Mar-2015 3:11 PM	N
	5031311_20	NA	JW-SB/SG18	SO	JW-SB18-35	1503024-21	5031901_5C	1/1	11-Mar-2015 10:45 AM	16-Mar-2015 4:13 PM	19-Mar-2015 3:42 PM	N
	5031311_20	NA	JW-SB/SG18	SO	JW-SB18-5	1503024-17	5031901_5C	1/1	11-Mar-2015 10:10 AM	16-Mar-2015 4:13 PM	19-Mar-2015 1:40 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CSVOL12 / SW3550B	Surrogate	JW-SB17-0.5 (N)	1 / 10.00	Anthracene-d10	113	Percent	J/None	22 - 98	10 - 120	S	Diluted Out	2.00	
CSVOL12 / SW3550B	Surrogate	JW-SB18-0.5 (N)	1 / 10.00	2,4-Dichlorophenol-d3	12.7	Percent	J/UJ	23 - 104	10 - 120	S	Diluted Out	2.00	
CSVOL12 / SW3550B	Surrogate	JW-SB18-0.5 (N)	1 / 10.00	4-Nitrophenol-d4	7.33	Percent	J/R	16 - 166	10 - 177	S	Diluted Out	2.00	
CSVOL12 / SW3550B	Surrogate	JW-SB18-0.5 (N)	1 / 10.00	Benzo(a)pyrene-d12	28.7	Percent	J/UJ	43 - 111	10 - 120	S	Diluted Out	2.00	
CSVOL12 / SW3550B	Surrogate	JW-SB18-0.5 (N)	1 / 10.00	Dimethylphthalate-d6	28.7	Percent	J/UJ	43 - 111	10 - 120	S	Diluted Out	2.00	
CSVOL12 / SW3550B	Surrogate	JW-SB18-0.5 (N)	1 / 10.00	Fluorene-d10	34.0	Percent	J/UJ	40 - 108	10 - 120	S	Diluted Out	2.00	
CSVOL12 / SW3550B	Surrogate	JW-SB18-0.5 (N)	1 / 10.00	Pyrene-d10	28.0	Percent	J/UJ	51 - 120	10 - 130	S	Diluted Out	2.00	
CVOL / METHOD	Blank	1503024-03 (LB)	1 / 1.00	Methylene Chloride	0.790	ug/kg	U/None	< 0.63	< 5	B1		2	1.58
CVOL / METHOD	Blank	5031611-BLK1 (LB)	1 / 1.00	Acetone	4.00	ug/kg	U/None	< 3	< 10	B1		2	8.00
CVOL / METHOD	Blank	5031611-BLK1 (LB)	1 / 1.00	Toluene	0.540	ug/kg	U/None	< 0.42	< 5	B1		1	0.540
CVOL / METHOD	Blank	5031702-BLK1 (LB)	1 / 1.00	Methylene Chloride	1.30	ug/kg	U/None	< 0.63	< 5	B1		2	2.60
CVOL / METHOD	Surrogate	JW-SB10-0.5 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	0.300	PERCENT	J/R	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB10-0.5 (N)	1 / 1.00	2-Hexanone-d5	61.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB10-0.5 (N)	1 / 1.00	Chloroform-d	26.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB10-25 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	58.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB10-25 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB10-25 (N)	1 / 1.00	1,4-Dioxane-d8	59.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB17-0.5 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	68.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB17-0.5 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	62.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB17-0.5 (N)	1 / 1.00	1,4-Dioxane-d8	65.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB17-25 (N)	1 / 1.00	1,4-Dioxane-d8	67.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB18-0.5 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	52.0	PERCENT	J/UJ	70 - 130	20 - 140	S			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Surrogate	JW-SB18-15 (N)	1 / 1.00	1,4-Dioxane-d8	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB19-25 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	52.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB19-25 (N)	1 / 1.00	1,4-Dioxane-d8	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB19-35 (N)	1 / 1.00	1,2-Dichloroethane-d4	140	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB19-35 (N)	1 / 1.00	1,2-Dichloropropane-d6	134	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB19-35 (N)	1 / 1.00	2-Butanone-d5	150	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB19-35 (N)	1 / 1.00	2-Hexanone-d5	140	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB19-35 (N)	1 / 1.00	Benzene-d6	134	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB19-35 (N)	1 / 1.00	Chloroethane-d5	140	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB19-35 (N)	1 / 1.00	Toluene-d8	134	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB19-35 (N)	1 / 1.00	Vinyl Chloride-d3	132	PERCENT	J/None	70 - 130	20 - 140	S			
SW8082 / SW3550B	Surrogate	JW-SB10-5 (N)	1 / 1.00	Decachlorobiphenyl	20.0	Percent	J/UJ	30 - 150	20 - 160	S			
SW8082 / SW3550B	Surrogate	JW-SB17-5 (MS)	1 / 1.00	Decachlorobiphenyl	22.3	Percent	J/UJ	30 - 150	20 - 160	S			
SW8082 / SW3550B	Surrogate	JW-SB17-5 (SD)	1 / 1.00	Decachlorobiphenyl	27.5	Percent	J/UJ	30 - 150	20 - 160	S			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB10-0.5	N	2,4-Dinitrophenol	350	350 U	350 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB10-0.5	N	bis(2-Ethylhexyl) Phthalate	180	140 J	140 J	ug/kg	I/TR
CSVOL12/NONE	SO	JW-SB10-0.5	N	Pentachlorophenol	350	350 U	350 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB10-15	N	2,4-Dinitrophenol	420	420 U	420 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB10-15	N	Pentachlorophenol	420	420 U	420 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB10-25	N	2,4-Dinitrophenol	420	420 U	420 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB10-25	N	Pentachlorophenol	420	420 U	420 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB10-35	N	2,4-Dinitrophenol	350	350 U	350 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB10-35	N	Pentachlorophenol	350	350 U	350 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB10-5	N	2,4-Dinitrophenol	360	360 U	360 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB10-5	N	Pentachlorophenol	360	360 U	360 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-0.5	N	2,4-Dinitrophenol	3700	3700 U	3700 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-0.5	N	Pentachlorophenol	3700	3700 U	3700 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-15	N	2,4-Dinitrophenol	420	420 U	420 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-15	N	Pentachlorophenol	420	420 U	420 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-2	N	2,4-Dinitrophenol	350	350 U	350 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-2	N	Pentachlorophenol	350	350 U	350 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-25	N	2,4-Dinitrophenol	430	430 U	430 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-25	N	Pentachlorophenol	430	430 U	430 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-35	N	2,4-Dinitrophenol	350	350 U	350 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-35	N	bis(2-Ethylhexyl) Phthalate	180	170 J	170 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB17-35	N	Pentachlorophenol	350	350 U	350 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-5	N	2,4-Dinitrophenol	360	360 U	360 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB17-5	N	Pentachlorophenol	360	360 U	360 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-0.5	N	2,4-Dinitrophenol	3700	3700 U	3700 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-0.5	N	Pentachlorophenol	3700	3700 U	3700 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-15	N	2,4-Dinitrophenol	370	370 U	370 UJ	ug/kg	C11

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB18-15	N	Pentachlorophenol	370	370 U	370 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-16	FD	2,4-Dinitrophenol	410	410 U	410 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-16	FD	Pentachlorophenol	410	410 U	410 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-2	N	2,4-Dinitrophenol	380	380 U	380 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-2	N	Fluoranthene	200	46.0 J	46.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB18-2	N	Pentachlorophenol	380	380 U	380 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-25	N	2,4-Dinitrophenol	430	430 U	430 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-25	N	Pentachlorophenol	430	430 U	430 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-35	N	2,4-Dinitrophenol	350	350 U	350 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-35	N	Pentachlorophenol	350	350 U	350 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-5	N	2,4-Dinitrophenol	370	370 U	370 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB18-5	N	Pentachlorophenol	370	370 U	370 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB19-25	N	2,4-Dinitrophenol	390	390 U	390 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB19-25	N	Pentachlorophenol	390	390 U	390 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB19-35	N	2,4-Dinitrophenol	360	360 U	360 UJ	ug/kg	C11

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB10-0.5	N	1,1,2,2-Tetrachloroethane	4.8	4.8 U	4.8 R	ug/kg	S
CVOL/NONE	SO	JW-SB10-0.5	N	1,1-Dichloroethane	4.8	4.8 U	4.8 R	ug/kg	S
CVOL/NONE	SO	JW-SB10-0.5	N	1,2-Dibromo-3-chloropropane	4.8	4.8 U	4.8 R	ug/kg	S
CVOL/NONE	SO	JW-SB10-0.5	N	1,4-Dioxane (p-Dioxane)	97.0	97.0 U	97.0 R	ug/kg	G
CVOL/NONE	SO	JW-SB10-0.5	N	Bromochloromethane	4.8	4.8 U	4.8 R	ug/kg	S
CVOL/NONE	SO	JW-SB10-0.5	N	Bromoform	4.8	4.8 U	4.8 R	ug/kg	S
CVOL/NONE	SO	JW-SB10-0.5	N	Chloroform	4.8	38.0	38.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB10-15	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G
CVOL/NONE	SO	JW-SB10-15	N	Tetrachloroethene (PCE)	5.6	3.1 J	3.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB10-25	N	1,1,2,2-Tetrachloroethane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB10-25	N	1,2,3-Trichlorobenzene	5.3	5.3 U	5.3 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB10-25	N	1,2,4-Trichlorobenzene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB10-25	N	1,2-Dibromo-3-chloropropane	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB10-25	N	1,2-Dichlorobenzene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB10-25	N	1,3-Dichlorobenzene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB10-25	N	1,4-Dichlorobenzene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB10-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G
CVOL/NONE	SO	JW-SB10-25	N	Chlorobenzene	5.3	5.3 U	5.3 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB10-25	N	Tetrachloroethene (PCE)	5.3	1.9 J	1.9 J	ug/kg	TR
CVOL/NONE	SO	JW-SB10-35	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G
CVOL/NONE	SO	JW-SB10-35	N	Chloroform	5.1	2.5 J	2.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB10-5	N	1,4-Dioxane (p-Dioxane)	95.0	95.0 U	95.0 R	ug/kg	G
CVOL/NONE	SO	JW-SB17-0.5	N	1,2,3-Trichlorobenzene	5.1	5.1 U	5.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB17-0.5	N	1,2,4-Trichlorobenzene	5.1	5.1 U	5.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB17-0.5	N	1,2-Dichlorobenzene	5.1	5.1 U	5.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB17-0.5	N	1,3-Dichlorobenzene	5.1	5.1 U	5.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB17-0.5	N	1,4-Dichlorobenzene	5.1	5.1 U	5.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB17-0.5	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G
CVOL/NONE	SO	JW-SB17-0.5	N	Chlorobenzene	5.1	5.1 U	5.1 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB17-15	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G
CVOL/NONE	SO	JW-SB17-15	N	Acetone	10.0	8.2 J	8.2 J	ug/kg	TR
CVOL/NONE	SO	JW-SB17-15	N	Trichloroethene (TCE)	5.1	1.4 J	1.4 J	ug/kg	TR
CVOL/NONE	SO	JW-SB17-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	120 R	ug/kg	G
CVOL/NONE	SO	JW-SB17-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G
CVOL/NONE	SO	JW-SB17-25	N	Acetone	11.0	7.7 J	7.7 J	ug/kg	TR
CVOL/NONE	SO	JW-SB17-35	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G
CVOL/NONE	SO	JW-SB17-35	N	Acetone	11.0	7.5 J	7.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB17-5	N	1,4-Dioxane (p-Dioxane)	96.0	96.0 U	96.0 R	ug/kg	G

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB17-5	N	Acetone	9.6	8.1 J	8.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-0.5	N	1,2,3-Trichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB18-0.5	N	1,2,4-Trichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB18-0.5	N	1,2-Dichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB18-0.5	N	1,3-Dichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB18-0.5	N	1,4-Dichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB18-0.5	N	1,4-Dioxane (p-Dioxane)	97.0	97.0 U	97.0 R	ug/kg	G
CVOL/NONE	SO	JW-SB18-0.5	N	Chlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB18-0.5	N	Toluene	4.9	0.76 J	0.76 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-15	N	1,4-Dioxane (p-Dioxane)	94.0	94.0 U	94.0 R	ug/kg	G
CVOL/NONE	SO	JW-SB18-15	N	Acetone	9.4	8.1 J	8.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-16	FD	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G
CVOL/NONE	SO	JW-SB18-16	FD	Acetone	11.0	10.0 J	10.0 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	120 R	ug/kg	G
CVOL/NONE	SO	JW-SB18-2	N	Acetone	12.0	11.0 J	11.0 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G
CVOL/NONE	SO	JW-SB18-25	N	Acetone	11.0	7.7 J	7.7 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-25	N	Tetrachloroethene (PCE)	5.5	1.7 J	1.7 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-35	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G
CVOL/NONE	SO	JW-SB18-35	N	Acetone	11.0	7.1 J	7.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-35	N	Chloroform	5.5	3.1 J	3.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-5	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G
CVOL/NONE	SO	JW-SB18-5	N	Acetone	11.0	9.0 J	9.0 J	ug/kg	TR
CVOL/NONE	SO	JW-SB19-25	N	1,1,2,2-Tetrachloroethane	4.8	4.8 U	4.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB19-25	N	1,2-Dibromo-3-chloropropane	4.8	4.8 U	4.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB19-25	N	1,4-Dioxane (p-Dioxane)	96.0	96.0 U	96.0 R	ug/kg	G
CVOL/NONE	SO	JW-SB19-35	N	1,4-Dioxane (p-Dioxane)	130	130 U	130 R	ug/kg	G

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB19-35	N	Chloroform	6.7	5.1 J	5.1 J	ug/kg	S/TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	JW-SB10-5	N	PCB-1016 (Arochlor 1016)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB10-5	N	PCB-1221 (Arochlor 1221)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB10-5	N	PCB-1232 (Arochlor 1232)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB10-5	N	PCB-1242 (Arochlor 1242)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB10-5	N	PCB-1248 (Arochlor 1248)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB10-5	N	PCB-1254 (Arochlor 1254)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB10-5	N	PCB-1260 (Arochlor 1260)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB10-5	N	PCB-1262 (Arochlor 1262)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB10-5	N	PCB-1268 (Arochlor 1268)	36.0	36.0 U	36.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB18-2	N	PCB-1016 (Arochlor 1016)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB18-2	N	PCB-1221 (Arochlor 1221)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB18-2	N	PCB-1232 (Arochlor 1232)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB18-2	N	PCB-1242 (Arochlor 1242)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB18-2	N	PCB-1248 (Arochlor 1248)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB18-2	N	PCB-1254 (Arochlor 1254)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB18-2	N	PCB-1260 (Arochlor 1260)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB18-2	N	PCB-1262 (Arochlor 1262)	38.0	38.0 U	38.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB18-2	N	PCB-1268 (Arochlor 1268)	38.0	38.0 U	38.0 UJ	ug/kg	S

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB10-0.5	N	bis(2-Ethylhexyl) Phthalate	180	140 J	140 J	ug/kg	I/TR
CSVOL12/NONE	SO	JW-SB17-35	N	bis(2-Ethylhexyl) Phthalate	180	170 J	170 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB18-2	N	Fluoranthene	200	46.0 J	46.0 J	ug/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB10-0.5	N	Trichloroethene (TCE)	4.8	8.5	8.5 J	ug/kg	
CVOL/NONE	SO	JW-SB10-0.5	N	Chloroform	4.8	38.0	38.0 J	ug/kg	S
CVOL/NONE	SO	JW-SB10-15	N	Tetrachloroethene (PCE)	5.6	3.1 J	3.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB10-25	N	Tetrachloroethene (PCE)	5.3	1.9 J	1.9 J	ug/kg	TR
CVOL/NONE	SO	JW-SB10-35	N	Chloroform	5.1	2.5 J	2.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB17-0.5	N	Tetrachloroethene (PCE)	5.1	7.3	7.3	ug/kg	
CVOL/NONE	SO	JW-SB17-15	N	Acetone	10.0	8.2 J	8.2 J	ug/kg	TR
CVOL/NONE	SO	JW-SB17-15	N	Tetrachloroethene (PCE)	5.1	6.1	6.1	ug/kg	
CVOL/NONE	SO	JW-SB17-15	N	Trichloroethene (TCE)	5.1	1.4 J	1.4 J	ug/kg	TR
CVOL/NONE	SO	JW-SB17-25	N	Acetone	11.0	7.7 J	7.7 J	ug/kg	TR
CVOL/NONE	SO	JW-SB17-25	N	Tetrachloroethene (PCE)	5.3	7.0	7.0	ug/kg	
CVOL/NONE	SO	JW-SB17-35	N	Acetone	11.0	7.5 J	7.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB17-5	N	Acetone	9.6	8.1 J	8.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-0.5	N	Acetone	9.7	9.9	9.9	ug/kg	
CVOL/NONE	SO	JW-SB18-0.5	N	Toluene	4.9	0.76 J	0.76 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-15	N	Acetone	9.4	8.1 J	8.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-16	FD	Acetone	11.0	10.0 J	10.0 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-2	N	Acetone	12.0	11.0 J	11.0 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-25	N	Acetone	11.0	7.7 J	7.7 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-25	N	Tetrachloroethene (PCE)	5.5	1.7 J	1.7 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-35	N	Acetone	11.0	7.1 J	7.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB18-35	N	Chloroform	5.5	3.1 J	3.1 J	ug/kg	TR

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB18-5	N	Acetone	11.0	9.0 J	9.0 J	ug/kg	TR
CVOL/NONE	SO	JW-SB19-35	N	Chloroform	6.7	5.1 J	5.1 J	ug/kg	S/TR

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB10-0.5	N	Bromochloromethane	4.8	4.8 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB10-0.5	N	1,2-Dibromo-3-chloropropane	4.8	4.8 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB10-0.5	N	1,1-Dichloroethane	4.8	4.8 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB10-0.5	N	1,4-Dioxane (p-Dioxane)	97.0	97.0 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB10-0.5	N	1,1,2,2-Tetrachloroethane	4.8	4.8 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB10-0.5	N	Bromoform	4.8	4.8 U	R	ug/kg	S
CVOL/NONE	SO	JW-SB10-15	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB10-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB10-35	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB10-5	N	1,4-Dioxane (p-Dioxane)	95.0	95.0 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB17-0.5	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB17-15	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB17-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB17-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB17-35	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB17-5	N	1,4-Dioxane (p-Dioxane)	96.0	96.0 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB18-0.5	N	1,4-Dioxane (p-Dioxane)	97.0	97.0 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB18-15	N	1,4-Dioxane (p-Dioxane)	94.0	94.0 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB18-16	FD	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB18-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB18-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB18-35	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB18-5	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB19-25	N	1,4-Dioxane (p-Dioxane)	96.0	96.0 U	R	ug/kg	G
CVOL/NONE	SO	JW-SB19-35	N	1,4-Dioxane (p-Dioxane)	130	130 U	R	ug/kg	G

AUTOMATED DATA REVIEW SUMMARY for Y9SX3

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: Liberty Analytical Corporation
Field Contractor: Gilbane Company, Walnut Creek, CA
Data Review Contractor: Gilbane

SDG: Y9SY1, Certified - 4/13/2015 by wtse
QC Level: S2BVEM (Tier 1B)
Project Manager: Peter Phillips

Data Reviewer: Tom Beer
Data Reviewer Title: Project Chemist
Date of Review Report: August 10, 2015
Second Reviewer:
Completion Date of Second Reviewer:

Samples Included in SDG Y9SY1

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
CSVOL12/NONE	18	2
CVOL/NONE	18	2
SW8082/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by Liberty Analytical Corporation and were reported under sample delivery group (SDG) Y9SY1. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 76 results (2.95%) out of the 2580 results (sample and field QC samples) reported are qualified based on review and 20 results (0.78%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

A COC date anomaly was noted but no data qualification are required.

Data qualifiers were added for initial (G) and continuing (C10) calibration anomalies, one field duplicate analyte pair imprecision (D5), and poor surrogate (S) and matrix spike (M) recoveries.

All 1,4-dioxane results by CVOL were rejected but the analysis by SVOL are all acceptable.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 10:41:33 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C31007-CC	5032106_20	NA	JW-SB/SG21	SO	JW-SB21-0.5	5032106-MS1	5032001_5C	1/1	17-Mar-2015 10:45 AM	26-Mar-2015 8:58 AM	31-Mar-2015 11:28 PM	MS
	5032106_20	NA	JW-SB/SG21	SO	JW-SB21-0.5	1503063-01	5032001_5C	1/1	17-Mar-2015 10:45 AM	26-Mar-2015 8:58 AM	01-Apr-2015 9:10 AM	N
	5032106_20	NA	JW-SB/SG21	SO	JW-SB21-0.5	5032106-MSD1	5032001_5C	1/1	17-Mar-2015 10:45 AM	26-Mar-2015 8:58 AM	01-Apr-2015 12:11 AM	SD
	5032106_20	NA	JW-SB/SG21	SO	JW-SB21-15	1503063-05	5032001_5C	1/1	17-Mar-2015 11:30 AM	26-Mar-2015 8:58 AM	01-Apr-2015 3:06 AM	N
	5032106_20	NA	JW-SB/SG21	SO	JW-SB21-2	1503063-02	5032001_5C	1/1	17-Mar-2015 11:15 AM	26-Mar-2015 8:58 AM	01-Apr-2015 12:55 AM	N
	5032106_20	NA	JW-SB/SG21	SO	JW-SB21-25	1503063-06	5032001_5C	1/1	17-Mar-2015 11:00 AM	26-Mar-2015 8:58 AM	01-Apr-2015 3:50 AM	N
	5032106_20	NA	JW-SB/SG21	SO	JW-SB21-35	1503063-07	5032001_5C	1/1	17-Mar-2015 11:05 AM	26-Mar-2015 8:58 AM	01-Apr-2015 4:33 AM	N
	5032106_20	NA	JW-SB/SG21	SO	JW-SB21-5	1503063-03	5032001_5C	1/1	17-Mar-2015 10:50 AM	26-Mar-2015 8:58 AM	01-Apr-2015 9:53 AM	N
	5032106_20	NA	JW-SB/SG21	SO	JW-SB21-6	1503063-04	5032001_5C	1/1	17-Mar-2015 11:20 AM	26-Mar-2015 8:58 AM	01-Apr-2015 2:22 AM	FD
	5032106_20	NA	LABQC	SQ	LABQC	5032106-BLK1	5032001_5C	1/1	26-Mar-2015 8:58 AM	26-Mar-2015 8:58 AM	31-Mar-2015 10:00 PM	LB
5C31011-CC	5032106_20	NA	JW-SB/SG20	SO	JW-SB20-2	1503063-17	5033110_5C	1/1	18-Mar-2015 8:15 AM	26-Mar-2015 8:58 AM	31-Mar-2015 9:26 PM	N
	5032106_20	NA	JW-SB/SG20	SO	JW-SB20-5	1503063-18	5033110_5C	1/1	18-Mar-2015 8:20 AM	26-Mar-2015 8:58 AM	31-Mar-2015 10:11 PM	N
	5032106_20	NA	JW-SB/SG24	SO	JW-SB24-15	1503063-11	5033110_5C	1/1	17-Mar-2015 9:00 AM	26-Mar-2015 8:58 AM	31-Mar-2015 5:43 PM	N
	5032106_20	NA	JW-SB/SG24	SO	JW-SB24-25	1503063-12	5033110_5C	1/1	17-Mar-2015 9:05 AM	26-Mar-2015 8:58 AM	31-Mar-2015 6:28 PM	N
	5032106_20	NA	JW-SB/SG24	SO	JW-SB24-35	1503063-14	5033110_5C	1/1	17-Mar-2015 9:20 AM	26-Mar-2015 8:58 AM	31-Mar-2015 7:57 PM	N
	5032106_20	NA	LABQC	SQ	LABQC	5032106-BLK2	5033110_5C	1/1	26-Mar-2015 8:58 AM	26-Mar-2015 8:58 AM	31-Mar-2015 4:59 PM	LB
5D01001-CC	5032106_20	NA	JW-SB/SG20	SO	JW-SB20-0.5	1503063-16	5033110_5C	1/1	18-Mar-2015 8:10 AM	26-Mar-2015 8:58 AM	01-Apr-2015 2:04 PM	N
	5032106_20	NA	JW-SB/SG20	SO	JW-SB20-15	1503063-19	5033110_5C	1/1	18-Mar-2015 8:30 AM	26-Mar-2015 8:58 AM	01-Apr-2015 2:48 PM	N
	5032106_20	NA	JW-SB/SG20	SO	JW-SB20-25	1503063-20	5033110_5C	1/1	18-Mar-2015 8:35 AM	26-Mar-2015 8:58 AM	01-Apr-2015 3:32 PM	N
	5032106_20	NA	JW-SB/SG20	SO	JW-SB20-35	1503063-21	5033110_5C	1/1	18-Mar-2015 8:40 AM	26-Mar-2015 8:58 AM	01-Apr-2015 4:17 PM	N
	5032106_20	NA	JW-SB/SG24	SO	JW-SB24-0.5	1503063-08	5033110_5C	1/1	17-Mar-2015 8:30 AM	26-Mar-2015 8:58 AM	01-Apr-2015 6:30 PM	N
	5032106_20	NA	JW-SB/SG24	SO	JW-SB24-2	1503063-09	5033110_5C	1/1	17-Mar-2015 8:45 AM	26-Mar-2015 8:58 AM	01-Apr-2015 5:45 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5D01001-CC	5032106_20	NA	JW-SB/SG24	SO	JW-SB24-26	1503063-13	5033110_5C	1/1	17-Mar-2015 9:10 AM	26-Mar-2015 8:58 AM	01-Apr-2015 1:19 PM	FD
	5032106_20	NA	JW-SB/SG24	SO	JW-SB24-5	1503063-10	5033110_5C	1/1	17-Mar-2015 8:50 AM	26-Mar-2015 8:58 AM	01-Apr-2015 5:01 PM	N

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C25003-CC	5032510_20	NA	JW-SB/SG21	SO	JW-SB21-2	1503063-02	5032503	1/1	17-Mar-2015 10:50 AM	26-Mar-2015 3:07 AM	26-Mar-2015 11:01 AM	N
	5032510_20	NA	LABQC	SQ	LABQC	5032510-BLK1	5032503	1/1	26-Mar-2015 3:07 AM	26-Mar-2015 3:07 AM	26-Mar-2015 3:07 AM	LB
5C27002-CC	5032711_20	NA	JW-SB/SG20	SO	JW-SB20-0.5	1503063-16	5032705	1/1	18-Mar-2015 8:10 AM	27-Mar-2015 7:23 PM	28-Mar-2015 4:22 AM	N
	5032711_20	NA	JW-SB/SG21	SO	JW-SB21-0.5	5032711-MS1	5032705	1/1	17-Mar-2015 10:45 AM	27-Mar-2015 7:23 PM	27-Mar-2015 11:05 PM	MS
	5032711_20	NA	JW-SB/SG21	SO	JW-SB21-0.5	1503063-01	5032705	1/1	17-Mar-2015 10:45 AM	27-Mar-2015 7:23 PM	27-Mar-2015 10:34 PM	N
	5032711_20	NA	JW-SB/SG21	SO	JW-SB21-0.5	5032711-MSD1	5032705	1/1	17-Mar-2015 10:45 AM	27-Mar-2015 7:23 PM	27-Mar-2015 11:37 PM	SD
	5032711_20	NA	JW-SB/SG21	SO	JW-SB21-15	1503063-05	5032705	1/1	17-Mar-2015 11:15 AM	27-Mar-2015 7:23 PM	28-Mar-2015 1:44 AM	N
	5032711_20	NA	JW-SB/SG21	SO	JW-SB21-25	1503063-06	5032705	1/1	17-Mar-2015 11:20 AM	27-Mar-2015 7:23 PM	28-Mar-2015 2:16 AM	N
	5032711_20	NA	JW-SB/SG21	SO	JW-SB21-35	1503063-07	5032705	1/1	17-Mar-2015 11:30 AM	27-Mar-2015 7:23 PM	28-Mar-2015 2:47 AM	N
	5032711_20	NA	JW-SB/SG21	SO	JW-SB21-5	1503063-03	5032705	1/1	17-Mar-2015 11:00 AM	27-Mar-2015 7:23 PM	28-Mar-2015 12:41 AM	N
	5032711_20	NA	JW-SB/SG21	SO	JW-SB21-6	1503063-04	5032705	1/1	17-Mar-2015 11:05 AM	27-Mar-2015 7:23 PM	28-Mar-2015 1:12 AM	FD
	5032711_20	NA	JW-SB/SG24	SO	JW-SB24-2	1503063-09	5032705	1/1	17-Mar-2015 8:45 AM	27-Mar-2015 7:23 PM	27-Mar-2015 8:27 PM	N
	5032711_20	NA	JW-SB/SG24	SO	JW-SB24-25	1503063-12	5032705	1/1	17-Mar-2015 9:05 AM	27-Mar-2015 7:23 PM	27-Mar-2015 10:02 PM	N
	5032711_20	NA	JW-SB/SG24	SO	JW-SB24-26	1503063-13	5032705	1/1	17-Mar-2015 9:10 AM	27-Mar-2015 7:23 PM	28-Mar-2015 3:19 AM	FD
	5032711_20	NA	JW-SB/SG24	SO	JW-SB24-35	1503063-14	5032705	1/1	17-Mar-2015 9:20 AM	27-Mar-2015 7:23 PM	28-Mar-2015 3:51 AM	N
	5032711_20	NA	JW-SB/SG24	SO	JW-SB24-5	1503063-10	5032705	1/1	17-Mar-2015 8:50 AM	27-Mar-2015 7:23 PM	27-Mar-2015 8:58 PM	N
	5032711_20	NA	LABQC	SQ	LABQC	5032711-BLK1	5032705	1/1	27-Mar-2015 7:23 PM	27-Mar-2015 7:23 PM	27-Mar-2015 7:23 PM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C27002-CC	5032713_20	NA	JW-SB/SG20	SO	JW-SB20-15	1503063-19	5032705	1/1	18-Mar-2015 8:30 AM	28-Mar-2015 7:00 AM	28-Mar-2015 9:39 AM	N
	5032713_20	NA	JW-SB/SG20	SO	JW-SB20-2	1503063-17	5032705	1/1	18-Mar-2015 8:15 AM	28-Mar-2015 7:00 AM	28-Mar-2015 8:35 AM	N
	5032713_20	NA	JW-SB/SG20	SO	JW-SB20-25	1503063-20	5032705	1/1	18-Mar-2015 8:35 AM	28-Mar-2015 7:00 AM	28-Mar-2015 10:10 AM	N
	5032713_20	NA	JW-SB/SG20	SO	JW-SB20-35	1503063-21	5032705	1/1	18-Mar-2015 8:40 AM	28-Mar-2015 7:00 AM	28-Mar-2015 10:42 AM	N
	5032713_20	NA	JW-SB/SG20	SO	JW-SB20-5	1503063-18	5032705	1/1	18-Mar-2015 8:20 AM	28-Mar-2015 7:00 AM	28-Mar-2015 9:07 AM	N
	5032713_20	NA	JW-SB/SG24	SO	JW-SB24-0.5	1503063-08	5032705	1/1	17-Mar-2015 8:30 AM	28-Mar-2015 7:00 AM	28-Mar-2015 7:32 AM	N
	5032713_20	NA	JW-SB/SG24	SO	JW-SB24-15	1503063-11	5032705	1/1	17-Mar-2015 9:00 AM	28-Mar-2015 7:00 AM	28-Mar-2015 8:04 AM	N
	5032713_20	NA	LABQC	SQ	LABQC	1503063-15	5032705	1/1	28-Mar-2015 7:00 AM	28-Mar-2015 7:00 AM	28-Mar-2015 11:14 AM	LB
	5032713_20	NA	LABQC	SQ	LABQC	5032713-BLK1	5032705	1/1	28-Mar-2015 7:00 AM	28-Mar-2015 7:00 AM	28-Mar-2015 7:00 AM	LB

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
024h5C2800	5032107_20	NA	JW-SB/SG21	SO	JW-SB21-0.5	5032107-MS1	5033105_5C	1/1	17-Mar-2015 10:45 AM	26-Mar-2015 1:03 PM	29-Mar-2015 3:57 AM	MS
	5032107_20	NA	JW-SB/SG21	SO	JW-SB21-0.5	5032107-MSD1	5033105_5C	1/1	17-Mar-2015 10:45 AM	26-Mar-2015 1:03 PM	29-Mar-2015 4:28 AM	SD
	5032107_20	NA	JW-SB/SG24	SO	JW-SB24-0.5	1503063-08RE1	5033105_5C	1/1	17-Mar-2015 8:30 AM	26-Mar-2015 1:03 PM	29-Mar-2015 5:27 AM	N
078g5C2501	5032107_20	NA	JW-SB/SG21	SO	JW-SB21-0.5	1503063-01	5032606_5C	1/1	17-Mar-2015 10:45 AM	26-Mar-2015 1:03 PM	27-Mar-2015 12:27 PM	N
	5032107_20	NA	JW-SB/SG21	SO	JW-SB21-15	1503063-05	5032606_5C	1/1	17-Mar-2015 11:15 AM	26-Mar-2015 1:03 PM	27-Mar-2015 2:29 PM	N
	5032107_20	NA	JW-SB/SG21	SO	JW-SB21-2	1503063-02	5032606_5C	1/1	17-Mar-2015 10:50 AM	26-Mar-2015 1:03 PM	27-Mar-2015 12:57 PM	N
	5032107_20	NA	JW-SB/SG21	SO	JW-SB21-25	1503063-06	5032606_5C	1/1	17-Mar-2015 11:20 AM	26-Mar-2015 1:03 PM	27-Mar-2015 2:59 PM	N
	5032107_20	NA	JW-SB/SG21	SO	JW-SB21-35	1503063-07	5032606_5C	1/1	17-Mar-2015 11:30 AM	26-Mar-2015 1:03 PM	27-Mar-2015 3:30 PM	N
	5032107_20	NA	JW-SB/SG21	SO	JW-SB21-5	1503063-03	5032606_5C	1/1	17-Mar-2015 11:00 AM	26-Mar-2015 1:03 PM	27-Mar-2015 1:28 PM	N
	5032107_20	NA	JW-SB/SG21	SO	JW-SB21-6	1503063-04	5032606_5C	1/1	17-Mar-2015 11:05 AM	26-Mar-2015 1:03 PM	27-Mar-2015 1:58 PM	FD

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
078g5C2501	5032107_20	NA	LABQC	SQ	LABQC	5032107-BS1	5032606_5C	1/1	26-Mar-2015 1:03 PM	26-Mar-2015 1:03 PM	27-Mar-2015 10:56 AM	BS
	5032107_20	NA	LABQC	SQ	LABQC	5032107-BLK1	5032606_5C	1/1	26-Mar-2015 1:03 PM	26-Mar-2015 1:03 PM	27-Mar-2015 9:59 AM	LB
093g5C2501	5032107_20	NA	JW-SB/SG20	SO	JW-SB20-0.5	1503063-16	5032606_5C	1/1	18-Mar-2015 8:10 AM	26-Mar-2015 1:03 PM	27-Mar-2015 9:03 PM	N
	5032107_20	NA	JW-SB/SG20	SO	JW-SB20-15	1503063-19	5032606_5C	1/1	18-Mar-2015 8:30 AM	26-Mar-2015 1:03 PM	27-Mar-2015 10:34 PM	N
	5032107_20	NA	JW-SB/SG20	SO	JW-SB20-2	1503063-17	5032606_5C	1/1	18-Mar-2015 8:15 AM	26-Mar-2015 1:03 PM	27-Mar-2015 9:34 PM	N
	5032107_20	NA	JW-SB/SG20	SO	JW-SB20-25	1503063-20	5032606_5C	1/1	18-Mar-2015 8:35 AM	26-Mar-2015 1:03 PM	27-Mar-2015 11:04 PM	N
	5032107_20	NA	JW-SB/SG20	SO	JW-SB20-35	1503063-21	5032606_5C	1/1	18-Mar-2015 8:40 AM	26-Mar-2015 1:03 PM	27-Mar-2015 11:34 PM	N
	5032107_20	NA	JW-SB/SG20	SO	JW-SB20-5	1503063-18	5032606_5C	1/1	18-Mar-2015 8:20 AM	26-Mar-2015 1:03 PM	27-Mar-2015 10:04 PM	N
	5032107_20	NA	JW-SB/SG24	SO	JW-SB24-15	1503063-11	5032606_5C	1/1	17-Mar-2015 9:00 AM	26-Mar-2015 1:03 PM	27-Mar-2015 7:02 PM	N
	5032107_20	NA	JW-SB/SG24	SO	JW-SB24-2	1503063-09	5032606_5C	1/1	17-Mar-2015 8:45 AM	26-Mar-2015 1:03 PM	27-Mar-2015 6:01 PM	N
	5032107_20	NA	JW-SB/SG24	SO	JW-SB24-25	1503063-12	5032606_5C	1/1	17-Mar-2015 9:05 AM	26-Mar-2015 1:03 PM	27-Mar-2015 7:33 PM	N
	5032107_20	NA	JW-SB/SG24	SO	JW-SB24-26	1503063-13	5032606_5C	1/1	17-Mar-2015 9:10 AM	26-Mar-2015 1:03 PM	27-Mar-2015 8:03 PM	FD
	5032107_20	NA	JW-SB/SG24	SO	JW-SB24-35	1503063-14	5032606_5C	1/1	17-Mar-2015 9:20 AM	26-Mar-2015 1:03 PM	27-Mar-2015 8:34 PM	N
	5032107_20	NA	JW-SB/SG24	SO	JW-SB24-5	1503063-10	5032606_5C	1/1	17-Mar-2015 8:50 AM	26-Mar-2015 1:03 PM	27-Mar-2015 6:32 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

Field Batch Report

--No Records Found--

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CSVOL12 / SW3550B	Surrogate	JW-SB24-15 (N)	1 / 1.00	Benzo(a)pyrene-d12	33.3	Percent	J/UJ	43 - 111	10 - 120	S			
CSVOL12 / SW3550B	Surrogate	JW-SB24-15 (N)	1 / 1.00	Pyrene-d10	49.3	Percent	J/UJ	51 - 120	10 - 130	S			
CVOL / METHOD	Blank	1503063-15 (LB)	1 / 1.00	Methylene Chloride	0.890	ug/kg	U/None	< 0.63	< 5	B1		2	1.78
CVOL / METHOD	Blank	5032711-BLK1 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.490	ug/kg	U/None	< 0.42	< 5	B1		1	0.490
CVOL / METHOD	Blank	5032711-BLK1 (LB)	1 / 1.00	Methylene Chloride	0.990	ug/kg	U/None	< 0.63	< 5	B1		2	1.98
CVOL / METHOD	Blank	5032713-BLK1 (LB)	1 / 1.00	Methylene Chloride	1.10	ug/kg	U/None	< 0.63	< 5	B1		2	2.20
CVOL / METHOD	Field Duplicate RPD	1503063-13 (N)	1 / 1.00	Chloroform	81.1	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	MS Recovery	JW-SB21-0.5 (SD)	1 / 1.00	1,1-Dichloroethene	60.9	PERCENT	J/UJ	65 - 135	10 - 145	M			
CVOL / METHOD	MS Recovery	JW-SB21-0.5 (MS)	1 / 1.00	1,1-Dichloroethene	63.1	PERCENT	J/UJ	65 - 135	10 - 145	M			
CVOL / METHOD	MS Recovery	JW-SB21-0.5 (SD)	1 / 1.00	Chlorobenzene	60.9	PERCENT	J/UJ	65 - 135	10 - 145	M			
CVOL / METHOD	MS Recovery	JW-SB21-0.5 (MS)	1 / 1.00	Chlorobenzene	63.1	PERCENT	J/UJ	65 - 135	10 - 145	M			
CVOL / METHOD	MS Recovery	JW-SB21-0.5 (SD)	1 / 1.00	Toluene	62.4	PERCENT	J/UJ	65 - 135	10 - 145	M			
CVOL / METHOD	MS Recovery	JW-SB21-0.5 (MS)	1 / 1.00	Toluene	62.8	PERCENT	J/UJ	65 - 135	10 - 145	M			
CVOL / METHOD	MS Recovery	JW-SB21-0.5 (SD)	1 / 1.00	Trichloroethene (TCE)	62.8	PERCENT	J/UJ	65 - 135	10 - 145	M			
CVOL / METHOD	MS Recovery	JW-SB21-0.5 (MS)	1 / 1.00	Trichloroethene (TCE)	63.1	PERCENT	J/UJ	65 - 135	10 - 145	M			
CVOL / METHOD	Surrogate	JW-SB20-15 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	52.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB20-15 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	68.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB20-2 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	68.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB20-2 (N)	1 / 1.00	2-Hexanone-d5	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB20-25 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB20-5 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB20-5 (N)	1 / 1.00	2-Hexanone-d5	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Surrogate	JW-SB21-0.5 (SD)	1 / 1.00	1,2-Dichlorobenzene-d4	64.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB21-25 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	54.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-15 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	66.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-15 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	64.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-2 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	48.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-2 (N)	1 / 1.00	2-Butanone-d5	47.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-2 (N)	1 / 1.00	2-Hexanone-d5	49.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-25 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	30.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-26 (FD)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	68.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	1,1-Dichloroethene-d2	142	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	158	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	1,2-Dichloroethane-d4	178	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	1,2-Dichloropropane-d6	178	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	1,4-Dioxane-d8	160	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	2-Butanone-d5	180	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	2-Hexanone-d5	160	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	Benzene-d6	178	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	Chloroethane-d5	174	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	Chloroform-d	162	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	Toluene-d8	176	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	170	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-35 (N)	1 / 1.00	Vinyl Chloride-d3	154	PERCENT	J/None	70 - 130	20 - 140	S			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Surrogate	JW-SB24-5 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	56.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-5 (N)	1 / 1.00	2-Butanone-d5	45.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB24-5 (N)	1 / 1.00	2-Hexanone-d5	42.0	PERCENT	J/UJ	70 - 130	20 - 140	S			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB21-0.5	N	Benzyl butyl phthalate	190	56.0 J	56.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB21-0.5	N	bis(2-Ethylhexyl) Phthalate	190	130 J	130 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB21-0.5	N	Di-n-Butyl Phthalate	190	65.0 J	65.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB21-0.5	N	Fluoranthene	190	36.0 J	36.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB21-35	N	Acetophenone	170	40.0 J	40.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB24-15	N	Benzo(a)anthracene	200	200 U	200 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB24-15	N	Benzo(a)pyrene	200	200 U	200 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB24-15	N	Benzo(b)fluoranthene	200	200 U	200 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB24-15	N	Benzo(g,h,i)perylene	200	200 U	200 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB24-15	N	Benzo(k)fluoranthene	200	200 U	200 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB24-15	N	Chrysene	200	200 U	200 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB24-15	N	Dibenz(a,h)anthracene	200	200 U	200 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB24-15	N	Fluoranthene	200	200 U	200 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB24-15	N	Indeno(1,2,3-c,d)pyrene	200	200 U	200 UJ	ug/kg	S
CSVOL12/NONE	SO	JW-SB24-15	N	Pyrene	200	200 U	200 UJ	ug/kg	S

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB20-0.5	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB20-0.5	N	Toluene	5.2	0.63 J	0.63 J	ug/kg	TR
CVOL/NONE	SO	JW-SB20-15	N	1,1,2,2-Tetrachloroethane	4.8	4.8 U	4.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB20-15	N	1,2-Dibromo-3-chloropropane	4.8	4.8 U	4.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB20-15	N	1,4-Dioxane (p-Dioxane)	96.0	96.0 U	96.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB20-15	N	Chloroform	4.8	4.5 J	4.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB20-15	N	Tetrachloroethene (PCE)	4.8	3.3 J	3.3 J	ug/kg	TR
CVOL/NONE	SO	JW-SB20-2	N	1,4-Dioxane (p-Dioxane)	91.0	91.0 U	91.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB20-2	N	Toluene	4.6	0.46 J	0.46 J	ug/kg	TR
CVOL/NONE	SO	JW-SB20-25	N	1,1,2,2-Tetrachloroethane	5.4	5.4 U	5.4 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB20-25	N	1,2-Dibromo-3-chloropropane	5.4	5.4 U	5.4 UJ	ug/kg	S

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB20-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB20-35	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB20-5	N	1,4-Dioxane (p-Dioxane)	89.0	89.0 U	89.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB20-5	N	Toluene	4.4	0.51 J	0.51 J	ug/kg	TR
CVOL/NONE	SO	JW-SB21-0.5	N	1,1-Dichloroethene	4.8	4.8 U	4.8 UJ	ug/kg	M
CVOL/NONE	SO	JW-SB21-0.5	N	1,4-Dioxane (p-Dioxane)	96.0	96.0 U	96.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-0.5	N	Chlorobenzene	4.8	4.8 U	4.8 UJ	ug/kg	M
CVOL/NONE	SO	JW-SB21-0.5	N	Tetrachloroethene (PCE)	4.8	0.88 J	0.88 J	ug/kg	TR
CVOL/NONE	SO	JW-SB21-0.5	N	Toluene	4.8	0.59 J	0.59 J	ug/kg	M/TR
CVOL/NONE	SO	JW-SB21-0.5	N	Trichloroethene (TCE)	4.8	4.8 U	4.8 UJ	ug/kg	M
CVOL/NONE	SO	JW-SB21-15	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	120 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-2	N	Acetone	12.0	8.3 J	8.3 J	ug/kg	TR
CVOL/NONE	SO	JW-SB21-25	N	1,1,2,2-Tetrachloroethane	5.7	5.7 U	5.7 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB21-25	N	1,2-Dibromo-3-chloropropane	5.7	5.7 U	5.7 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB21-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-35	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-35	N	Acetone	10.0	5.3 J	5.3 J	ug/kg	TR
CVOL/NONE	SO	JW-SB21-5	N	1,4-Dioxane (p-Dioxane)	91.0	91.0 U	91.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-6	FD	1,4-Dioxane (p-Dioxane)	120	120 U	120 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-0.5	N	1,2,3-Trichlorobenzene	5.8	5.8 U	5.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-0.5	N	1,2,4-Trichlorobenzene	5.8	5.8 U	5.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-0.5	N	1,2-Dichlorobenzene	5.8	5.8 U	5.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-0.5	N	1,3-Dichlorobenzene	5.8	5.8 U	5.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-0.5	N	1,4-Dichlorobenzene	5.8	5.8 U	5.8 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-0.5	N	1,4-Dioxane (p-Dioxane)	120	120 U	120 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-0.5	N	Chlorobenzene	5.8	5.8 U	5.8 UJ	ug/kg	S

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB24-0.5	N	Toluene	5.8	0.68 J	0.68 J	ug/kg	TR
CVOL/NONE	SO	JW-SB24-15	N	1,2,3-Trichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-15	N	1,2,4-Trichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-15	N	1,2-Dichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-15	N	1,3-Dichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-15	N	1,4-Dichlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-15	N	1,4-Dioxane (p-Dioxane)	97.0	97.0 U	97.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-15	N	Acetone	9.7	7.2 J	7.2 J	ug/kg	TR
CVOL/NONE	SO	JW-SB24-15	N	Chlorobenzene	4.9	4.9 U	4.9 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-2	N	1,1,2-Trichloroethane	6.2	6.2 U	6.2 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-2	N	1,2,3-Trichlorobenzene	6.2	6.2 U	6.2 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-2	N	1,2,4-Trichlorobenzene	6.2	6.2 U	6.2 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-2	N	1,2-Dichlorobenzene	6.2	6.2 U	6.2 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-2	N	1,3-Dichlorobenzene	6.2	6.2 U	6.2 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-2	N	1,4-Dichlorobenzene	6.2	6.2 U	6.2 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	120 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-2	N	Chlorobenzene	6.2	6.2 U	6.2 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-2	N	cis-1,3-Dichloropropene	6.2	6.2 U	6.2 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-2	N	Toluene	6.2	0.89 J	0.89 J	ug/kg	TR
CVOL/NONE	SO	JW-SB24-2	N	trans-1,3-Dichloropropene	6.2	6.2 U	6.2 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-25	N	1,1,2,2-Tetrachloroethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-25	N	1,1-Dichloroethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-25	N	1,2-Dibromo-3-chloropropane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-25	N	Bromochloromethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-25	N	Bromoform	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-25	N	Chloroform	5.6	13.0	13.0 J	ug/kg	D5/S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB24-25	N	Dibromochloromethane	5.6	5.6 U	5.6 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-26	FD	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-26	FD	Chloroform	5.6	5.5 J	5.5 J	ug/kg	D5/TR
CVOL/NONE	SO	JW-SB24-35	N	1,4-Dioxane (p-Dioxane)	180	180 U	180 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-35	N	Acetone	18.0	13.0 J	13.0 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB24-5	N	1,2,3-Trichlorobenzene	5.7	5.7 U	5.7 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-5	N	1,2,4-Trichlorobenzene	5.7	5.7 U	5.7 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-5	N	1,2-Dichlorobenzene	5.7	5.7 U	5.7 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-5	N	1,3-Dichlorobenzene	5.7	5.7 U	5.7 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-5	N	1,4-Dichlorobenzene	5.7	5.7 U	5.7 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-5	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-5	N	Chlorobenzene	5.7	5.7 U	5.7 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB24-5	N	Toluene	5.7	0.58 J	0.58 J	ug/kg	TR

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB21-0.5	N	Benzyl butyl phthalate	190	56.0 J	56.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB21-0.5	N	bis(2-Ethylhexyl) Phthalate	190	130 J	130 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB21-0.5	N	Di-n-Butyl Phthalate	190	65.0 J	65.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB21-0.5	N	Fluoranthene	190	36.0 J	36.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB21-35	N	Acetophenone	170	40.0 J	40.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB24-0.5	N	bis(2-Ethylhexyl) Phthalate	190	840	840	ug/kg	
CSVOL12/NONE	SO	JW-SB24-0.5	N	Benzo(a)anthracene	190	32.0 J	32.0 J	ug/kg	
CSVOL12/NONE	SO	JW-SB24-0.5	N	Benzo(b)fluoranthene	190	49.0 J	49.0 J	ug/kg	
CSVOL12/NONE	SO	JW-SB24-0.5	N	Chrysene	190	63.0 J	63.0 J	ug/kg	
CSVOL12/NONE	SO	JW-SB24-0.5	N	Fluoranthene	190	48.0 J	48.0 J	ug/kg	
CSVOL12/NONE	SO	JW-SB24-2	N	bis(2-Ethylhexyl) Phthalate	210	230	230	ug/kg	
CSVOL12/NONE	SO	JW-SB24-5	N	bis(2-Ethylhexyl) Phthalate	210	320	320	ug/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB20-0.5	N	Acetone	10.0	36.0	36.0	ug/kg	
CVOL/NONE	SO	JW-SB20-0.5	N	Toluene	5.2	0.63 J	0.63 J	ug/kg	TR
CVOL/NONE	SO	JW-SB20-15	N	Acetone	9.6	38.0	38.0	ug/kg	
CVOL/NONE	SO	JW-SB20-15	N	Tetrachloroethene (PCE)	4.8	3.3 J	3.3 J	ug/kg	TR
CVOL/NONE	SO	JW-SB20-15	N	Chloroform	4.8	4.5 J	4.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB20-2	N	Acetone	9.1	36.0	36.0	ug/kg	
CVOL/NONE	SO	JW-SB20-2	N	Toluene	4.6	0.46 J	0.46 J	ug/kg	TR
CVOL/NONE	SO	JW-SB20-25	N	Acetone	11.0	41.0	41.0	ug/kg	
CVOL/NONE	SO	JW-SB20-25	N	Chloroform	5.4	7.1	7.1	ug/kg	
CVOL/NONE	SO	JW-SB20-35	N	Acetone	11.0	14.0	14.0	ug/kg	
CVOL/NONE	SO	JW-SB20-5	N	Acetone	8.9	31.0	31.0	ug/kg	
CVOL/NONE	SO	JW-SB20-5	N	Toluene	4.4	0.51 J	0.51 J	ug/kg	TR
CVOL/NONE	SO	JW-SB21-0.5	N	Acetone	9.6	11.0	11.0	ug/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB21-0.5	N	Toluene	4.8	0.59 J	0.59 J	ug/kg	M/TR
CVOL/NONE	SO	JW-SB21-0.5	N	Tetrachloroethene (PCE)	4.8	0.88 J	0.88 J	ug/kg	TR
CVOL/NONE	SO	JW-SB21-15	N	Acetone	11.0	13.0	13.0	ug/kg	
CVOL/NONE	SO	JW-SB21-2	N	Acetone	12.0	8.3 J	8.3 J	ug/kg	TR
CVOL/NONE	SO	JW-SB21-25	N	Acetone	11.0	15.0	15.0	ug/kg	
CVOL/NONE	SO	JW-SB21-25	N	Chloroform	5.7	8.9	8.9	ug/kg	
CVOL/NONE	SO	JW-SB21-35	N	Acetone	10.0	5.3 J	5.3 J	ug/kg	TR
CVOL/NONE	SO	JW-SB21-5	N	Acetone	9.1	11.0	11.0	ug/kg	
CVOL/NONE	SO	JW-SB21-6	FD	Acetone	12.0	16.0	16.0	ug/kg	
CVOL/NONE	SO	JW-SB24-0.5	N	Acetone	12.0	12.0	12.0	ug/kg	
CVOL/NONE	SO	JW-SB24-0.5	N	Toluene	5.8	0.68 J	0.68 J	ug/kg	TR
CVOL/NONE	SO	JW-SB24-15	N	Acetone	9.7	7.2 J	7.2 J	ug/kg	TR
CVOL/NONE	SO	JW-SB24-2	N	Acetone	12.0	15.0	15.0	ug/kg	
CVOL/NONE	SO	JW-SB24-2	N	Toluene	6.2	0.89 J	0.89 J	ug/kg	TR
CVOL/NONE	SO	JW-SB24-25	N	Acetone	11.0	12.0	12.0	ug/kg	
CVOL/NONE	SO	JW-SB24-25	N	Chloroform	5.6	13.0	13.0 J	ug/kg	D5/S
CVOL/NONE	SO	JW-SB24-26	FD	Acetone	11.0	12.0	12.0	ug/kg	
CVOL/NONE	SO	JW-SB24-26	FD	Chloroform	5.6	5.5 J	5.5 J	ug/kg	D5/TR
CVOL/NONE	SO	JW-SB24-35	N	Acetone	18.0	13.0 J	13.0 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB24-5	N	Acetone	11.0	13.0	13.0	ug/kg	
CVOL/NONE	SO	JW-SB24-5	N	Toluene	5.7	0.58 J	0.58 J	ug/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	JW-SB21-0.5	N	PCB-1254 (Arochlor 1254)	36.0	230 S	230	ug/kg	
SW8082/NONE	SO	JW-SB21-0.5	N	PCB-1260 (Arochlor 1260)	36.0	120	120	ug/kg	
SW8082/NONE	SO	JW-SB24-0.5	N	PCB-1262 (Arochlor 1262)	37.0	170	170	ug/kg	

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	JW-SB24-2	N	PCB-1262 (Arochlor 1262)	41.0	42.0 S	42.0	ug/kg	

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB20-0.5	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB20-15	N	1,4-Dioxane (p-Dioxane)	96.0	96.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB20-2	N	1,4-Dioxane (p-Dioxane)	91.0	91.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB20-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB20-35	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB20-5	N	1,4-Dioxane (p-Dioxane)	89.0	89.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-0.5	N	1,4-Dioxane (p-Dioxane)	96.0	96.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-15	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-35	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-5	N	1,4-Dioxane (p-Dioxane)	91.0	91.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB21-6	FD	1,4-Dioxane (p-Dioxane)	120	120 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-0.5	N	1,4-Dioxane (p-Dioxane)	120	120 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-15	N	1,4-Dioxane (p-Dioxane)	97.0	97.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-25	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-26	FD	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-35	N	1,4-Dioxane (p-Dioxane)	180	180 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB24-5	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10

AUTOMATED DATA REVIEW SUMMARY for Y9SY1

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

Facility: Jervis Webb Superfund Site
Spring 2015 Soil/Soil Gas Sampling Event

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: Liberty Analytical Corporation
Field Contractor: Gilbane Company, Walnut Creek, CA
Data Review Contractor: Gilbane

SDG: Y9SY8, Certified - 4/13/2015 by wtse
QC Level: S2BVEM (Tier 1B)
Project Manager: Peter Phillips

Data Reviewer: Tom Beer
Data Reviewer Title: Project Chemist
Date of Review Report: August 10, 2015
Second Reviewer:
Completion Date of Second Reviewer:

Samples Included in SDG Y9SY8

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
CSVOL12/NONE	12	1
CVOL/NONE	12	1
SW8082/NONE	12	1

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by Liberty Analytical Corporation and were reported under sample delivery group (SDG) Y9SY8. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 44 results (2.62%) out of the 1677 results (sample and field QC samples) reported are qualified based on review and 13 results (0.78%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report, EXES data review report and COC as received.

A COC date anomaly was noted but no data qualification are required.

Data qualifiers were added for initial (G) and continuing (C10, C11) calibration anomalies, one field duplicate analyte pair imprecision (D5), and poor surrogate (S) recoveries.

All 1,4-dioxane results by CVOL were rejected but the analysis by SVOL are all acceptable.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.08.10 10:48:30 -07'00'

10-Aug-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C31007-CC	5032804_20	NA	JW-SB/SG22	SO	JW-SB22-0.5	1503066-01	5032001_5C	1/1	18-Mar-2015 10:45 AM	28-Mar-2015 11:35 AM	01-Apr-2015 1:34 PM	N
	5032804_20	NA	JW-SB/SG23	SO	JW-SB23-5	5032804-MS1	5032001_5C	1/1	19-Mar-2015 12:55 PM	28-Mar-2015 11:35 AM	01-Apr-2015 12:05 PM	MS
	5032804_20	NA	JW-SB/SG23	SO	JW-SB23-5	1503066-10	5032001_5C	1/1	19-Mar-2015 12:55 PM	28-Mar-2015 11:35 AM	01-Apr-2015 11:20 AM	N
	5032804_20	NA	JW-SB/SG23	SO	JW-SB23-5	5032804-MSD1	5032001_5C	1/1	19-Mar-2015 12:55 PM	28-Mar-2015 11:35 AM	01-Apr-2015 12:50 PM	SD
	5032804_20	NA	LABQC	SQ	LABQC	5032804-BLK1	5032001_5C	1/1	28-Mar-2015 11:35 AM	28-Mar-2015 11:35 AM	01-Apr-2015 10:37 AM	LB
5D01007-CC	5032804_20	NA	JW-SB/SG22	SO	JW-SB22-15	1503066-04	5032001_5C	1/1	18-Mar-2015 11:05 AM	28-Mar-2015 11:35 AM	01-Apr-2015 6:39 PM	N
	5032804_20	NA	JW-SB/SG22	SO	JW-SB22-2	1503066-02	5032001_5C	1/1	18-Mar-2015 10:50 AM	28-Mar-2015 11:35 AM	01-Apr-2015 5:11 PM	N
	5032804_20	NA	JW-SB/SG22	SO	JW-SB22-25	1503066-05	5032001_5C	1/1	18-Mar-2015 11:15 AM	28-Mar-2015 11:35 AM	01-Apr-2015 7:22 PM	N
	5032804_20	NA	JW-SB/SG22	SO	JW-SB22-35	1503066-06	5032001_5C	1/1	18-Mar-2015 11:20 AM	28-Mar-2015 11:35 AM	01-Apr-2015 8:05 PM	N
	5032804_20	NA	JW-SB/SG22	SO	JW-SB22-5	1503066-03	5032001_5C	1/1	18-Mar-2015 10:55 AM	28-Mar-2015 11:35 AM	01-Apr-2015 5:55 PM	N
	5032804_20	NA	JW-SB/SG23	SO	JW-SB23-0.5	1503066-08	5032001_5C	1/1	19-Mar-2015 12:30 PM	28-Mar-2015 11:35 AM	01-Apr-2015 8:49 PM	N
	5032804_20	NA	JW-SB/SG23	SO	JW-SB23-15	1503066-11	5032001_5C	1/1	19-Mar-2015 1:00 PM	28-Mar-2015 11:35 AM	01-Apr-2015 10:16 PM	N
	5032804_20	NA	JW-SB/SG23	SO	JW-SB23-2	1503066-09	5032001_5C	1/1	19-Mar-2015 12:45 PM	28-Mar-2015 11:35 AM	01-Apr-2015 9:33 PM	N
	5032804_20	NA	JW-SB/SG23	SO	JW-SB23-25	1503066-12	5032001_5C	1/1	19-Mar-2015 1:10 PM	28-Mar-2015 11:35 AM	01-Apr-2015 11:00 PM	N
	5032804_20	NA	JW-SB/SG23	SO	JW-SB23-35	1503066-13	5032001_5C	1/1	19-Mar-2015 1:20 PM	28-Mar-2015 11:35 AM	01-Apr-2015 11:43 PM	N
	5032804_20	NA	JW-SB/SG23	SO	JW-SB23-36	1503066-14	5032001_5C	1/1	19-Mar-2015 1:25 PM	28-Mar-2015 11:35 AM	02-Apr-2015 12:27 AM	FD

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
5C27002-CC	5032713_20	NA	JW-SB/SG22	SO	JW-SB22-0.5	1503066-01	5032705	1/1	18-Mar-2015 10:45 AM	28-Mar-2015 7:00 AM	28-Mar-2015 11:45 AM	N
	5032713_20	NA	JW-SB/SG22	SO	JW-SB22-15	1503066-04	5032705	1/1	18-Mar-2015 11:05 AM	28-Mar-2015 7:00 AM	28-Mar-2015 1:20 PM	N
	5032713_20	NA	JW-SB/SG22	SO	JW-SB22-2	1503066-02	5032705	1/1	18-Mar-2015 10:50 AM	28-Mar-2015 7:00 AM	28-Mar-2015 12:17 PM	N
	5032713_20	NA	JW-SB/SG22	SO	JW-SB22-25	1503066-05	5032705	1/1	18-Mar-2015 11:15 AM	28-Mar-2015 7:00 AM	28-Mar-2015 1:52 PM	N
	5032713_20	NA	JW-SB/SG22	SO	JW-SB22-35	1503066-06	5032705	1/1	18-Mar-2015 11:20 AM	28-Mar-2015 7:00 AM	28-Mar-2015 2:23 PM	N
	5032713_20	NA	JW-SB/SG22	SO	JW-SB22-5	1503066-03	5032705	1/1	18-Mar-2015 10:55 AM	28-Mar-2015 7:00 AM	28-Mar-2015 12:49 PM	N
	5032713_20	NA	LABQC	SQ	LABQC	5032713-BLK1	5032705	1/1	28-Mar-2015 7:00 AM	28-Mar-2015 7:00 AM	28-Mar-2015 7:00 AM	LB
5C30015-TU	5033010_20	NA	JW-SB/SG23	SO	JW-SB23-0.5	1503066-08	5033107	1/1	19-Mar-2015 12:30 PM	30-Mar-2015 8:35 PM	30-Mar-2015 9:13 PM	N
	5033010_20	NA	JW-SB/SG23	SO	JW-SB23-2	1503066-09	5033107	1/1	19-Mar-2015 12:45 PM	30-Mar-2015 8:35 PM	30-Mar-2015 9:45 PM	N
	5033010_20	NA	JW-SB/SG23	SO	JW-SB23-25	1503066-12	5033107	1/1	19-Mar-2015 1:10 PM	30-Mar-2015 8:35 PM	31-Mar-2015 12:24 AM	N
	5033010_20	NA	JW-SB/SG23	SO	JW-SB23-35	1503066-13	5033107	1/1	19-Mar-2015 1:20 PM	30-Mar-2015 8:35 PM	31-Mar-2015 12:55 AM	N
	5033010_20	NA	JW-SB/SG23	SO	JW-SB23-36	1503066-14	5033107	1/1	19-Mar-2015 1:25 PM	30-Mar-2015 8:35 PM	31-Mar-2015 1:27 AM	FD
	5033010_20	NA	JW-SB/SG23	SO	JW-SB23-5	5033010-MS1	5033107	1/1	19-Mar-2015 12:55 PM	30-Mar-2015 8:35 PM	30-Mar-2015 10:48 PM	MS
	5033010_20	NA	JW-SB/SG23	SO	JW-SB23-5	1503066-10	5033107	1/1	19-Mar-2015 12:55 PM	30-Mar-2015 8:35 PM	30-Mar-2015 10:17 PM	N
	5033010_20	NA	JW-SB/SG23	SO	JW-SB23-5	5033010-MSD1	5033107	1/1	19-Mar-2015 12:55 PM	30-Mar-2015 8:35 PM	30-Mar-2015 11:20 PM	SD
	5033010_20	NA	LABQC	SQ	LABQC	5033010-BLK1	5033107	1/1	30-Mar-2015 8:35 PM	30-Mar-2015 8:35 PM	30-Mar-2015 8:35 PM	LB
5C31002-CC	5033107_20	NA	JW-SB/SG23	SO	JW-SB23-15	1503066-11	5033107	1/1	19-Mar-2015 1:00 PM	31-Mar-2015 2:18 PM	31-Mar-2015 2:59 PM	N
	5033107_20	NA	LABQC	SQ	LABQC	1503066-07	5033107	1/1	31-Mar-2015 2:18 PM	31-Mar-2015 2:18 PM	31-Mar-2015 3:38 PM	LB
	5033107_20	NA	LABQC	SQ	LABQC	5033107-BLK1	5033107	1/1	31-Mar-2015 2:18 PM	31-Mar-2015 2:18 PM	31-Mar-2015 2:18 PM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
046h5D0201	5033002_20	NA	JW-SB/SG23	SO	JW-SB23-0.5	1503066-08	5033105_5D	1/1	19-Mar-2015 12:30 PM	30-Mar-2015 9:58 AM	02-Apr-2015 4:12 PM	N
	5033002_20	NA	JW-SB/SG23	SO	JW-SB23-15	1503066-11	5033105_5D	1/1	19-Mar-2015 1:00 PM	30-Mar-2015 9:58 AM	02-Apr-2015 5:13 PM	N
	5033002_20	NA	JW-SB/SG23	SO	JW-SB23-2	1503066-09	5033105_5D	1/1	19-Mar-2015 12:45 PM	30-Mar-2015 9:58 AM	02-Apr-2015 4:43 PM	N
	5033002_20	NA	JW-SB/SG23	SO	JW-SB23-25	1503066-12	5033105_5D	1/1	19-Mar-2015 1:10 PM	30-Mar-2015 9:58 AM	02-Apr-2015 5:44 PM	N
	5033002_20	NA	JW-SB/SG23	SO	JW-SB23-35	1503066-13	5033105_5D	1/1	19-Mar-2015 1:20 PM	30-Mar-2015 9:58 AM	02-Apr-2015 6:14 PM	N
	5033002_20	NA	JW-SB/SG23	SO	JW-SB23-36	1503066-14	5033105_5D	1/1	19-Mar-2015 1:25 PM	30-Mar-2015 9:58 AM	02-Apr-2015 6:44 PM	FD
	5033002_20	NA	LABQC	SQ	LABQC	5033002-BS1	5033105_5D	1/1	30-Mar-2015 9:58 AM	30-Mar-2015 9:58 AM	02-Apr-2015 3:11 PM	BS
	5033002_20	NA	LABQC	SQ	LABQC	5033002-BSD1	5033105_5D	1/1	30-Mar-2015 9:58 AM	30-Mar-2015 9:58 AM	02-Apr-2015 3:42 PM	BS
	5033002_20	NA	LABQC	SQ	LABQC	5033002-BLK1	5033105_5D	1/1	30-Mar-2015 9:58 AM	30-Mar-2015 9:58 AM	02-Apr-2015 2:14 PM	LB
059h5D0201	5032709_20	NA	JW-SB/SG22	SO	JW-SB22-0.5	1503066-01	5033105_5D	1/1	18-Mar-2015 10:45 AM	28-Mar-2015 9:30 AM	02-Apr-2015 11:18 PM	N
	5032709_20	NA	JW-SB/SG22	SO	JW-SB22-15	1503066-04	5033105_5D	1/1	18-Mar-2015 11:05 AM	28-Mar-2015 9:30 AM	03-Apr-2015 12:50 AM	N
	5032709_20	NA	JW-SB/SG22	SO	JW-SB22-2	1503066-02	5033105_5D	1/1	18-Mar-2015 10:50 AM	28-Mar-2015 9:30 AM	02-Apr-2015 11:49 PM	N
	5032709_20	NA	JW-SB/SG22	SO	JW-SB22-25	1503066-05	5033105_5D	1/1	18-Mar-2015 11:15 AM	28-Mar-2015 9:30 AM	03-Apr-2015 1:20 AM	N
	5032709_20	NA	JW-SB/SG22	SO	JW-SB22-35	1503066-06	5033105_5D	1/1	18-Mar-2015 11:20 AM	28-Mar-2015 9:30 AM	03-Apr-2015 1:51 AM	N
	5032709_20	NA	JW-SB/SG22	SO	JW-SB22-5	1503066-03	5033105_5D	1/1	18-Mar-2015 10:55 AM	28-Mar-2015 9:30 AM	03-Apr-2015 12:19 AM	N
	5032709_20	NA	JW-SB/SG23	SO	JW-SB23-5	5032709-MS1	5033105_5D	1/1	19-Mar-2015 12:55 PM	28-Mar-2015 9:30 AM	02-Apr-2015 10:17 PM	MS
	5032709_20	NA	JW-SB/SG23	SO	JW-SB23-5	1503066-10	5033105_5D	1/1	19-Mar-2015 12:55 PM	28-Mar-2015 9:30 AM	03-Apr-2015 2:21 AM	N
	5032709_20	NA	JW-SB/SG23	SO	JW-SB23-5	5032709-MSD1	5033105_5D	1/1	19-Mar-2015 12:55 PM	28-Mar-2015 9:30 AM	02-Apr-2015 10:48 PM	SD
	5032709_20	NA	LABQC	SQ	LABQC	5032709-BS1	5033105_5D	1/1	28-Mar-2015 9:30 AM	28-Mar-2015 9:30 AM	02-Apr-2015 9:47 PM	BS
	5032709_20	NA	LABQC	SQ	LABQC	5032709-BLK1	5033105_5D	1/1	28-Mar-2015 9:30 AM	28-Mar-2015 9:30 AM	02-Apr-2015 8:46 PM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CSVOL12 / SW3550B	Blank	5032804-BLK1 (LB)	1 / 1.00	Acetophenone	42.0	ug/kg	U/None	< 14	< 170	B1		1	42.0
CSVOL12 / SW3550B	Field Duplicate RPD	1503066-14 (N)	1 / 1.00	bis(2-Ethylhexyl) Phthalate	117	RPD	J/None	< 50	< 100	D5		RPD	
CSVOL12 / SW3550B	MS Recovery	JW-SB23-5 (MS)	1 / 1.00	Pentachlorophenol	118	Percent	J/None	17 - 109	10 - 120	M			
CVOL / METHOD	Blank	1503066-07 (LB)	1 / 1.00	Methylene Chloride	1.40	ug/kg	U/None	< 0.63	< 5	B1		2	2.80
CVOL / METHOD	Blank	5032713-BLK1 (LB)	1 / 1.00	Methylene Chloride	1.10	ug/kg	U/None	< 0.63	< 5	B1		2	2.20
CVOL / METHOD	Blank	5033010-BLK1 (LB)	1 / 1.00	Methylene Chloride	3.50	ug/kg	U/None	< 0.63	< 5	B1		2	7.00
CVOL / METHOD	Blank	5033107-BLK1 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	1.40	ug/kg	U/None	< 0.42	< 5	B1		1	1.40
CVOL / METHOD	Blank	5033107-BLK1 (LB)	1 / 1.00	1,2,4-Trichlorobenzene	1.10	ug/kg	U/None	< 0.53	< 5	B1		1	1.10
CVOL / METHOD	Blank	5033107-BLK1 (LB)	1 / 1.00	Methylene Chloride	0.720	ug/kg	U/None	< 0.63	< 5	B1		2	1.44
CVOL / METHOD	Surrogate	JW-SB22-25 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	42.0	PERCENT	J/UJ	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB23-0.5 (N)	1 / 1.00	2-Butanone-d5	150	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB23-0.5 (N)	1 / 1.00	2-Hexanone-d5	140	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB23-15 (N)	1 / 1.00	1,2-Dichloroethane-d4	136	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB23-15 (N)	1 / 1.00	1,2-Dichloropropane-d6	132	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB23-15 (N)	1 / 1.00	2-Butanone-d5	160	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB23-15 (N)	1 / 1.00	2-Hexanone-d5	140	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB23-15 (N)	1 / 1.00	Benzene-d6	132	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB23-15 (N)	1 / 1.00	Chloroethane-d5	134	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB23-15 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	140	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB23-2 (N)	1 / 1.00	2-Butanone-d5	140	PERCENT	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-SB23-5 (MS)	1 / 1.00	2-Butanone-d5	140	PERCENT	J/None	70 - 130	20 - 140	S			
SW8082 / SW3550B	Surrogate	JW-SB23-0.5 (N)	1 / 1.00	Decachlorobiphenyl	11.8	Percent	J/R	30 - 150	20 - 160	S			

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB22-0.5	N	Fluoranthene	180	32.0 J	32.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB22-15	N	Nitrobenzene	200	200 U	200 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB22-2	N	Nitrobenzene	180	180 U	180 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB22-25	N	Nitrobenzene	200	200 U	200 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB22-35	N	Nitrobenzene	180	180 U	180 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB23-0.5	N	Fluoranthene	180	43.0 J	43.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB23-0.5	N	Nitrobenzene	180	180 U	180 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB23-15	N	Nitrobenzene	180	180 U	180 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB23-2	N	Benzo(a)anthracene	170	29.0 J	29.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB23-2	N	Chrysene	170	37.0 J	37.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB23-2	N	Fluoranthene	170	59.0 J	59.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB23-2	N	Nitrobenzene	170	170 U	170 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB23-25	N	Nitrobenzene	200	200 U	200 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB23-35	N	bis(2-Ethylhexyl) Phthalate	180	94.0 J	94.0 J	ug/kg	D5/TR
CSVOL12/NONE	SO	JW-SB23-35	N	Nitrobenzene	180	180 U	180 UJ	ug/kg	C11
CSVOL12/NONE	SO	JW-SB23-36	FD	bis(2-Ethylhexyl) Phthalate	180	360	360 J	ug/kg	D5

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB22-0.5	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB22-0.5	N	Toluene	5.5	0.71 J	0.71 J	ug/kg	TR
CVOL/NONE	SO	JW-SB22-15	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB22-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	120 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB22-25	N	1,1,2,2-Tetrachloroethane	5.2	5.2 U	5.2 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB22-25	N	1,2-Dibromo-3-chloropropane	5.2	5.2 U	5.2 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB22-25	N	1,4-Dioxane (p-Dioxane)	100	100 U	100 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB22-35	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB22-35	N	Chloroform	5.5	5.2 J	5.2 J	ug/kg	TR
CVOL/NONE	SO	JW-SB22-5	N	1,2,3-Trichlorobenzene	5.5	5.5 U	5.5 UJ	ug/kg	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB22-5	N	1,2,4-Trichlorobenzene	5.5	5.5 U	5.5 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB22-5	N	1,2-Dichlorobenzene	5.5	5.5 U	5.5 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB22-5	N	1,3-Dichlorobenzene	5.5	5.5 U	5.5 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB22-5	N	1,4-Dichlorobenzene	5.5	5.5 U	5.5 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB22-5	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB22-5	N	Chlorobenzene	5.5	5.5 U	5.5 UJ	ug/kg	S
CVOL/NONE	SO	JW-SB22-5	N	Toluene	5.5	0.93 J	0.93 J	ug/kg	TR
CVOL/NONE	SO	JW-SB23-0.5	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-0.5	N	Acetone	11.0	10.0 J	10.0 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB23-0.5	N	Toluene	5.7	0.55 J	0.55 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB23-15	N	1,4-Dioxane (p-Dioxane)	130	130 U	130 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-15	N	Acetone	13.0	5.7 J	5.7 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB23-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	120 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-2	N	Acetone	12.0	5.8 J	5.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB23-2	N	Toluene	5.8	0.56 J	0.56 J	ug/kg	TR
CVOL/NONE	SO	JW-SB23-25	N	1,4-Dioxane (p-Dioxane)	99.0	99.0 U	99.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-25	N	Acetone	9.9	9.4 J	9.4 J	ug/kg	TR
CVOL/NONE	SO	JW-SB23-35	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-35	N	Acetone	11.0	7.1 J	7.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB23-36	FD	1,4-Dioxane (p-Dioxane)	110	110 U	110 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-36	FD	Acetone	11.0	7.5 J	7.5 J	ug/kg	TR
CVOL/NONE	SO	JW-SB23-5	N	1,4-Dioxane (p-Dioxane)	96.0	96.0 U	96.0 R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-5	N	Toluene	4.8	0.41 J	0.41 J	ug/kg	TR
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
SW8082/NONE	SO	JW-SB22-0.5	N	PCB-1260 (Arochlor 1260)	35.0	8.9 J	8.9 J	ug/kg	TR
SW8082/NONE	SO	JW-SB23-0.5	N	PCB-1016 (Arochlor 1016)	35.0	35.0 U	35.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB23-0.5	N	PCB-1221 (Arochlor 1221)	35.0	35.0 U	35.0 UJ	ug/kg	S

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	JW-SB23-0.5	N	PCB-1232 (Arochlor 1232)	35.0	35.0 U	35.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB23-0.5	N	PCB-1242 (Arochlor 1242)	35.0	35.0 U	35.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB23-0.5	N	PCB-1248 (Arochlor 1248)	35.0	35.0 U	35.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB23-0.5	N	PCB-1254 (Arochlor 1254)	35.0	35.0 U	35.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB23-0.5	N	PCB-1260 (Arochlor 1260)	35.0	35.0 U	35.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB23-0.5	N	PCB-1262 (Arochlor 1262)	35.0	35.0 U	35.0 UJ	ug/kg	S
SW8082/NONE	SO	JW-SB23-0.5	N	PCB-1268 (Arochlor 1268)	35.0	35.0 U	35.0 UJ	ug/kg	S

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	SO	JW-SB22-0.5	N	Fluoranthene	180	32.0 J	32.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB23-0.5	N	Fluoranthene	180	43.0 J	43.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB23-2	N	Benzo(a)anthracene	170	29.0 J	29.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB23-2	N	Chrysene	170	37.0 J	37.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB23-2	N	Fluoranthene	170	59.0 J	59.0 J	ug/kg	TR
CSVOL12/NONE	SO	JW-SB23-35	N	bis(2-Ethylhexyl) Phthalate	180	94.0 J	94.0 J	ug/kg	D5/TR
CSVOL12/NONE	SO	JW-SB23-36	FD	bis(2-Ethylhexyl) Phthalate	180	360	360 J	ug/kg	D5

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB22-0.5	N	Acetone	11.0	23.0	23.0	ug/kg	
CVOL/NONE	SO	JW-SB22-0.5	N	Toluene	5.5	0.71 J	0.71 J	ug/kg	TR
CVOL/NONE	SO	JW-SB22-15	N	Acetone	10.0	16.0	16.0	ug/kg	
CVOL/NONE	SO	JW-SB22-2	N	Acetone	12.0	12.0	12.0	ug/kg	
CVOL/NONE	SO	JW-SB22-25	N	Acetone	10.0	43.0	43.0	ug/kg	
CVOL/NONE	SO	JW-SB22-25	N	Chloroform	5.2	10.0	10.0	ug/kg	
CVOL/NONE	SO	JW-SB22-35	N	Acetone	11.0	20.0	20.0	ug/kg	
CVOL/NONE	SO	JW-SB22-35	N	Chloroform	5.5	5.2 J	5.2 J	ug/kg	TR
CVOL/NONE	SO	JW-SB22-5	N	Acetone	11.0	34.0	34.0	ug/kg	
CVOL/NONE	SO	JW-SB22-5	N	Toluene	5.5	0.93 J	0.93 J	ug/kg	TR
CVOL/NONE	SO	JW-SB23-0.5	N	Acetone	11.0	10.0 J	10.0 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB23-0.5	N	Toluene	5.7	0.55 J	0.55 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB23-15	N	Acetone	13.0	5.7 J	5.7 J	ug/kg	S/TR
CVOL/NONE	SO	JW-SB23-2	N	Acetone	12.0	5.8 J	5.8 J	ug/kg	TR
CVOL/NONE	SO	JW-SB23-2	N	Toluene	5.8	0.56 J	0.56 J	ug/kg	TR
CVOL/NONE	SO	JW-SB23-25	N	Acetone	9.9	9.4 J	9.4 J	ug/kg	TR
CVOL/NONE	SO	JW-SB23-35	N	Acetone	11.0	7.1 J	7.1 J	ug/kg	TR
CVOL/NONE	SO	JW-SB23-36	FD	Acetone	11.0	7.5 J	7.5 J	ug/kg	TR

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB23-5	N	Acetone	9.6	9.9	9.9	ug/kg	
CVOL/NONE	SO	JW-SB23-5	N	Toluene	4.8	0.41 J	0.41 J	ug/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	JW-SB22-0.5	N	PCB-1260 (Arochlor 1260)	35.0	8.9 J	8.9 J	ug/kg	TR

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	SO	JW-SB22-0.5	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB22-15	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB22-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB22-25	N	1,4-Dioxane (p-Dioxane)	100	100 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB22-35	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB22-5	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-0.5	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-15	N	1,4-Dioxane (p-Dioxane)	130	130 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-2	N	1,4-Dioxane (p-Dioxane)	120	120 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-25	N	1,4-Dioxane (p-Dioxane)	99.0	99.0 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-35	N	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-36	FD	1,4-Dioxane (p-Dioxane)	110	110 U	R	ug/kg	G/C10
CVOL/NONE	SO	JW-SB23-5	N	1,4-Dioxane (p-Dioxane)	96.0	96.0 U	R	ug/kg	G/C10

AUTOMATED DATA REVIEW SUMMARY for Y9SY8

AUTOMATED DATA REVIEW SUMMARY for Y9WP5

Facility: Jervis Webb Superfund Site
June 2015 CPT Groundwater Sampling

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: Y9WP5, Certified - 8/26/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: October 05, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9WP5

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	15	3
CVOL/NONE	15	5

AUTOMATED DATA REVIEW SUMMARY for Y9WP5

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) Y9WP5. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9WP5

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 3 results (0.28%) out of the 1058 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked the CLP lab report case narrative, the EXES data validation report, and the COC as received.

No calibration anomalies or sample receipt issues (except some bottle breakage) were noted.

Data were qualified for minor surrogate recovery exceedance (S+) and field duplicate imprecision (D5)

No data were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.10.05 13:09:13 -07'00'

05-Oct-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C21699	C21702	NA	JW-CPT04	WG	JW-CPT04-130	S-1033.05	C21641	1/1	16-Jun-2015 2:10 AM	20-Jun-2015 2:10 PM	10-Jul-2015 11:51 AM	N
	C21702	NA	JW-CPT04	WG	JW-CPT04-60	S-1033.01	C21641	1/1	15-Jun-2015 11:30 PM	20-Jun-2015 2:10 PM	10-Jul-2015 10:59 AM	N
	C21702	NA	JW-CPT04	WG	JW-CPT04-60	S-1033.01	C21641	1/5	15-Jun-2015 11:30 PM	20-Jun-2015 2:10 PM	10-Jul-2015 3:32 PM	N
	C21702	NA	JW-CPT04	WG	JW-CPT04-61	S-1033.02	C21641	1/1	15-Jun-2015 11:35 PM	20-Jun-2015 2:10 PM	10-Jul-2015 11:12 AM	FD
	C21702	NA	JW-CPT04	WG	JW-CPT04-75	S-1033.03	C21641	1/1	16-Jun-2015 12:30 AM	20-Jun-2015 2:10 PM	10-Jul-2015 11:25 AM	N
	C21702	NA	JW-CPT04	WG	JW-CPT04-90	S-1033.04	C21641	1/1	16-Jun-2015 1:05 AM	20-Jun-2015 2:10 PM	10-Jul-2015 11:38 AM	N
	C21702	NA	JW-CPT05	WG	JW-CPT05-105	S-1036.05	C21641	1/1	17-Jun-2015 1:40 AM	20-Jun-2015 2:10 PM	10-Jul-2015 12:56 PM	N
	C21702	NA	JW-CPT05	WG	JW-CPT05-130	S-1036.06	C21641	1/1	17-Jun-2015 2:30 AM	20-Jun-2015 2:10 PM	10-Jul-2015 1:09 PM	N
	C21702	NA	JW-CPT05	WG	JW-CPT05-60	S-1036.01	C21641	1/10	16-Jun-2015 10:50 PM	20-Jun-2015 2:10 PM	10-Jul-2015 3:18 PM	N
	C21702	NA	JW-CPT05	WG	JW-CPT05-75	S-1036.02	C21641	1/1	16-Jun-2015 11:35 PM	20-Jun-2015 2:10 PM	10-Jul-2015 12:17 PM	N
	C21702	NA	JW-CPT05	WG	JW-CPT05-90	S-1036.03	C21641	1/1	17-Jun-2015 12:30 AM	20-Jun-2015 2:10 PM	10-Jul-2015 12:30 PM	N
	C21702	NA	JW-CPT05	WG	JW-CPT05-91	S-1036.04	C21641	1/1	17-Jun-2015 12:35 AM	20-Jun-2015 2:10 PM	10-Jul-2015 12:43 PM	FD
	C21702	NA	JW-CPT06	WG	JW-CPT06-75	S-1044.01	C21641	1/1	19-Jun-2015 4:30 AM	20-Jun-2015 2:10 PM	10-Jul-2015 2:39 PM	N
	C21702	NA	JW-CPT08	WG	JW-CPT08-105	S-1043.04	C21641	1/1	18-Jun-2015 12:17 AM	20-Jun-2015 2:10 PM	10-Jul-2015 2:00 PM	N
	C21702	NA	JW-CPT08	WG	JW-CPT08-106	S-1043.05	C21641	1/1	18-Jun-2015 12:25 AM	20-Jun-2015 2:10 PM	10-Jul-2015 2:13 PM	FD
	C21702	NA	JW-CPT08	WG	JW-CPT08-130	S-1043.06	C21641	1/1	18-Jun-2015 1:15 AM	20-Jun-2015 2:10 PM	10-Jul-2015 2:26 PM	N
	C21702	NA	JW-CPT08	WG	JW-CPT08-60	S-1043.01	C21641	1/1	17-Jun-2015 10:20 PM	20-Jun-2015 2:10 PM	10-Jul-2015 1:21 PM	N
	C21702	NA	JW-CPT08	WG	JW-CPT08-75	S-1043.02	C21641	1/1	17-Jun-2015 11:00 PM	20-Jun-2015 2:10 PM	10-Jul-2015 1:34 PM	N
	C21702	NA	JW-CPT08	WG	JW-CPT08-90	S-1043.03	C21641	1/1	17-Jun-2015 11:40 PM	20-Jun-2015 2:10 PM	10-Jul-2015 1:47 PM	N
	C21702	NA	LABQC	WQ	LABQC	SBLK45	C21641	1/1	20-Jun-2015 2:10 PM	20-Jun-2015 2:10 PM	10-Jul-2015 10:33 AM	LB
	C21723	NA	LABQC	WQ	LABQC	SLCS45	C21641	1/1	20-Jun-2015 2:10 PM	20-Jun-2015 2:10 PM	10-Jul-2015 3:05 PM	BS

AUTOMATED DATA REVIEW SUMMARY for Y9WP5

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32082	G32085	NA	FIELDQC	WQ	JW-RL02-0615	S-1036.07	G32032	1/1	17-Jun-2015 12:18 AM	23-Jun-2015 5:51 PM	23-Jun-2015 5:51 PM	TB
	G32085	NA	JW-CPT04	WG	JW-CPT04-130	S-1033.05	G32032	1/1	16-Jun-2015 2:10 AM	23-Jun-2015 2:24 PM	23-Jun-2015 2:24 PM	N
	G32085	NA	JW-CPT04	WG	JW-CPT04-60	S-1033.01	G32032	1/1	15-Jun-2015 11:30 PM	23-Jun-2015 12:25 PM	23-Jun-2015 12:25 PM	N
	G32085	NA	JW-CPT04	WG	JW-CPT04-61	S-1033.02	G32032	1/1	15-Jun-2015 11:35 PM	23-Jun-2015 12:54 PM	23-Jun-2015 12:54 PM	FD
	G32085	NA	JW-CPT04	WG	JW-CPT04-75	S-1033.03	G32032	1/1	16-Jun-2015 12:30 AM	23-Jun-2015 1:25 PM	23-Jun-2015 1:25 PM	N
	G32085	NA	JW-CPT04	WG	JW-CPT04-90	S-1033.04	G32032	1/1	16-Jun-2015 1:05 AM	23-Jun-2015 1:55 PM	23-Jun-2015 1:55 PM	N
	G32085	NA	JW-CPT05	WG	JW-CPT05-105	S-1036.05	G32032	1/1	17-Jun-2015 1:40 AM	23-Jun-2015 4:51 PM	23-Jun-2015 4:51 PM	N
	G32085	NA	JW-CPT05	WG	JW-CPT05-130	S-1036.06	G32032	1/1	17-Jun-2015 2:30 AM	23-Jun-2015 5:20 PM	23-Jun-2015 5:20 PM	N
	G32085	NA	JW-CPT05	WG	JW-CPT05-60	S-1036.01	G32032	1/1	16-Jun-2015 10:50 PM	23-Jun-2015 2:54 PM	23-Jun-2015 2:54 PM	N
	G32085	NA	JW-CPT05	WG	JW-CPT05-75	S-1036.02	G32032	1/1	16-Jun-2015 11:35 PM	23-Jun-2015 3:23 PM	23-Jun-2015 3:23 PM	N
	G32085	NA	JW-CPT05	WG	JW-CPT05-90	S-1036.03	G32032	1/1	17-Jun-2015 12:30 AM	23-Jun-2015 3:53 PM	23-Jun-2015 3:53 PM	N
	G32085	NA	JW-CPT05	WG	JW-CPT05-91	S-1036.04	G32032	1/1	17-Jun-2015 12:35 AM	23-Jun-2015 4:22 PM	23-Jun-2015 4:22 PM	FD
	G32085	NA	LABQC	WQ	LABQC	VBLK8G	G32032	1/1	23-Jun-2015 11:40 AM	23-Jun-2015 11:40 AM	23-Jun-2015 11:40 AM	LB
G32100	G32103	NA	FIELDQC	WQ	JW-RL03-0615	S-1043.07	G32032	1/1	17-Jun-2015 9:45 PM	26-Jun-2015 5:05 PM	26-Jun-2015 5:05 PM	TB
	G32103	NA	LABQC	WQ	LABQC	VBLK8J	G32032	1/1	26-Jun-2015 1:11 PM	26-Jun-2015 1:11 PM	26-Jun-2015 1:11 PM	LB
G32113	G32120	NA	JW-CPT06	WG	JW-CPT06-75	S-1044.01	G32119	1/1	19-Jun-2015 4:30 AM	28-Jun-2015 7:02 PM	28-Jun-2015 7:02 PM	N
	G32120	NA	JW-CPT08	WG	JW-CPT08-105	S-1043.04	G32119	1/1	18-Jun-2015 12:17 AM	28-Jun-2015 5:36 PM	28-Jun-2015 5:36 PM	N
	G32120	NA	JW-CPT08	WG	JW-CPT08-106	S-1043.05	G32119	1/1	18-Jun-2015 12:25 AM	28-Jun-2015 6:05 PM	28-Jun-2015 6:05 PM	FD
	G32120	NA	JW-CPT08	WG	JW-CPT08-130	S-1043.06	G32119	1/1	18-Jun-2015 1:15 AM	28-Jun-2015 6:33 PM	28-Jun-2015 6:33 PM	N
	G32120	NA	JW-CPT08	WG	JW-CPT08-60	S-1043.01	G32119	1/1	17-Jun-2015 10:20 PM	28-Jun-2015 4:09 PM	28-Jun-2015 4:09 PM	N
	G32120	NA	JW-CPT08	WG	JW-CPT08-75	S-1043.02	G32119	1/1	17-Jun-2015 11:00 PM	28-Jun-2015 4:38 PM	28-Jun-2015 4:38 PM	N
	G32120	NA	JW-CPT08	WG	JW-CPT08-90	S-1043.03	G32119	1/1	17-Jun-2015 11:40 PM	28-Jun-2015 5:07 PM	28-Jun-2015 5:07 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9WP5

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32113	G32120	NA	LABQC	WQ	LABQC	VBLK8L	G32119	1/1	28-Jun-2015 2:42 PM	28-Jun-2015 2:42 PM	28-Jun-2015 2:42 PM	LB
G32132	G32134	NA	JW-CPT08	WG	JW-CPT08-106	S-1043.05MS	G32119	1/1	18-Jun-2015 12:25 AM	29-Jun-2015 3:07 PM	29-Jun-2015 3:07 PM	MS
	G32134	NA	JW-CPT08	WG	JW-CPT08-106	S-1043.05MSD	G32119	1/1	18-Jun-2015 12:25 AM	29-Jun-2015 3:35 PM	29-Jun-2015 3:35 PM	SD
	G32134	NA	LABQC	WQ	LABQC	VBLK8N	G32119	1/1	29-Jun-2015 11:24 AM	29-Jun-2015 11:24 AM	29-Jun-2015 11:24 AM	LB
G32186	G32189	NA	LABQC	WQ	LABQC	VBLK5T	G32119	1/1	01-Jul-2015 8:47 AM	01-Jul-2015 8:47 AM	01-Jul-2015 8:47 AM	LB
	G32189	NA	LABQC	WQ	LABQC	S-1033.06	G32119	1/1	01-Jul-2015 2:09 PM	01-Jul-2015 2:09 PM	01-Jul-2015 2:09 PM	LB

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	17061501		JW-CPT05	WG	JW-CPT05-105	S-1036.05	6/17/2015 1:40:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-130	S-1036.06	6/17/2015 2:30:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-60	S-1036.01	6/16/2015 10:50:00 PM	N
	17061501		JW-CPT05	WG	JW-CPT05-75	S-1036.02	6/16/2015 11:35:00 PM	N
	17061501		JW-CPT05	WG	JW-CPT05-90	S-1036.03	6/17/2015 12:30:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-91	S-1036.04	6/17/2015 12:35:00 AM	FD
	17061501		JW-CPT05	WG	JW-CPT05-105	S-1036.05	6/17/2015 1:40:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-130	S-1036.06	6/17/2015 2:30:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-60	S-1036.01	6/16/2015 10:50:00 PM	N
	17061501		JW-CPT05	WG	JW-CPT05-75	S-1036.02	6/16/2015 11:35:00 PM	N
	17061501		JW-CPT05	WG	JW-CPT05-90	S-1036.03	6/17/2015 12:30:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-91	S-1036.04	6/17/2015 12:35:00 AM	FD
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	17061501		FIELDQC	WQ	JW-RL02-0615	S-1036.07	6/17/2015 12:18:00 AM	TB
	17061501		JW-CPT05	WG	JW-CPT05-105	S-1036.05	6/17/2015 1:40:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-130	S-1036.06	6/17/2015 2:30:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-60	S-1036.01	6/16/2015 10:50:00 PM	N
	17061501		JW-CPT05	WG	JW-CPT05-75	S-1036.02	6/16/2015 11:35:00 PM	N
	17061501		JW-CPT05	WG	JW-CPT05-90	S-1036.03	6/17/2015 12:30:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-91	S-1036.04	6/17/2015 12:35:00 AM	FD
	17061501		FIELDQC	WQ	JW-RL03-0615	S-1043.07	6/17/2015 9:45:00 PM	TB
	17061501		JW-CPT05	WG	JW-CPT05-105	S-1036.05	6/17/2015 1:40:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-130	S-1036.06	6/17/2015 2:30:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-60	S-1036.01	6/16/2015 10:50:00 PM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	17061501		JW-CPT05	WG	JW-CPT05-75	S-1036.02	6/16/2015 11:35:00 PM	N
	17061501		JW-CPT05	WG	JW-CPT05-90	S-1036.03	6/17/2015 12:30:00 AM	N
	17061501		JW-CPT05	WG	JW-CPT05-91	S-1036.04	6/17/2015 12:35:00 AM	FD

AUTOMATED DATA REVIEW SUMMARY for Y9WP5

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Field Duplicate RPD	S-1033.02 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	27.3	RPD	None/None	< 25	< 50	D5		RPD	
BNASIM / SW3510C	Field Duplicate RPD	S-1036.04 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	200	RPD	None/None	< 25	< 50	D5		RPD	
BNASIM / SW3510C	Field Duplicate RPD	S-1043.05 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	72.0	RPD	None/None	< 25	< 50	D5		RPD	
BNASIM / SW3510C	Surrogate	JW-CPT05-60 (N)	1 / 10.00	1,4-Dioxane-d8	0.00	Percent	J/R	40 - 150	10 - 160	S	Diluted Out	2.00	
CVOL / METHOD	Blank	VBLK5T (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.270	ug/L	U/None	< 0.2	< 0.5	B1		1	0.270
CVOL / METHOD	Blank	VBLK8G (LB)	1 / 1.00	Methylene Chloride	0.390	ug/L	U/None	< 0.1	< 0.5	B1		2	0.780
CVOL / METHOD	Blank	VBLK8J (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.430	ug/L	U/None	< 0.3	< 0.5	B1		1	0.430
CVOL / METHOD	Blank	VBLK8J (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.310	ug/L	U/None	< 0.2	< 0.5	B1		1	0.310
CVOL / METHOD	Blank	VBLK8N (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.220	ug/L	U/None	< 0.2	< 0.5	B1		1	0.220
CVOL / METHOD	Field Duplicate RPD	S-1033.02 (N)	1 / 1.00	Cyclohexane	70.0	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	Field Duplicate RPD	S-1036.04 (N)	1 / 1.00	cis-1,2-Dichloroethylene	200	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	Field Duplicate RPD	S-1036.04 (N)	1 / 1.00	Trichloroethene (TCE)	200	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	MS Recovery	JW-CPT08-106 (MS)	1 / 1.00	1,1-Dichloroethene	66.0	Percent	J/UJ	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	JW-CPT08-106 (SD)	1 / 1.00	1,1-Dichloroethene	68.0	Percent	J/UJ	70 - 130	20 - 140	M			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT04-60	N	1,4-Dioxane (p-Dioxane)	0.50	7.9 D	7.9 J	ug/L	S
BNASIM/NONE	WG	JW-CPT05-90	N	1,4-Dioxane (p-Dioxane)	0.50	0.44 J	0.44 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT08-105	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.6 J	ug/L	D5
BNASIM/NONE	WG	JW-CPT08-106	FD	1,4-Dioxane (p-Dioxane)	0.50	3.4	3.4 J	ug/L	D5
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WG	JW-CPT04-61	FD	Cyclohexane	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	JW-CPT05-105	N	1,2-Dichloropropane	0.50	0.28 J	0.28 J	ug/L	TR
CVOL/NONE	WG	JW-CPT05-75	N	Trichloroethene (TCE)	0.50	0.32 J	0.32 J	ug/L	TR
CVOL/NONE	WG	JW-CPT05-90	N	cis-1,2-Dichloroethylene	0.50	0.21 J	0.21 J	ug/L	TR
CVOL/NONE	WG	JW-CPT05-90	N	Trichloroethene (TCE)	0.50	0.20 J	0.20 J	ug/L	TR
CVOL/NONE	WG	JW-CPT08-75	N	cis-1,2-Dichloroethylene	0.50	0.39 J	0.39 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT04-60	N	1,4-Dioxane (p-Dioxane)	0.50	7.9 D	7.9 J	ug/L	S
BNASIM/NONE	WG	JW-CPT04-61	FD	1,4-Dioxane (p-Dioxane)	0.50	6.0	6.0	ug/L	
BNASIM/NONE	WG	JW-CPT05-105	N	1,4-Dioxane (p-Dioxane)	0.50	0.90	0.90	ug/L	
BNASIM/NONE	WG	JW-CPT05-60	N	1,4-Dioxane (p-Dioxane)	0.50	16.0 D	16.0	ug/L	
BNASIM/NONE	WG	JW-CPT05-75	N	1,4-Dioxane (p-Dioxane)	0.50	3.0	3.0	ug/L	
BNASIM/NONE	WG	JW-CPT05-90	N	1,4-Dioxane (p-Dioxane)	0.50	0.44 J	0.44 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT08-105	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.6 J	ug/L	D5
BNASIM/NONE	WG	JW-CPT08-106	FD	1,4-Dioxane (p-Dioxane)	0.50	3.4	3.4 J	ug/L	D5
BNASIM/NONE	WG	JW-CPT08-75	N	1,4-Dioxane (p-Dioxane)	0.50	1.0	1.0	ug/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT04-60	N	Acetone	5.0	5.7	5.7	ug/L	
CVOL/NONE	WG	JW-CPT04-60	N	Cyclohexane	0.50	0.54	0.54	ug/L	
CVOL/NONE	WG	JW-CPT04-60	N	1,1-Dichloroethane	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	JW-CPT04-60	N	cis-1,2-Dichloroethylene	0.50	2.1	2.1	ug/L	
CVOL/NONE	WG	JW-CPT04-60	N	Trichloroethene (TCE)	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	JW-CPT04-61	FD	Acetone	5.0	7.5	7.5	ug/L	
CVOL/NONE	WG	JW-CPT04-61	FD	Cyclohexane	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	JW-CPT04-61	FD	1,1-Dichloroethane	0.50	1.6	1.6	ug/L	
CVOL/NONE	WG	JW-CPT04-61	FD	cis-1,2-Dichloroethylene	0.50	1.8	1.8	ug/L	
CVOL/NONE	WG	JW-CPT04-61	FD	Trichloroethene (TCE)	0.50	0.82	0.82	ug/L	
CVOL/NONE	WG	JW-CPT04-75	N	Acetone	5.0	6.9	6.9	ug/L	
CVOL/NONE	WG	JW-CPT04-90	N	Acetone	5.0	6.1	6.1	ug/L	
CVOL/NONE	WG	JW-CPT04-90	N	1,2-Dichloroethane	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	JW-CPT05-105	N	Cyclohexane	0.50	0.62	0.62	ug/L	
CVOL/NONE	WG	JW-CPT05-105	N	1,2-Dichloroethane	0.50	4.1	4.1	ug/L	
CVOL/NONE	WG	JW-CPT05-105	N	1,2-Dichloropropane	0.50	0.28 J	0.28 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9WP5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT05-130	N	Benzene	0.50	0.66	0.66	ug/L	
CVOL/NONE	WG	JW-CPT05-130	N	1,2-Dichloroethane	0.50	1.7	1.7	ug/L	
CVOL/NONE	WG	JW-CPT05-60	N	Acetone	5.0	5.2	5.2	ug/L	
CVOL/NONE	WG	JW-CPT05-60	N	1,1-Dichloroethane	0.50	2.8	2.8	ug/L	
CVOL/NONE	WG	JW-CPT05-60	N	1,1-Dichloroethene	0.50	3.8	3.8	ug/L	
CVOL/NONE	WG	JW-CPT05-60	N	cis-1,2-Dichloroethylene	0.50	0.71	0.71	ug/L	
CVOL/NONE	WG	JW-CPT05-60	N	Trichloroethene (TCE)	0.50	6.8	6.8	ug/L	
CVOL/NONE	WG	JW-CPT05-75	N	1,1-Dichloroethane	0.50	0.67	0.67	ug/L	
CVOL/NONE	WG	JW-CPT05-75	N	1,2-Dichloroethane	0.50	1.8	1.8	ug/L	
CVOL/NONE	WG	JW-CPT05-75	N	Trichloroethene (TCE)	0.50	0.32 J	0.32 J	ug/L	TR
CVOL/NONE	WG	JW-CPT05-90	N	1,2-Dichloroethane	0.50	3.6	3.6	ug/L	
CVOL/NONE	WG	JW-CPT05-90	N	cis-1,2-Dichloroethylene	0.50	0.21 J	0.21 J	ug/L	TR
CVOL/NONE	WG	JW-CPT05-90	N	Trichloroethene (TCE)	0.50	0.20 J	0.20 J	ug/L	TR
CVOL/NONE	WG	JW-CPT05-91	FD	1,2-Dichloroethane	0.50	3.7	3.7	ug/L	
CVOL/NONE	WG	JW-CPT06-75	N	1,2-Dichloroethane	0.50	4.1	4.1	ug/L	
CVOL/NONE	WG	JW-CPT08-105	N	1,2-Dichloroethane	0.50	5.8	5.8	ug/L	
CVOL/NONE	WG	JW-CPT08-106	FD	1,2-Dichloroethane	0.50	6.2	6.2	ug/L	
CVOL/NONE	WG	JW-CPT08-60	N	cis-1,2-Dichloroethylene	0.50	1.0	1.0	ug/L	
CVOL/NONE	WG	JW-CPT08-60	N	Trichloroethene (TCE)	0.50	2.6	2.6	ug/L	
CVOL/NONE	WG	JW-CPT08-75	N	1,2-Dichloroethane	0.50	15.0	15.0	ug/L	
CVOL/NONE	WG	JW-CPT08-75	N	cis-1,2-Dichloroethylene	0.50	0.39 J	0.39 J	ug/L	TR
CVOL/NONE	WG	JW-CPT08-90	N	1,2-Dichloroethane	0.50	5.0	5.0	ug/L	
CVOL/NONE	WG	JW-CPT08-90	N	cis-1,2-Dichloroethylene	0.50	1.5	1.5	ug/L	
CVOL/NONE	WG	JW-CPT08-90	N	Trichloroethene (TCE)	0.50	0.54	0.54	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9WP5

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9WR1

Facility: Jervis Webb Superfund Site
June 2015 CPT Groundwater Sampling

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: Y9WR1, Certified - 9/29/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: October 20, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9WR1

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	14	3
CVOL/NONE	14	6

AUTOMATED DATA REVIEW SUMMARY for Y9WR1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) Y9WR1. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- LCS Recovery
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9WR1

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 217 results (20.53%) out of the 1057 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the KAP lab report case narrative, EXES validation report, and the COC as received.

Four samples for VOCs analysis were received at elevated pH (> 5.6), resulting in all data being estimated (J/UJ) biased low (-) for holding time exceedance (H1) for under-acidified samples. Some bottle breakages still allowed for sample analysis.

Data qualifiers were also added to detected (J) 1,4-dioxane results due to detection in an equipment rinsate sample (K1).

No results were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.10.20 16:56:37 -07'00'

20-Oct-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C21657	C21744	NA	FIELDQC	WQ	JW-EL01-0615	S-1048.07	C21641	1/1	22-Jun-2015 2:30 PM	24-Jun-2015 1:48 PM	09-Jul-2015 10:16 PM	EB
	C21744	NA	JW-CPT06	WG	JW-CPT06-105	S-1045.02	C21641	1/1	19-Jun-2015 5:45 AM	24-Jun-2015 1:48 PM	09-Jul-2015 7:14 PM	N
	C21744	NA	JW-CPT06	WG	JW-CPT06-130	S-1045.03	C21641	1/1	19-Jun-2015 6:20 AM	24-Jun-2015 1:48 PM	09-Jul-2015 7:27 PM	N
	C21744	NA	JW-CPT06	WG	JW-CPT06-90	S-1045.01	C21641	1/1	19-Jun-2015 4:55 AM	24-Jun-2015 1:48 PM	09-Jul-2015 7:01 PM	N
	C21744	NA	JW-CPT07	WG	JW-CPT07-105	S-1045.08	C21641	1/1	19-Jun-2015 1:40 AM	24-Jun-2015 1:48 PM	09-Jul-2015 8:32 PM	N
	C21744	NA	JW-CPT07	WG	JW-CPT07-130	S-1045.09	C21641	1/1	19-Jun-2015 2:25 AM	24-Jun-2015 1:48 PM	09-Jul-2015 8:46 PM	N
	C21744	NA	JW-CPT07	WG	JW-CPT07-60	S-1045.04	C21641	1/1	18-Jun-2015 11:00 PM	24-Jun-2015 1:48 PM	09-Jul-2015 7:40 PM	N
	C21744	NA	JW-CPT07	WG	JW-CPT07-75	S-1045.05	C21641	1/1	18-Jun-2015 11:45 PM	24-Jun-2015 1:48 PM	09-Jul-2015 7:53 PM	N
	C21744	NA	JW-CPT07	WG	JW-CPT07-90	S-1045.07	C21641	1/1	19-Jun-2015 12:55 AM	24-Jun-2015 1:48 PM	09-Jul-2015 8:19 PM	N
	C21744	NA	JW-CPT09	WG	JW-CPT09-75	S-1058.01	C21641	1/1	23-Jun-2015 11:10 AM	24-Jun-2015 1:48 PM	09-Jul-2015 10:30 PM	N
	C21744	NA	JW-CPT10	WG	JW-CPT10-130	S-1048.06	C21641	1/1	22-Jun-2015 2:20 PM	24-Jun-2015 1:48 PM	09-Jul-2015 10:03 PM	N
	C21744	NA	JW-CPT10	WG	JW-CPT10-60	S-1048.01	C21641	1/1	22-Jun-2015 10:55 AM	24-Jun-2015 1:48 PM	09-Jul-2015 8:59 PM	N
	C21744	NA	JW-CPT10	WG	JW-CPT10-75	S-1048.02	C21641	1/1	22-Jun-2015 11:30 AM	24-Jun-2015 1:48 PM	09-Jul-2015 9:11 PM	N
	C21744	NA	JW-CPT10	WG	JW-CPT10-76	S-1048.03	C21641	1/1	22-Jun-2015 11:35 AM	24-Jun-2015 1:48 PM	09-Jul-2015 9:24 PM	FD
	C21744	NA	JW-CPT10	WG	JW-CPT10-90	S-1048.04	C21641	1/1	22-Jun-2015 12:50 PM	24-Jun-2015 1:48 PM	09-Jul-2015 9:37 PM	N
C21699	C21744	NA	JW-CPT10	WG	JW-CPT10-105	S-1048.05	C21641	1/1	22-Jun-2015 1:30 PM	24-Jun-2015 1:48 PM	10-Jul-2015 4:15 PM	N
	C21744	NA	LABQC	WQ	LABQC	SBLK49	C21641	1/1	24-Jun-2015 1:48 PM	24-Jun-2015 1:48 PM	10-Jul-2015 8:00 PM	LB
C21765	C21744	NA	JW-CPT07	WG	JW-CPT07-76	S-1045.06	C21641	1/1	18-Jun-2015 11:50 PM	24-Jun-2015 1:48 PM	13-Jul-2015 1:02 PM	FD

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32100	G32103	NA	JW-CPT07	WG	JW-CPT07-90	S-1045.07	G32032	1/1	19-Jun-2015 12:55 AM	26-Jun-2015 5:33 PM	26-Jun-2015 5:33 PM	N

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32100	G32103	NA	LABQC	WQ	LABQC	VBLK8J	G32032	1/1	26-Jun-2015 1:11 PM	26-Jun-2015 1:11 PM	26-Jun-2015 1:11 PM	LB
G32132	G32134	NA	FIELDQC	WQ	JW-RL04-0615	S-1045.10	G32119	1/1	18-Jun-2015 12:00 AM	29-Jun-2015 5:02 PM	29-Jun-2015 5:02 PM	TB
	G32134	NA	FIELDQC	WQ	JW-RL05-0615	S-1045.11	G32119	1/1	19-Jun-2015 12:00 AM	29-Jun-2015 5:31 PM	29-Jun-2015 5:31 PM	TB
	G32134	NA	JW-CPT06	WG	JW-CPT06-105	S-1045.02	G32119	1/1	19-Jun-2015 5:45 AM	29-Jun-2015 12:25 PM	29-Jun-2015 12:25 PM	N
	G32134	NA	JW-CPT06	WG	JW-CPT06-130	S-1045.03	G32119	1/1	19-Jun-2015 6:20 AM	29-Jun-2015 12:54 PM	29-Jun-2015 12:54 PM	N
	G32134	NA	JW-CPT06	WG	JW-CPT06-90	S-1045.01	G32119	1/1	19-Jun-2015 4:55 AM	29-Jun-2015 11:56 AM	29-Jun-2015 11:56 AM	N
	G32134	NA	JW-CPT07	WG	JW-CPT07-105	S-1045.08	G32119	1/1	19-Jun-2015 1:40 AM	29-Jun-2015 4:04 PM	29-Jun-2015 4:04 PM	N
	G32134	NA	JW-CPT07	WG	JW-CPT07-130	S-1045.09	G32119	1/1	19-Jun-2015 2:25 AM	29-Jun-2015 4:34 PM	29-Jun-2015 4:34 PM	N
	G32134	NA	JW-CPT07	WG	JW-CPT07-75	S-1045.05	G32119	1/1	18-Jun-2015 11:45 PM	29-Jun-2015 1:52 PM	29-Jun-2015 1:52 PM	N
	G32134	NA	JW-CPT07	WG	JW-CPT07-76	S-1045.06	G32119	1/1	18-Jun-2015 11:50 PM	29-Jun-2015 2:21 PM	29-Jun-2015 2:21 PM	FD
	G32134	NA	LABQC	WQ	LABQC	VBLK8N	G32119	1/1	29-Jun-2015 11:24 AM	29-Jun-2015 11:24 AM	29-Jun-2015 11:24 AM	LB
G32154	G32156	NA	JW-CPT07	WG	JW-CPT07-60	S-1045.04	G32119	1/1	18-Jun-2015 11:00 PM	30-Jun-2015 11:42 AM	30-Jun-2015 11:42 AM	N
	G32156	NA	LABQC	WQ	LABQC	VBLK8P	G32119	1/1	30-Jun-2015 10:40 AM	30-Jun-2015 10:40 AM	30-Jun-2015 10:40 AM	LB
G32165	G32168	NA	JW-CPT10	WG	JW-CPT10-105	S-1048.05	G32119	1/1	22-Jun-2015 1:30 PM	01-Jul-2015 4:18 AM	01-Jul-2015 4:18 AM	N
	G32168	NA	JW-CPT10	WG	JW-CPT10-130	S-1048.06	G32119	1/1	22-Jun-2015 2:20 PM	01-Jul-2015 4:46 AM	01-Jul-2015 4:46 AM	N
	G32168	NA	JW-CPT10	WG	JW-CPT10-76	S-1048.03	G32119	1/1	22-Jun-2015 11:35 AM	01-Jul-2015 3:20 AM	01-Jul-2015 3:20 AM	FD
	G32168	NA	JW-CPT10	WG	JW-CPT10-90	S-1048.04	G32119	1/1	22-Jun-2015 12:50 PM	01-Jul-2015 3:49 AM	01-Jul-2015 3:49 AM	N
	G32168	NA	LABQC	WQ	LABQC	VBLK5R	G32119	1/1	30-Jun-2015 8:40 PM	30-Jun-2015 8:40 PM	30-Jun-2015 8:40 PM	LB
G32186	G32189	NA	FIELDQC	WQ	JW-EL01-0615	S-1048.07	G32119	1/1	22-Jun-2015 2:30 PM	01-Jul-2015 11:12 AM	01-Jul-2015 11:12 AM	EB
	G32189	NA	FIELDQC	WQ	JW-RL06-0615	S-1048.08	G32119	1/1	22-Jun-2015 7:55 AM	01-Jul-2015 11:40 AM	01-Jul-2015 11:40 AM	TB
	G32189	NA	JW-CPT10	WG	JW-CPT10-60	S-1048.01	G32119	1/1	22-Jun-2015 10:55 AM	01-Jul-2015 12:12 PM	01-Jul-2015 12:12 PM	N
	G32189	NA	JW-CPT10	WG	JW-CPT10-75	S-1048.02	G32119	1/1	22-Jun-2015 11:30 AM	01-Jul-2015 12:40 PM	01-Jul-2015 12:40 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9WR1

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32186	G32189	NA	LABQC	WQ	LABQC	VBLK5T	G32119	1/1	01-Jul-2015 8:47 AM	01-Jul-2015 8:47 AM	01-Jul-2015 8:47 AM	LB
G32213	G32221	NA	JW-CPT09	WG	JW-CPT09-75	S-1058.01	G32219	1/1	23-Jun-2015 11:10 AM	03-Jul-2015 5:52 PM	03-Jul-2015 5:52 PM	N
	G32221	NA	LABQC	WQ	LABQC	VBLK5W	G32219	1/1	03-Jul-2015 3:26 PM	03-Jul-2015 3:26 PM	03-Jul-2015 3:26 PM	LB
G32340	G32342	NA	JW-CPT09	WG	JW-CPT09-75	S-1058.01MS	G32331	1/1	23-Jun-2015 11:10 AM	14-Jul-2015 1:43 PM	14-Jul-2015 1:43 PM	MS
	G32342	NA	JW-CPT09	WG	JW-CPT09-75	S-1058.01MSD	G32331	1/1	23-Jun-2015 11:10 AM	14-Jul-2015 2:12 PM	14-Jul-2015 2:12 PM	SD
	G32342	NA	LABQC	WQ	LABQC	VBLK6M	G32331	1/1	14-Jul-2015 1:05 PM	14-Jul-2015 1:05 PM	14-Jul-2015 1:05 PM	LB
	G32342	NA	LABQC	WQ	LABQC	S-1045.12	G32331	1/1	14-Jul-2015 2:41 PM	14-Jul-2015 2:41 PM	14-Jul-2015 2:41 PM	LB

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
22061501			FIELDQC	WQ	JW-EL01-0615	S-1048.07	6/22/2015 2:30:00 PM	EB
22061501			JW-CPT10	WG	JW-CPT10-105	S-1048.05	6/22/2015 1:30:00 PM	N
22061501			JW-CPT10	WG	JW-CPT10-130	S-1048.06	6/22/2015 2:20:00 PM	N
22061501			JW-CPT10	WG	JW-CPT10-60	S-1048.01	6/22/2015 10:55:00 AM	N
22061501			JW-CPT10	WG	JW-CPT10-75	S-1048.02	6/22/2015 11:30:00 AM	N
22061501			JW-CPT10	WG	JW-CPT10-76	S-1048.03	6/22/2015 11:35:00 AM	FD
22061501			JW-CPT10	WG	JW-CPT10-90	S-1048.04	6/22/2015 12:50:00 PM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
22061501			FIELDQC	WQ	JW-EL01-0615	S-1048.07	6/22/2015 2:30:00 PM	EB
22061501			JW-CPT10	WG	JW-CPT10-105	S-1048.05	6/22/2015 1:30:00 PM	N
22061501			JW-CPT10	WG	JW-CPT10-130	S-1048.06	6/22/2015 2:20:00 PM	N
22061501			JW-CPT10	WG	JW-CPT10-60	S-1048.01	6/22/2015 10:55:00 AM	N
22061501			JW-CPT10	WG	JW-CPT10-75	S-1048.02	6/22/2015 11:30:00 AM	N
22061501			JW-CPT10	WG	JW-CPT10-76	S-1048.03	6/22/2015 11:35:00 AM	FD
22061501			JW-CPT10	WG	JW-CPT10-90	S-1048.04	6/22/2015 12:50:00 PM	N

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	22061501		JW-CPT10	WG	JW-CPT10-105	S-1048.05	6/22/2015 1:30:00 PM	N
	22061501		JW-CPT10	WG	JW-CPT10-130	S-1048.06	6/22/2015 2:20:00 PM	N
	22061501		JW-CPT10	WG	JW-CPT10-60	S-1048.01	6/22/2015 10:55:00 AM	N
	22061501		JW-CPT10	WG	JW-CPT10-75	S-1048.02	6/22/2015 11:30:00 AM	N
	22061501		JW-CPT10	WG	JW-CPT10-76	S-1048.03	6/22/2015 11:35:00 AM	FD
	22061501		JW-CPT10	WG	JW-CPT10-90	S-1048.04	6/22/2015 12:50:00 PM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	22061501		FIELDQC	WQ	JW-RL06-0615	S-1048.08	6/22/2015 7:55:00 AM	TB
	22061501		JW-CPT10	WG	JW-CPT10-105	S-1048.05	6/22/2015 1:30:00 PM	N
	22061501		JW-CPT10	WG	JW-CPT10-130	S-1048.06	6/22/2015 2:20:00 PM	N
	22061501		JW-CPT10	WG	JW-CPT10-60	S-1048.01	6/22/2015 10:55:00 AM	N
	22061501		JW-CPT10	WG	JW-CPT10-75	S-1048.02	6/22/2015 11:30:00 AM	N
	22061501		JW-CPT10	WG	JW-CPT10-76	S-1048.03	6/22/2015 11:35:00 AM	FD
	22061501		JW-CPT10	WG	JW-CPT10-90	S-1048.04	6/22/2015 12:50:00 PM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	19061501		JW-CPT06	WG	JW-CPT06-105	S-1045.02	6/19/2015 5:45:00 AM	N
	19061501		JW-CPT06	WG	JW-CPT06-130	S-1045.03	6/19/2015 6:20:00 AM	N
	19061501		JW-CPT06	WG	JW-CPT06-90	S-1045.01	6/19/2015 4:55:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	19061501		FIELDQC	WQ	JW-RL05-0615	S-1045.11	6/19/2015 12:00:00 AM	TB
	19061501		JW-CPT06	WG	JW-CPT06-105	S-1045.02	6/19/2015 5:45:00 AM	N
	19061501		JW-CPT06	WG	JW-CPT06-130	S-1045.03	6/19/2015 6:20:00 AM	N
	19061501		JW-CPT06	WG	JW-CPT06-90	S-1045.01	6/19/2015 4:55:00 AM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	18061501		JW-CPT07	WG	JW-CPT07-105	S-1045.08	6/19/2015 1:40:00 AM	N
	18061501		JW-CPT07	WG	JW-CPT07-130	S-1045.09	6/19/2015 2:25:00 AM	N
	18061501		JW-CPT07	WG	JW-CPT07-60	S-1045.04	6/18/2015 11:00:00 PM	N

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	18061501		JW-CPT07	WG	JW-CPT07-75	S-1045.05	6/18/2015 11:45:00 PM	N
	18061501		JW-CPT07	WG	JW-CPT07-76	S-1045.06	6/18/2015 11:50:00 PM	FD
	18061501		JW-CPT07	WG	JW-CPT07-90	S-1045.07	6/19/2015 12:55:00 AM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	18061501		FIELDQC	WQ	JW-RL04-0615	S-1045.10	6/18/2015 12:00:00 AM	TB
	18061501		JW-CPT07	WG	JW-CPT07-105	S-1045.08	6/19/2015 1:40:00 AM	N
	18061501		JW-CPT07	WG	JW-CPT07-130	S-1045.09	6/19/2015 2:25:00 AM	N
	18061501		JW-CPT07	WG	JW-CPT07-60	S-1045.04	6/18/2015 11:00:00 PM	N
	18061501		JW-CPT07	WG	JW-CPT07-75	S-1045.05	6/18/2015 11:45:00 PM	N
	18061501		JW-CPT07	WG	JW-CPT07-76	S-1045.06	6/18/2015 11:50:00 PM	FD
	18061501		JW-CPT07	WG	JW-CPT07-90	S-1045.07	6/19/2015 12:55:00 AM	N

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Equipment Blank	JW-EL01-0615 (EB)	1 / 1.00	1,4-Dioxane (p-Dioxane)	2.80	ug/L	U/None	< 0.25	< 0.5	K1	Blank is over 3X RL	1	2.80
BNASIM / SW3510C	Field Duplicate RPD	S-1045.06 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	200	RPD	None/None	< 25	< 50	D5		RPD	
CVOL / METHOD	Blank	S-1045.12 (LB)	1 / 1.00	Methylene Chloride	0.210	ug/L	U/None	< 0.1	< 0.5	B1		2	0.420
CVOL / METHOD	Blank	VBLK5R (LB)	1 / 1.00	Methylene Chloride	0.200	ug/L	U/None	< 0.1	< 0.5	B1		2	0.400
CVOL / METHOD	Blank	VBLK5R (LB)	1 / 1.00	Tetrachloroethene (PCE)	0.340	ug/L	U/None	< 0.2	< 0.5	B1		1	0.340
CVOL / METHOD	Blank	VBLK5T (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.270	ug/L	U/None	< 0.2	< 0.5	B1		1	0.270
CVOL / METHOD	Blank	VBLK6M (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.210	ug/L	U/None	< 0.2	< 0.5	B1		1	0.210
CVOL / METHOD	Blank	VBLK6M (LB)	1 / 1.00	Methylene Chloride	0.250	ug/L	U/None	< 0.1	< 0.5	B1		2	0.500
CVOL / METHOD	Blank	VBLK8J (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.430	ug/L	U/None	< 0.3	< 0.5	B1		1	0.430
CVOL / METHOD	Blank	VBLK8J (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.310	ug/L	U/None	< 0.2	< 0.5	B1		1	0.310
CVOL / METHOD	Blank	VBLK8N (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.220	ug/L	U/None	< 0.2	< 0.5	B1		1	0.220
CVOL / METHOD	Equipment Blank	JW-EL01-0615 (EB)	1 / 1.00	Toluene	1.00	ug/L	U/None	< 0.2	< 0.5	K1		1	1.00
CVOL / METHOD	Surrogate	JW-CPT07-75 (N)	1 / 1.00	1,2-Dichloroethane-d4	134	Percent	J/None	70 - 130	20 - 140	S			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT07-76	FD	1,4-Dioxane (p-Dioxane)	0.50	0.52	0.50 U	ug/L	K1
BNASIM/NONE	WG	JW-CPT07-90	N	1,4-Dioxane (p-Dioxane)	0.50	2.6	0.50 U	ug/L	K1
BNASIM/NONE	WG	JW-CPT10-130	N	1,4-Dioxane (p-Dioxane)	1.9	1.9	1.9 U	ug/L	K1
BNASIM/NONE	WG	JW-CPT10-60	N	1,4-Dioxane (p-Dioxane)	0.74	0.74	0.74 U	ug/L	K1
BNASIM/NONE	WG	JW-CPT10-90	N	1,4-Dioxane (p-Dioxane)	0.90	0.90	0.90 U	ug/L	K1
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WG	JW-CPT06-105	N	1,1-Dichloroethene	0.50	0.29 J	0.29 J	ug/L	TR
CVOL/NONE	WG	JW-CPT06-105	N	1,2-Dichloropropane	0.50	0.34 J	0.34 J	ug/L	TR
CVOL/NONE	WG	JW-CPT06-90	N	cis-1,2-Dichloroethylene	0.50	0.34 J	0.34 J	ug/L	TR
CVOL/NONE	WG	JW-CPT07-130	N	Trichloroethene (TCE)	0.50	0.39 J	0.39 J	ug/L	TR
CVOL/NONE	WG	JW-CPT07-60	N	1,1-Dichloroethene	0.50	1.7	1.7 J	ug/L	H1
CVOL/NONE	WG	JW-CPT07-60	N	Acetone	5.0	4.1 J	4.1 J	ug/L	TR/H1
CVOL/NONE	WG	JW-CPT07-60	N	cis-1,2-Dichloroethylene	0.50	1.6	1.6 J	ug/L	H1
CVOL/NONE	WG	JW-CPT07-60	N	Trichloroethene (TCE)	0.50	19.0	19.0 J	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,2-Dichloroethane	0.50	5.1	5.1 J	ug/L	H1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT07-75	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Acetone	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Benzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	H1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT07-75	N	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Methylene Chloride	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Styrene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Toluene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,2-Dichloroethane	0.50	4.4	4.4 J	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1

AUTOMATED DATA REVIEW SUMMARY for Y9WR1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT07-76	FD	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Acetone	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Benzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Methylene Chloride	0.50	0.50 U	0.50 UJ	ug/L	H1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT07-76	FD	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Styrene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Toluene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,2-Dichloroethane	0.50	3.4	3.4 J	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	H1

AUTOMATED DATA REVIEW SUMMARY for Y9WR1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT07-90	N	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Acetone	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Benzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Methylene Chloride	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Styrene	0.50	0.50 U	0.50 UJ	ug/L	H1

AUTOMATED DATA REVIEW SUMMARY for Y9WR1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT07-90	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Toluene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-105	N	1,2-Dichloropropane	0.50	0.45 J	0.45 J	ug/L	TR
CVOL/NONE	WG	JW-CPT10-76	FD	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,2-Dichloroethane	0.50	7.2	7.2 J	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	H1

AUTOMATED DATA REVIEW SUMMARY for Y9WR1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT10-76	FD	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Acetone	5.0	8.4	8.4 J	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Benzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	cis-1,2-Dichloroethylene	0.50	1.8	1.8 J	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Methylene Chloride	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Styrene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	H1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT10-76	FD	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Toluene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Trichloroethene (TCE)	0.50	3.0	3.0 J	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	H1
CVOL/NONE	WG	JW-CPT10-90	N	Chlorobenzene	0.50	0.28 J	0.28 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT06-105	N	1,4-Dioxane (p-Dioxane)	0.50	3.4	3.4	ug/L	
BNASIM/NONE	WG	JW-CPT06-90	N	1,4-Dioxane (p-Dioxane)	0.50	5.6	5.6	ug/L	
BNASIM/NONE	WQ	JW-EL01-0615	EB	1,4-Dioxane (p-Dioxane)	0.50	2.8	2.8	ug/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT06-105	N	1,2-Dichloroethane	0.50	14.0	14.0	ug/L	
CVOL/NONE	WG	JW-CPT06-105	N	1,1-Dichloroethene	0.50	0.29 J	0.29 J	ug/L	TR
CVOL/NONE	WG	JW-CPT06-105	N	cis-1,2-Dichloroethylene	0.50	0.57	0.57	ug/L	
CVOL/NONE	WG	JW-CPT06-105	N	1,2-Dichloropropane	0.50	0.34 J	0.34 J	ug/L	TR
CVOL/NONE	WG	JW-CPT06-105	N	Trichloroethene (TCE)	0.50	1.4	1.4	ug/L	
CVOL/NONE	WG	JW-CPT06-90	N	1,2-Dichloroethane	0.50	5.6	5.6	ug/L	
CVOL/NONE	WG	JW-CPT06-90	N	cis-1,2-Dichloroethylene	0.50	0.34 J	0.34 J	ug/L	TR
CVOL/NONE	WG	JW-CPT06-90	N	Trichloroethene (TCE)	0.50	0.69	0.69	ug/L	
CVOL/NONE	WG	JW-CPT07-105	N	1,2-Dichloroethane	0.50	3.6	3.6	ug/L	
CVOL/NONE	WG	JW-CPT07-130	N	Acetone	5.0	10.0	10.0	ug/L	
CVOL/NONE	WG	JW-CPT07-130	N	1,2-Dichloroethane	0.50	9.4	9.4	ug/L	
CVOL/NONE	WG	JW-CPT07-130	N	cis-1,2-Dichloroethylene	0.50	0.71	0.71	ug/L	
CVOL/NONE	WG	JW-CPT07-130	N	Trichloroethene (TCE)	0.50	0.39 J	0.39 J	ug/L	TR
CVOL/NONE	WG	JW-CPT07-60	N	Acetone	5.0	4.1 J	4.1 J	ug/L	TR/H1
CVOL/NONE	WG	JW-CPT07-60	N	1,1-Dichloroethene	0.50	1.7	1.7 J	ug/L	H1
CVOL/NONE	WG	JW-CPT07-60	N	cis-1,2-Dichloroethylene	0.50	1.6	1.6 J	ug/L	H1
CVOL/NONE	WG	JW-CPT07-60	N	Trichloroethene (TCE)	0.50	19.0	19.0 J	ug/L	H1
CVOL/NONE	WG	JW-CPT07-75	N	1,2-Dichloroethane	0.50	5.1	5.1 J	ug/L	H1
CVOL/NONE	WG	JW-CPT07-76	FD	1,2-Dichloroethane	0.50	4.4	4.4 J	ug/L	H1
CVOL/NONE	WG	JW-CPT07-90	N	1,2-Dichloroethane	0.50	3.4	3.4 J	ug/L	H1
CVOL/NONE	WG	JW-CPT09-75	N	1,2-Dichloroethane	0.50	6.4	6.4	ug/L	
CVOL/NONE	WG	JW-CPT09-75	N	cis-1,2-Dichloroethylene	0.50	2.2	2.2	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9WR1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT10-105	N	1,2-Dichloroethane	0.50	8.9	8.9	ug/L	
CVOL/NONE	WG	JW-CPT10-105	N	1,2-Dichloropropane	0.50	0.45 J	0.45 J	ug/L	TR
CVOL/NONE	WG	JW-CPT10-60	N	Acetone	5.0	6.9	6.9	ug/L	
CVOL/NONE	WG	JW-CPT10-60	N	Cyclohexane	0.50	1.4	1.4	ug/L	
CVOL/NONE	WG	JW-CPT10-60	N	cis-1,2-Dichloroethylene	0.50	3.1	3.1	ug/L	
CVOL/NONE	WG	JW-CPT10-60	N	Trichloroethene (TCE)	0.50	7.7	7.7	ug/L	
CVOL/NONE	WG	JW-CPT10-75	N	Acetone	5.0	8.4	8.4	ug/L	
CVOL/NONE	WG	JW-CPT10-75	N	1,2-Dichloroethane	0.50	6.9	6.9	ug/L	
CVOL/NONE	WG	JW-CPT10-75	N	cis-1,2-Dichloroethylene	0.50	1.7	1.7	ug/L	
CVOL/NONE	WG	JW-CPT10-75	N	Trichloroethene (TCE)	0.50	3.1	3.1	ug/L	
CVOL/NONE	WG	JW-CPT10-76	FD	Acetone	5.0	8.4	8.4 J	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	1,2-Dichloroethane	0.50	7.2	7.2 J	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	cis-1,2-Dichloroethylene	0.50	1.8	1.8 J	ug/L	H1
CVOL/NONE	WG	JW-CPT10-76	FD	Trichloroethene (TCE)	0.50	3.0	3.0 J	ug/L	H1
CVOL/NONE	WG	JW-CPT10-90	N	Chlorobenzene	0.50	0.28 J	0.28 J	ug/L	TR
CVOL/NONE	WG	JW-CPT10-90	N	1,2-Dichloroethane	0.50	7.2	7.2	ug/L	
CVOL/NONE	WG	JW-CPT10-90	N	cis-1,2-Dichloroethylene	0.50	1.7	1.7	ug/L	
CVOL/NONE	WG	JW-CPT10-90	N	Trichloroethene (TCE)	0.50	0.79	0.79	ug/L	
CVOL/NONE	WQ	JW-EL01-0615	EB	Toluene	0.50	1.0	1.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9WR1

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9WW9

Facility: Jervis Webb Superfund Site
June 2015 CPT Groundwater Sampling

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: Y9WW9, Certified - 8/26/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: October 05, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9WW9

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	10	1
CVOL/NONE	10	3

AUTOMATED DATA REVIEW SUMMARY for Y9WW9

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) Y9WW9. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9WW9

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 9 results (1.31%) out of the 687 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked the CLP lab report case narrative, the EXES data validation report, and the COC as received.

No calibration anomalies or sample receipt issues (except for some bottle breakage) were noted.

Data qualifiers were added for an acetone detect in a trip blank (K3) and field duplicate imprecision (D5).

No data were rejected.

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.10.05 13:37:43 -07'00'

05-Oct-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9WW9

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C21699	C21742	NA	LABQC	WQ	LABQC	SLCS53	C21641	1/1	30-Jun-2015 2:05 PM	30-Jun-2015 2:05 PM	10-Jul-2015 7:33 PM	BS
	C21745	NA	JW-CPT11	WG	JW-CPT11-105	S-1069.06	C21641	1/1	29-Jun-2015 1:00 PM	30-Jun-2015 2:05 PM	10-Jul-2015 7:47 PM	N
	C21745	NA	JW-CPT11	WG	JW-CPT11-130	S-1069.05	C21641	1/1	29-Jun-2015 1:30 PM	30-Jun-2015 2:05 PM	10-Jul-2015 7:05 PM	N
	C21745	NA	JW-CPT11	WG	JW-CPT11-45	S-1069.01	C21641	1/1	29-Jun-2015 10:15 AM	30-Jun-2015 2:05 PM	10-Jul-2015 6:13 PM	N
	C21745	NA	JW-CPT11	WG	JW-CPT11-60	S-1069.02	C21641	1/1	29-Jun-2015 10:50 AM	30-Jun-2015 2:05 PM	10-Jul-2015 6:26 PM	N
	C21745	NA	JW-CPT11	WG	JW-CPT11-75	S-1069.03	C21641	1/1	29-Jun-2015 11:30 AM	30-Jun-2015 2:05 PM	10-Jul-2015 6:39 PM	N
	C21745	NA	JW-CPT11	WG	JW-CPT11-90	S-1069.04	C21641	1/1	29-Jun-2015 12:15 PM	30-Jun-2015 2:05 PM	10-Jul-2015 6:52 PM	N
	C21745	NA	JW-CPT12	WG	JW-CPT12-105	S-1068.04	C21641	1/1	26-Jun-2015 12:30 PM	30-Jun-2015 2:05 PM	10-Jul-2015 5:47 PM	N
	C21745	NA	JW-CPT12	WG	JW-CPT12-130	S-1068.05	C21641	1/1	26-Jun-2015 1:20 PM	30-Jun-2015 2:05 PM	10-Jul-2015 6:00 PM	N
	C21745	NA	JW-CPT12	WG	JW-CPT12-74	S-1068.01	C21641	1/1	26-Jun-2015 10:45 AM	30-Jun-2015 2:05 PM	10-Jul-2015 5:07 PM	FD
	C21745	NA	JW-CPT12	WG	JW-CPT12-75	S-1068.02	C21641	1/1	26-Jun-2015 10:00 AM	30-Jun-2015 2:05 PM	10-Jul-2015 5:20 PM	N
	C21745	NA	JW-CPT12	WG	JW-CPT12-90	S-1068.03	C21641	1/1	26-Jun-2015 11:22 AM	30-Jun-2015 2:05 PM	10-Jul-2015 5:33 PM	N
	C21745	NA	LABQC	WQ	LABQC	SBLK53	C21641	1/1	30-Jun-2015 2:05 PM	30-Jun-2015 2:05 PM	10-Jul-2015 8:13 PM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9WW9

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B01105	B01108	NA	FIELDQC	WQ	JW-RL11-0615	S-1074.07	B01085	1/1	29-Jun-2015 8:00 AM	07-Jul-2015 4:37 PM	07-Jul-2015 4:37 PM	TB
	B01108	NA	JW-CPT11	WG	JW-CPT11-105	S-1074.06	B01085	1/1	29-Jun-2015 1:00 PM	07-Jul-2015 4:03 PM	07-Jul-2015 4:03 PM	N
	B01108	NA	JW-CPT11	WG	JW-CPT11-130	S-1074.05	B01085	1/1	29-Jun-2015 1:30 PM	07-Jul-2015 3:32 PM	07-Jul-2015 3:32 PM	N
	B01108	NA	JW-CPT11	WG	JW-CPT11-45	S-1074.01	B01085	1/1	29-Jun-2015 10:15 AM	07-Jul-2015 1:32 PM	07-Jul-2015 1:32 PM	N
	B01108	NA	JW-CPT11	WG	JW-CPT11-60	S-1074.02	B01085	1/1	29-Jun-2015 10:50 AM	07-Jul-2015 2:05 PM	07-Jul-2015 2:05 PM	N
	B01108	NA	JW-CPT11	WG	JW-CPT11-75	S-1074.03	B01085	1/1	29-Jun-2015 11:30 AM	07-Jul-2015 2:37 PM	07-Jul-2015 2:37 PM	N
	B01108	NA	JW-CPT11	WG	JW-CPT11-90	S-1074.04	B01085	1/1	29-Jun-2015 12:15 PM	07-Jul-2015 6:16 PM	07-Jul-2015 6:16 PM	N
	B01108	NA	LABQC	WQ	LABQC	VBLK15	B01085	1/1	07-Jul-2015 11:50 AM	07-Jul-2015 11:50 AM	07-Jul-2015 11:50 AM	LB
G32271	G32274	NA	FIELDQC	WQ	JW-RL10-0615	S-1068.06	G32219	1/1	26-Jun-2015 7:45 AM	06-Jul-2015 5:52 AM	06-Jul-2015 5:52 AM	TB
	G32274	NA	JW-CPT12	WG	JW-CPT12-105	S-1068.04	G32219	1/1	26-Jun-2015 12:30 PM	06-Jul-2015 4:55 AM	06-Jul-2015 4:55 AM	N
	G32274	NA	JW-CPT12	WG	JW-CPT12-130	S-1068.05	G32219	1/1	26-Jun-2015 1:20 PM	06-Jul-2015 5:24 AM	06-Jul-2015 5:24 AM	N
	G32274	NA	JW-CPT12	WG	JW-CPT12-74	S-1068.01	G32219	1/1	26-Jun-2015 10:45 AM	06-Jul-2015 3:30 AM	06-Jul-2015 3:30 AM	FD
	G32274	NA	JW-CPT12	WG	JW-CPT12-75	S-1068.02	G32219	1/1	26-Jun-2015 10:00 AM	06-Jul-2015 3:58 AM	06-Jul-2015 3:58 AM	N
	G32274	NA	JW-CPT12	WG	JW-CPT12-90	S-1068.03	G32219	1/1	26-Jun-2015 11:22 AM	06-Jul-2015 4:27 AM	06-Jul-2015 4:27 AM	N
	G32274	NA	LABQC	WQ	LABQC	VBLK6C	G32219	1/1	06-Jul-2015 1:04 AM	06-Jul-2015 1:04 AM	06-Jul-2015 1:04 AM	LB
G32314	G32317	NA	JW-CPT11	WG	JW-CPT11-90	S-1074.04MS	G32288	1/1	29-Jun-2015 12:15 PM	09-Jul-2015 2:30 PM	09-Jul-2015 2:30 PM	MS
	G32317	NA	JW-CPT11	WG	JW-CPT11-90	S-1074.04MSD	G32288	1/1	29-Jun-2015 12:15 PM	09-Jul-2015 2:59 PM	09-Jul-2015 2:59 PM	SD
	G32317	NA	LABQC	WQ	LABQC	VBLK6H	G32288	1/1	09-Jul-2015 1:56 PM	09-Jul-2015 1:56 PM	09-Jul-2015 1:56 PM	LB
	G32317	NA	LABQC	WQ	LABQC	S-1068.07	G32288	1/1	09-Jul-2015 4:31 PM	09-Jul-2015 4:31 PM	09-Jul-2015 4:31 PM	LB

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	29061501		JW-CPT11	WG	JW-CPT11-105	S-1069.06	6/29/2015 1:00:00 PM	N
	29061501		JW-CPT11	WG	JW-CPT11-130	S-1069.05	6/29/2015 1:30:00 PM	N
	29061501		JW-CPT11	WG	JW-CPT11-45	S-1069.01	6/29/2015 10:15:00 AM	N
	29061501		JW-CPT11	WG	JW-CPT11-60	S-1069.02	6/29/2015 10:50:00 AM	N
	29061501		JW-CPT11	WG	JW-CPT11-75	S-1069.03	6/29/2015 11:30:00 AM	N
	29061501		JW-CPT11	WG	JW-CPT11-90	S-1069.04	6/29/2015 12:15:00 PM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	29061501		FIELDQC	WQ	JW-RL11-0615	S-1074.07	6/29/2015 8:00:00 AM	TB
	29061501		JW-CPT11	WG	JW-CPT11-105	S-1074.06	6/29/2015 1:00:00 PM	N
	29061501		JW-CPT11	WG	JW-CPT11-130	S-1074.05	6/29/2015 1:30:00 PM	N
	29061501		JW-CPT11	WG	JW-CPT11-45	S-1074.01	6/29/2015 10:15:00 AM	N
	29061501		JW-CPT11	WG	JW-CPT11-60	S-1074.02	6/29/2015 10:50:00 AM	N
	29061501		JW-CPT11	WG	JW-CPT11-75	S-1074.03	6/29/2015 11:30:00 AM	N
	29061501		JW-CPT11	WG	JW-CPT11-90	S-1074.04	6/29/2015 12:15:00 PM	N
	29061501		JW-CPT11	WG	JW-CPT11-90	S-1074.04MS	6/29/2015 12:15:00 PM	MS
	29061501		JW-CPT11	WG	JW-CPT11-90	S-1074.04MSD	6/29/2015 12:15:00 PM	SD
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26061501		JW-CPT12	WG	JW-CPT12-105	S-1068.04	6/26/2015 12:30:00 PM	N
	26061501		JW-CPT12	WG	JW-CPT12-130	S-1068.05	6/26/2015 1:20:00 PM	N
	26061501		JW-CPT12	WG	JW-CPT12-74	S-1068.01	6/26/2015 10:45:00 AM	FD
	26061501		JW-CPT12	WG	JW-CPT12-75	S-1068.02	6/26/2015 10:00:00 AM	N
	26061501		JW-CPT12	WG	JW-CPT12-90	S-1068.03	6/26/2015 11:22:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9WW9

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26061501		FIELDQC	WQ	JW-RL10-0615	S-1068.06	6/26/2015 7:45:00 AM	TB
	26061501		JW-CPT12	WG	JW-CPT12-105	S-1068.04	6/26/2015 12:30:00 PM	N
	26061501		JW-CPT12	WG	JW-CPT12-130	S-1068.05	6/26/2015 1:20:00 PM	N
	26061501		JW-CPT12	WG	JW-CPT12-74	S-1068.01	6/26/2015 10:45:00 AM	FD
	26061501		JW-CPT12	WG	JW-CPT12-75	S-1068.02	6/26/2015 10:00:00 AM	N
	26061501		JW-CPT12	WG	JW-CPT12-90	S-1068.03	6/26/2015 11:22:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9WW9

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Field Duplicate RPD	S-1068.01 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	200	RPD	None/None	< 25	< 50	D5		RPD	
CVOL / METHOD	Blank	VBLK15 (LB)	1 / 1.00	Methylene Chloride	0.340	ug/L	U/None	< 0.1	< 0.5	B1		2	0.680
CVOL / METHOD	MS Recovery	JW-CPT11-90 (SD)	1 / 1.00	Trichloroethene (TCE)	136	Percent	J/None	70 - 130	20 - 140	M			
CVOL / METHOD	MS RPD	S-1074.04MSD (SD)	1 / 1.00	1,2-Dichloroethane	79.1	RPD	J/UJ	< 30	< 60	D2		RPD	
CVOL / METHOD	MS RPD	S-1074.04MSD (SD)	1 / 1.00	cis-1,2-Dichloroethylene	70.8	RPD	J/UJ	< 30	< 60	D2		RPD	
CVOL / METHOD	Surrogate	JW-CPT11-130 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	132	Percent	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-CPT11-90 (SD)	1 / 1.00	1,2-Dichloroethane-d4	140	Percent	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	JW-CPT11-90 (MS)	1 / 1.00	1,2-Dichloroethane-d4	150	Percent	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Trip Blank	JW-RL11-0615 (TB)	1 / 1.00	Acetone	4.40	ug/L	U/None	< 3.1	< 5	K3		2	8.80

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT12-105	N	1,4-Dioxane (p-Dioxane)	0.50	0.49 J	0.49 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT12-74	FD	1,4-Dioxane (p-Dioxane)	0.50	0.50 U	0.50 UJ	ug/L	D5
BNASIM/NONE	WG	JW-CPT12-75	N	1,4-Dioxane (p-Dioxane)	0.50	3.3	3.3 J	ug/L	D5
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WG	JW-CPT11-105	N	Toluene	0.50	0.21 J	0.21 J	ug/L	TR
CVOL/NONE	WG	JW-CPT11-130	N	Acetone	5.0	3.7 J	5.0 U	ug/L	K3
CVOL/NONE	WG	JW-CPT11-45	N	Acetone	5.0	4.7 J	5.0 U	ug/L	K3
CVOL/NONE	WG	JW-CPT11-45	N	Toluene	0.50	0.23 J	0.23 J	ug/L	TR
CVOL/NONE	WG	JW-CPT11-60	N	Acetone	5.0	3.7 J	5.0 U	ug/L	K3
CVOL/NONE	WG	JW-CPT11-90	N	Benzene	0.50	0.48 J	0.48 J	ug/L	TR
CVOL/NONE	WG	JW-CPT12-74	FD	cis-1,2-Dichloroethylene	0.50	2.0	2.0 J	ug/L	D5
CVOL/NONE	WG	JW-CPT12-74	FD	Trichloroethene (TCE)	0.50	10.0	10.0 J	ug/L	D5
CVOL/NONE	WG	JW-CPT12-75	N	cis-1,2-Dichloroethylene	0.50	3.0	3.0 J	ug/L	D5
CVOL/NONE	WG	JW-CPT12-75	N	Trichloroethene (TCE)	0.50	16.0	16.0 J	ug/L	D5
CVOL/NONE	WQ	JW-RL11-0615	TB	Acetone	5.0	4.4 J	4.4 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9WW9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT11-105	N	1,4-Dioxane (p-Dioxane)	0.50	0.67	0.67	ug/L	
BNASIM/NONE	WG	JW-CPT11-130	N	1,4-Dioxane (p-Dioxane)	0.50	0.96	0.96	ug/L	
BNASIM/NONE	WG	JW-CPT11-45	N	1,4-Dioxane (p-Dioxane)	0.50	2.4	2.4	ug/L	
BNASIM/NONE	WG	JW-CPT11-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.97	0.97	ug/L	
BNASIM/NONE	WG	JW-CPT11-75	N	1,4-Dioxane (p-Dioxane)	0.50	0.63	0.63	ug/L	
BNASIM/NONE	WG	JW-CPT11-90	N	1,4-Dioxane (p-Dioxane)	0.50	0.65	0.65	ug/L	
BNASIM/NONE	WG	JW-CPT12-105	N	1,4-Dioxane (p-Dioxane)	0.50	0.49 J	0.49 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT12-130	N	1,4-Dioxane (p-Dioxane)	0.50	0.65	0.65	ug/L	
BNASIM/NONE	WG	JW-CPT12-75	N	1,4-Dioxane (p-Dioxane)	0.50	3.3	3.3 J	ug/L	D5

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT11-105	N	Acetone	5.0	10.0	10.0	ug/L	
CVOL/NONE	WG	JW-CPT11-105	N	Toluene	0.50	0.21 J	0.21 J	ug/L	TR
CVOL/NONE	WG	JW-CPT11-45	N	Benzene	0.50	11.0	11.0	ug/L	
CVOL/NONE	WG	JW-CPT11-45	N	Toluene	0.50	0.23 J	0.23 J	ug/L	TR
CVOL/NONE	WG	JW-CPT11-45	N	cis-1,2-Dichloroethylene	0.50	5.4	5.4	ug/L	
CVOL/NONE	WG	JW-CPT11-45	N	Ethylbenzene	0.50	2.9	2.9	ug/L	
CVOL/NONE	WG	JW-CPT11-45	N	m,p-Xylene	0.50	5.0	5.0	ug/L	
CVOL/NONE	WG	JW-CPT11-45	N	o-Xylene	0.50	1.7	1.7	ug/L	
CVOL/NONE	WG	JW-CPT11-75	N	1,2-Dichloroethane	0.50	4.2	4.2	ug/L	
CVOL/NONE	WG	JW-CPT11-75	N	cis-1,2-Dichloroethylene	0.50	0.60	0.60	ug/L	
CVOL/NONE	WG	JW-CPT11-90	N	Benzene	0.50	0.48 J	0.48 J	ug/L	TR
CVOL/NONE	WG	JW-CPT11-90	N	1,2-Dichloroethane	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	JW-CPT11-90	N	cis-1,2-Dichloroethylene	0.50	0.94	0.94	ug/L	
CVOL/NONE	WG	JW-CPT12-105	N	1,2-Dichloroethane	0.50	1.9	1.9	ug/L	
CVOL/NONE	WG	JW-CPT12-74	FD	1,1-Dichloroethane	0.50	0.70	0.70	ug/L	
CVOL/NONE	WG	JW-CPT12-74	FD	cis-1,2-Dichloroethylene	0.50	2.0	2.0 J	ug/L	D5

AUTOMATED DATA REVIEW SUMMARY for Y9WW9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT12-74	FD	Trichloroethene (TCE)	0.50	10.0	10.0 J	ug/L	D5
CVOL/NONE	WG	JW-CPT12-75	N	1,1-Dichloroethane	0.50	0.96	0.96	ug/L	
CVOL/NONE	WG	JW-CPT12-75	N	cis-1,2-Dichloroethylene	0.50	3.0	3.0 J	ug/L	D5
CVOL/NONE	WG	JW-CPT12-75	N	Trichloroethene (TCE)	0.50	16.0	16.0 J	ug/L	D5
CVOL/NONE	WG	JW-CPT12-90	N	1,2-Dichloroethane	0.50	1.9	1.9	ug/L	
CVOL/NONE	WQ	JW-RL11-0615	TB	Acetone	5.0	4.4 J	4.4 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9WW9

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Facility: Jervis Webb Superfund Site
June-October 2015 CPT Groundwater Sampling

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX
Field Contractor: Gilbane Company, Walnut Creek, CA
Data Review Contractor: Gilbane

SDG: Y9WY8, Certified - 12/1/2015 by wtse
QC Level: S2BVEM (Tier 1B)
Project Manager: Don Gruber

Data Reviewer: Tom Beer
Data Reviewer Title: Project Chemist
Date of Review Report: December 07, 2015
Second Reviewer:
Completion Date of Second Reviewer:

Samples Included in SDG Y9WY8

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	14	3
CVOL/NONE	15	5

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) Y9WY8. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 29 results (2.74%) out of the 1057 results (sample and field QC samples) reported are qualified based on review and 3 results (0.28%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked the CLP lab report case narrative, the EXES data validation report, and the COC as received.

The 1,4-dioxane sample at JW-CPT15-128 was not collected due to dry conditions. Other bottle breakages during shipping still allowed for sample analysis.

Data were qualified as non-detect (U) or estimated (J) due to acetone detected in a trip blank (K3), method blank detects (B1), matrix spike interference (M, D2), continuing calibration anomalies (C11), and poor surrogate recovery (S).

~~Three results in the field duplicate JW-CPT17-92 were rejected (R) due to very poor (1%) surrogate (S) recovery.~~ **DO NOT REJECT per Tier 2 Memo (ESAT, May 2017)**

twb, 8/18/2017

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.12.07 15:12:30 -08'00'

07-Dec-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C22474	C22480	NA	FIELDQC	WQ	JW-EL04-0615	S-1298.07	C22474	1/1	27-Oct-2015 2:35 PM	31-Oct-2015 1:26 PM	04-Nov-2015 4:49 PM	EB
	C22480	NA	JW-CPT15	WG	JW-CPT15-106	S-1294.04	C22474	1/1	26-Oct-2015 1:30 PM	31-Oct-2015 1:26 PM	04-Nov-2015 3:16 PM	N
	C22480	NA	JW-CPT15	WG	JW-CPT15-107	S-1294.03	C22474	1/1	26-Oct-2015 1:35 PM	31-Oct-2015 1:26 PM	04-Nov-2015 3:04 PM	FD
	C22480	NA	JW-CPT15	WG	JW-CPT15-60	S-1294.05	C22474	1/1	26-Oct-2015 12:30 PM	31-Oct-2015 1:26 PM	04-Nov-2015 3:28 PM	N
	C22480	NA	JW-CPT15	WG	JW-CPT15-75	S-1294.02	C22474	1/1	26-Oct-2015 1:00 PM	31-Oct-2015 1:26 PM	04-Nov-2015 2:53 PM	N
	C22480	NA	JW-CPT15	WG	JW-CPT15-92	S-1298.01	C22474	1/1	27-Oct-2015 8:45 AM	31-Oct-2015 1:26 PM	04-Nov-2015 3:39 PM	N
	C22480	NA	JW-CPT16	WG	JW-CPT16-130	S-1298.06	C22474	1/1	27-Oct-2015 3:15 PM	31-Oct-2015 1:26 PM	04-Nov-2015 4:37 PM	N
	C22480	NA	JW-CPT16	WG	JW-CPT16-60	S-1298.02	C22474	1/1	27-Oct-2015 12:40 PM	31-Oct-2015 1:26 PM	04-Nov-2015 3:51 PM	N
	C22480	NA	JW-CPT16	WG	JW-CPT16-75	S-1298.03	C22474	1/1	27-Oct-2015 1:50 PM	31-Oct-2015 1:26 PM	04-Nov-2015 4:02 PM	N
	C22480	NA	JW-CPT16	WG	JW-CPT16-90	S-1298.04	C22474	1/1	27-Oct-2015 1:45 PM	31-Oct-2015 1:26 PM	04-Nov-2015 4:14 PM	N
	C22480	NA	JW-CPT17	WG	JW-CPT17-105	S-1300.05	C22474	1/1	28-Oct-2015 1:15 PM	31-Oct-2015 1:26 PM	04-Nov-2015 5:58 PM	N
	C22480	NA	JW-CPT17	WG	JW-CPT17-130	S-1300.06	C22474	1/1	28-Oct-2015 2:00 PM	31-Oct-2015 1:26 PM	04-Nov-2015 6:10 PM	N
	C22480	NA	JW-CPT17	WG	JW-CPT17-60	S-1300.01	C22474	1/1	28-Oct-2015 10:30 AM	31-Oct-2015 1:26 PM	04-Nov-2015 5:12 PM	N
	C22480	NA	JW-CPT17	WG	JW-CPT17-75	S-1300.03	C22474	1/1	28-Oct-2015 11:10 AM	31-Oct-2015 1:26 PM	04-Nov-2015 5:35 PM	N
	C22480	NA	JW-CPT17	WG	JW-CPT17-91	S-1300.04	C22474	1/1	28-Oct-2015 12:15 PM	31-Oct-2015 1:26 PM	04-Nov-2015 5:47 PM	N
	C22480	NA	JW-CPT17	WG	JW-CPT17-92	S-1300.02	C22474	1/1	28-Oct-2015 12:20 PM	31-Oct-2015 1:26 PM	04-Nov-2015 5:23 PM	FD
	C22480	NA	LABQC	WQ	LABQC	SBLK27	C22474	1/1	31-Oct-2015 1:26 PM	31-Oct-2015 1:26 PM	04-Nov-2015 11:24 AM	LB
	C22481	NA	LABQC	WQ	LABQC	SLCS27	C22474	1/1	31-Oct-2015 1:26 PM	31-Oct-2015 1:26 PM	04-Nov-2015 11:35 AM	BS
C22509	C22480	NA	JW-CPT16	WG	JW-CPT16-105	S-1298.05	C22474	1/1	27-Oct-2015 2:50 PM	31-Oct-2015 1:26 PM	05-Nov-2015 11:38 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B02713	B02716	NA	FIELDQC	WQ	JW-RL01-0615	S-1294.06	B02701	1/1	26-Oct-2015 9:30 AM	28-Oct-2015 4:43 PM	28-Oct-2015 4:43 PM	TB
	B02716	NA	JW-CPT15	WG	JW-CPT15-106	S-1294.04	B02701	1/1	26-Oct-2015 1:30 PM	28-Oct-2015 3:22 PM	28-Oct-2015 3:22 PM	N
	B02716	NA	JW-CPT15	WG	JW-CPT15-107	S-1294.03	B02701	1/1	26-Oct-2015 1:35 PM	28-Oct-2015 2:46 PM	28-Oct-2015 2:46 PM	FD
	B02716	NA	JW-CPT15	WG	JW-CPT15-128	S-1294.01	B02701	1/1	26-Oct-2015 3:00 PM	28-Oct-2015 1:33 PM	28-Oct-2015 1:33 PM	N
	B02716	NA	JW-CPT15	WG	JW-CPT15-60	S-1294.05	B02701	1/1	26-Oct-2015 12:30 PM	28-Oct-2015 4:02 PM	28-Oct-2015 4:02 PM	N
	B02716	NA	JW-CPT15	WG	JW-CPT15-75	S-1294.02	B02701	1/1	26-Oct-2015 1:00 PM	28-Oct-2015 2:13 PM	28-Oct-2015 2:13 PM	N
	B02716	NA	JW-CPT15	WG	JW-CPT15-92	S-1298.01	B02701	1/1	27-Oct-2015 8:45 AM	28-Oct-2015 6:03 PM	28-Oct-2015 6:03 PM	N
	B02716	NA	JW-CPT16	WG	JW-CPT16-105	S-1298.05	B02701	1/1	27-Oct-2015 2:50 PM	28-Oct-2015 8:31 PM	28-Oct-2015 8:31 PM	N
	B02716	NA	JW-CPT16	WG	JW-CPT16-60	S-1298.02	B02701	1/1	27-Oct-2015 12:40 PM	28-Oct-2015 6:35 PM	28-Oct-2015 6:35 PM	N
	B02716	NA	JW-CPT16	WG	JW-CPT16-75	S-1298.03	B02701	1/1	27-Oct-2015 1:50 PM	28-Oct-2015 7:11 PM	28-Oct-2015 7:11 PM	N
	B02716	NA	JW-CPT16	WG	JW-CPT16-90	S-1298.04	B02701	1/1	27-Oct-2015 1:45 PM	28-Oct-2015 7:51 PM	28-Oct-2015 7:51 PM	N
	B02716	NA	LABQC	WQ	LABQC	VBLK73	B02701	1/1	28-Oct-2015 12:53 PM	28-Oct-2015 12:53 PM	28-Oct-2015 12:53 PM	LB
B02730	B02732	NA	FIELDQC	WQ	JW-EL04-0615	S-1298.07	B02701	1/1	27-Oct-2015 2:35 PM	29-Oct-2015 1:12 PM	29-Oct-2015 1:12 PM	EB
	B02732	NA	FIELDQC	WQ	JW-RL12-0615	S-1298.08	B02701	1/1	27-Oct-2015 8:30 AM	29-Oct-2015 2:17 PM	29-Oct-2015 2:17 PM	TB
	B02732	NA	JW-CPT16	WG	JW-CPT16-130	S-1298.06	B02701	1/1	27-Oct-2015 3:15 PM	29-Oct-2015 12:43 PM	29-Oct-2015 12:43 PM	N
	B02732	NA	JW-CPT16	WG	JW-CPT16-90	S-1298.04MS	B02701	1/1	27-Oct-2015 1:45 PM	29-Oct-2015 11:35 AM	29-Oct-2015 11:35 AM	MS
	B02732	NA	JW-CPT16	WG	JW-CPT16-90	S-1298.04MSD	B02701	1/1	27-Oct-2015 1:45 PM	29-Oct-2015 12:05 PM	29-Oct-2015 12:05 PM	SD
	B02732	NA	JW-CPT17	WG	JW-CPT17-60	S-1300.01	B02701	1/1	28-Oct-2015 10:30 AM	29-Oct-2015 2:49 PM	29-Oct-2015 2:49 PM	N
	B02732	NA	JW-CPT17	WG	JW-CPT17-75	S-1300.03	B02701	1/1	28-Oct-2015 11:10 AM	29-Oct-2015 3:47 PM	29-Oct-2015 3:47 PM	N
	B02732	NA	JW-CPT17	WG	JW-CPT17-91	S-1300.04	B02701	1/1	28-Oct-2015 12:15 PM	29-Oct-2015 4:16 PM	29-Oct-2015 4:16 PM	N
	B02732	NA	JW-CPT17	WG	JW-CPT17-92	S-1300.02	B02701	1/1	28-Oct-2015 12:20 PM	29-Oct-2015 3:17 PM	29-Oct-2015 3:17 PM	FD
	B02732	NA	LABQC	WQ	LABQC	VBLK75	B02701	1/1	29-Oct-2015 11:04 AM	29-Oct-2015 11:04 AM	29-Oct-2015 11:04 AM	LB

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B02744	B02747	NA	JW-CPT17	WG	JW-CPT17-105	S-1300.05	B02701	1/1	28-Oct-2015 1:15 PM	30-Oct-2015 12:19 PM	30-Oct-2015 12:19 PM	N
	B02747	NA	JW-CPT17	WG	JW-CPT17-130	S-1300.06	B02701	1/1	28-Oct-2015 2:00 PM	30-Oct-2015 12:47 PM	30-Oct-2015 12:47 PM	N
	B02747	NA	LABQC	WQ	LABQC	VBLK77	B02701	1/1	30-Oct-2015 11:20 AM	30-Oct-2015 11:20 AM	30-Oct-2015 11:20 AM	LB
	B02747	NA	LABQC	WQ	LABQC	S-1294.07	B02701	1/1	30-Oct-2015 1:47 PM	30-Oct-2015 1:47 PM	30-Oct-2015 1:47 PM	LB

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27101501			FIELDQC	WQ	JW-EL04-0615	S-1298.07	10/27/2015 2:35:00 PM	EB
27101501			JW-CPT15	WG	JW-CPT15-92	S-1298.01	10/27/2015 8:45:00 AM	N
27101501			JW-CPT16	WG	JW-CPT16-105	S-1298.05	10/27/2015 2:50:00 PM	N
27101501			JW-CPT16	WG	JW-CPT16-130	S-1298.06	10/27/2015 3:15:00 PM	N
27101501			JW-CPT16	WG	JW-CPT16-60	S-1298.02	10/27/2015 12:40:00 PM	N
27101501			JW-CPT16	WG	JW-CPT16-75	S-1298.03	10/27/2015 1:50:00 PM	N
27101501			JW-CPT16	WG	JW-CPT16-90	S-1298.04	10/27/2015 1:45:00 PM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27101501			FIELDQC	WQ	JW-EL04-0615	S-1298.07	10/27/2015 2:35:00 PM	EB
27101501			JW-CPT15	WG	JW-CPT15-92	S-1298.01	10/27/2015 8:45:00 AM	N
27101501			JW-CPT16	WG	JW-CPT16-105	S-1298.05	10/27/2015 2:50:00 PM	N
27101501			JW-CPT16	WG	JW-CPT16-130	S-1298.06	10/27/2015 3:15:00 PM	N
27101501			JW-CPT16	WG	JW-CPT16-60	S-1298.02	10/27/2015 12:40:00 PM	N
27101501			JW-CPT16	WG	JW-CPT16-75	S-1298.03	10/27/2015 1:50:00 PM	N
27101501			JW-CPT16	WG	JW-CPT16-90	S-1298.04	10/27/2015 1:45:00 PM	N
27101501			JW-CPT16	WG	JW-CPT16-90	S-1298.04MS	10/27/2015 1:45:00 PM	MS
27101501			JW-CPT16	WG	JW-CPT16-90	S-1298.04MSD	10/27/2015 1:45:00 PM	SD
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	27101501		JW-CPT15	WG	JW-CPT15-92	S-1298.01	10/27/2015 8:45:00 AM	N
	27101501		JW-CPT16	WG	JW-CPT16-105	S-1298.05	10/27/2015 2:50:00 PM	N
	27101501		JW-CPT16	WG	JW-CPT16-130	S-1298.06	10/27/2015 3:15:00 PM	N
	27101501		JW-CPT16	WG	JW-CPT16-60	S-1298.02	10/27/2015 12:40:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	27101501		JW-CPT16	WG	JW-CPT16-75	S-1298.03	10/27/2015 1:50:00 PM	N
	27101501		JW-CPT16	WG	JW-CPT16-90	S-1298.04	10/27/2015 1:45:00 PM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	27101501		FIELDQC	WQ	JW-RL12-0615	S-1298.08	10/27/2015 8:30:00 AM	TB
	27101501		JW-CPT15	WG	JW-CPT15-92	S-1298.01	10/27/2015 8:45:00 AM	N
	27101501		JW-CPT16	WG	JW-CPT16-105	S-1298.05	10/27/2015 2:50:00 PM	N
	27101501		JW-CPT16	WG	JW-CPT16-130	S-1298.06	10/27/2015 3:15:00 PM	N
	27101501		JW-CPT16	WG	JW-CPT16-60	S-1298.02	10/27/2015 12:40:00 PM	N
	27101501		JW-CPT16	WG	JW-CPT16-75	S-1298.03	10/27/2015 1:50:00 PM	N
	27101501		JW-CPT16	WG	JW-CPT16-90	S-1298.04	10/27/2015 1:45:00 PM	N
	27101501		JW-CPT16	WG	JW-CPT16-90	S-1298.04MS	10/27/2015 1:45:00 PM	MS
	27101501		JW-CPT16	WG	JW-CPT16-90	S-1298.04MSD	10/27/2015 1:45:00 PM	SD
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26101501		JW-CPT15	WG	JW-CPT15-106	S-1294.04	10/26/2015 1:30:00 PM	N
	26101501		JW-CPT15	WG	JW-CPT15-107	S-1294.03	10/26/2015 1:35:00 PM	FD
	26101501		JW-CPT15	WG	JW-CPT15-60	S-1294.05	10/26/2015 12:30:00 PM	N
	26101501		JW-CPT15	WG	JW-CPT15-75	S-1294.02	10/26/2015 1:00:00 PM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26101501		FIELDQC	WQ	JW-RL01-0615	S-1294.06	10/26/2015 9:30:00 AM	TB
	26101501		JW-CPT15	WG	JW-CPT15-106	S-1294.04	10/26/2015 1:30:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26101501		JW-CPT15	WG	JW-CPT15-107	S-1294.03	10/26/2015 1:35:00 PM	FD
	26101501		JW-CPT15	WG	JW-CPT15-128	S-1294.01	10/26/2015 3:00:00 PM	N
	26101501		JW-CPT15	WG	JW-CPT15-60	S-1294.05	10/26/2015 12:30:00 PM	N
	26101501		JW-CPT15	WG	JW-CPT15-75	S-1294.02	10/26/2015 1:00:00 PM	N

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Field Duplicate RPD	S-1294.03 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	29.5	RPD	None/None	< 25	< 50	D5		RPD	
CVOL / METHOD	Blank	S-1294.07 (LB)	1 / 1.00	Methylene Chloride	0.150	ug/L	U/None	< 0.1	< 0.5	B1		2	0.300
CVOL / METHOD	Blank	VBLK73 (LB)	1 / 1.00	Methylene Chloride	0.780	ug/L	U/None	< 0.1	< 0.5	B1		2	1.56
CVOL / METHOD	Blank	VBLK75 (LB)	1 / 1.00	Methylene Chloride	0.280	ug/L	U/None	< 0.1	< 0.5	B1		2	0.560
CVOL / METHOD	Blank	VBLK77 (LB)	1 / 1.00	Methylene Chloride	0.230	ug/L	U/None	< 0.1	< 0.5	B1		2	0.460
CVOL / METHOD	MS Recovery	JW-CPT16-90 (MS)	1 / 1.00	1,1-Dichloroethene	56.0	Percent	J/UJ	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	JW-CPT16-90 (SD)	1 / 1.00	1,1-Dichloroethene	60.0	Percent	J/UJ	70 - 130	20 - 140	M			
CVOL / METHOD	MS RPD	S-1298.04MSD (SD)	1 / 1.00	1,2-Dichloropropane	200	RPD	J/UJ	< 30	< 60	D2		RPD	
CVOL / METHOD	Trip Blank	JW-RL01-0615 (TB)	1 / 1.00	Acetone	22.0	ug/L	U/None	< 3.1	< 5	K3	Blank is over 3X RL	2	44.0

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT15-106	N	1,4-Dioxane (p-Dioxane)	0.50	0.26 J	0.26 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT15-107	FD	1,4-Dioxane (p-Dioxane)	0.50	0.35 J	0.35 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT16-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.30 J	0.30 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT16-90	N	1,4-Dioxane (p-Dioxane)	0.50	0.39 J	0.39 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT17-91	N	1,4-Dioxane (p-Dioxane)	0.50	0.42 J	0.42 J	ug/L	TR
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WG	JW-CPT15-106	N	1,2-Dichloropropane	0.50	0.44 J	0.44 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-106	N	cis-1,2-Dichloroethylene	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-107	FD	1,2-Dichloropropane	0.50	0.36 J	0.36 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-107	FD	cis-1,2-Dichloroethylene	0.50	0.34 J	0.34 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-128	N	1,1,1-Trichloroethane	0.50	0.11 J	0.11 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-128	N	1,2,4-Trichlorobenzene	0.50	0.22 JB	0.22 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-60	N	1,1-Dichloroethane	0.50	0.45 J	0.45 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-92	N	1,2,4-Trichlorobenzene	0.50	0.32 JB	0.32 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-92	N	1,2-Dichlorobenzene	0.50	0.21 JB	0.21 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-92	N	1,2-Dichloropropane	0.50	0.27 J	0.27 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-92	N	1,4-Dichlorobenzene	0.50	0.22 JB	0.22 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-92	N	Acetone	5.1	5.1	5.1 U	ug/L	K3
CVOL/NONE	WG	JW-CPT15-92	N	Methylene Chloride	0.79	0.79 B	0.79 U	ug/L	B1
CVOL/NONE	WG	JW-CPT15-92	N	Trichloroethene (TCE)	0.50	0.24 J	0.24 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-105	N	1,2-Dichloroethane	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-130	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT16-130	N	1,2-Dichloroethane	0.50	0.40 J	0.40 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-130	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	D2
CVOL/NONE	WG	JW-CPT16-130	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT16-60	N	1,1-Dichloroethene	0.50	0.22 J	0.22 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-60	N	Methylene Chloride	0.81	0.81 B	0.81 U	ug/L	B1

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT16-75	N	Methylene Chloride	0.83	0.83 B	0.83 U	ug/L	B1
CVOL/NONE	WG	JW-CPT16-75	N	trans-1,2-Dichloroethene	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-90	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	M
CVOL/NONE	WG	JW-CPT16-90	N	1,2-Dichloropropane	0.50	0.23 J	0.23 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-90	N	Trichloroethene (TCE)	0.50	0.21 J	0.21 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-105	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT17-105	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT17-105	N	cis-1,2-Dichloroethylene	0.50	0.34 J	0.34 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-105	N	Trichloroethene (TCE)	0.50	0.33 J	0.33 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-130	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT17-130	N	1,2-Dichloroethane	0.50	0.22 J	0.22 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-130	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT17-130	N	Trichloroethene (TCE)	0.50	0.35 J	0.35 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-60	N	1,1-Dichloroethene	0.50	1.4	1.4 J	ug/L	C11
CVOL/NONE	WG	JW-CPT17-60	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	D2
CVOL/NONE	WG	JW-CPT17-60	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT17-75	N	1,1-Dichloroethane	0.50	0.46 J	0.46 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-75	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT17-75	N	1,2-Dichloropropane	0.50	0.49 J	0.49 J	ug/L	D2/TR
CVOL/NONE	WG	JW-CPT17-75	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT17-91	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT17-91	N	1,2-Dichloropropane	0.50	0.38 J	0.38 J	ug/L	D2/TR
CVOL/NONE	WG	JW-CPT17-91	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT17-91	N	Cyclohexane	0.50	0.31 J	0.31 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-92	FD	1,1,2-Trichloroethane	0.50	0.50 U	0.50 R	ug/L	~~S~~
CVOL/NONE	WG	JW-CPT17-92	FD	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT17-92	FD	1,2-Dichloropropane	0.50	0.37 J	0.37 J	ug/L	D2/TR

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT17-92	FD	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT17-92	FD	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 ~~R~~	ug/L	~~S~~
CVOL/NONE	WG	JW-CPT17-92	FD	Cyclohexane	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-92	FD	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 ~~R~~	ug/L	~~S~~
CVOL/NONE	WQ	JW-EL04-0615	EB	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	D2
CVOL/NONE	WQ	JW-RL12-0615	TB	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	D2

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT15-106	N	1,4-Dioxane (p-Dioxane)	0.50	0.26 J	0.26 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT15-107	FD	1,4-Dioxane (p-Dioxane)	0.50	0.35 J	0.35 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT15-60	N	1,4-Dioxane (p-Dioxane)	0.50	5.8	5.8	ug/L	
BNASIM/NONE	WG	JW-CPT15-75	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.6	ug/L	
BNASIM/NONE	WG	JW-CPT15-92	N	1,4-Dioxane (p-Dioxane)	0.50	0.56	0.56	ug/L	
BNASIM/NONE	WG	JW-CPT16-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.30 J	0.30 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT16-75	N	1,4-Dioxane (p-Dioxane)	0.50	0.55	0.55	ug/L	
BNASIM/NONE	WG	JW-CPT16-90	N	1,4-Dioxane (p-Dioxane)	0.50	0.39 J	0.39 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT17-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.80	0.80	ug/L	
BNASIM/NONE	WG	JW-CPT17-75	N	1,4-Dioxane (p-Dioxane)	0.50	1.2	1.2	ug/L	
BNASIM/NONE	WG	JW-CPT17-91	N	1,4-Dioxane (p-Dioxane)	0.50	0.42 J	0.42 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT17-92	FD	1,4-Dioxane (p-Dioxane)	0.50	0.54	0.54	ug/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT15-106	N	1,2-Dichloroethane	0.50	7.4	7.4	ug/L	
CVOL/NONE	WG	JW-CPT15-106	N	cis-1,2-Dichloroethylene	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-106	N	1,2-Dichloropropane	0.50	0.44 J	0.44 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-107	FD	1,2-Dichloroethane	0.50	7.5	7.5	ug/L	
CVOL/NONE	WG	JW-CPT15-107	FD	cis-1,2-Dichloroethylene	0.50	0.34 J	0.34 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-107	FD	1,2-Dichloropropane	0.50	0.36 J	0.36 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-128	N	1,1,1-Trichloroethane	0.50	0.11 J	0.11 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-128	N	1,2,4-Trichlorobenzene	0.50	0.22 JB	0.22 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-60	N	1,1-Dichloroethane	0.50	0.45 J	0.45 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-60	N	1,1-Dichloroethene	0.50	0.73	0.73	ug/L	
CVOL/NONE	WG	JW-CPT15-60	N	cis-1,2-Dichloroethylene	0.50	4.5	4.5	ug/L	
CVOL/NONE	WG	JW-CPT15-60	N	trans-1,2-Dichloroethene	0.50	1.9	1.9	ug/L	
CVOL/NONE	WG	JW-CPT15-60	N	Trichloroethene (TCE)	0.50	9.1	9.1	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT15-75	N	1,2-Dichloroethane	0.50	0.77	0.77	ug/L	
CVOL/NONE	WG	JW-CPT15-75	N	1,1-Dichloroethene	0.50	0.82	0.82	ug/L	
CVOL/NONE	WG	JW-CPT15-75	N	cis-1,2-Dichloroethylene	0.50	20.0	20.0	ug/L	
CVOL/NONE	WG	JW-CPT15-75	N	trans-1,2-Dichloroethene	0.50	5.3	5.3	ug/L	
CVOL/NONE	WG	JW-CPT15-75	N	Trichloroethene (TCE)	0.50	9.9	9.9	ug/L	
CVOL/NONE	WG	JW-CPT15-92	N	1,2-Dichloroethane	0.50	10.0	10.0	ug/L	
CVOL/NONE	WG	JW-CPT15-92	N	1,2-Dichlorobenzene	0.50	0.21 JB	0.21 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-92	N	1,4-Dichlorobenzene	0.50	0.22 JB	0.22 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-92	N	cis-1,2-Dichloroethylene	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	JW-CPT15-92	N	1,2-Dichloropropane	0.50	0.27 J	0.27 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-92	N	1,2,4-Trichlorobenzene	0.50	0.32 JB	0.32 J	ug/L	TR
CVOL/NONE	WG	JW-CPT15-92	N	Trichloroethene (TCE)	0.50	0.24 J	0.24 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-105	N	1,2-Dichloroethane	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-130	N	1,2-Dichloroethane	0.50	0.40 J	0.40 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-60	N	1,2-Dichloroethane	0.50	0.76	0.76	ug/L	
CVOL/NONE	WG	JW-CPT16-60	N	1,1-Dichloroethene	0.50	0.22 J	0.22 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-60	N	cis-1,2-Dichloroethylene	0.50	3.1	3.1	ug/L	
CVOL/NONE	WG	JW-CPT16-60	N	trans-1,2-Dichloroethene	0.50	0.55	0.55	ug/L	
CVOL/NONE	WG	JW-CPT16-60	N	Trichloroethene (TCE)	0.50	1.9	1.9	ug/L	
CVOL/NONE	WG	JW-CPT16-75	N	1,2-Dichloroethane	0.50	1.1	1.1	ug/L	
CVOL/NONE	WG	JW-CPT16-75	N	cis-1,2-Dichloroethylene	0.50	2.3	2.3	ug/L	
CVOL/NONE	WG	JW-CPT16-75	N	trans-1,2-Dichloroethene	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-75	N	Trichloroethene (TCE)	0.50	1.4	1.4	ug/L	
CVOL/NONE	WG	JW-CPT16-90	N	1,2-Dichloroethane	0.50	5.3	5.3	ug/L	
CVOL/NONE	WG	JW-CPT16-90	N	1,2-Dichloropropane	0.50	0.23 J	0.23 J	ug/L	TR
CVOL/NONE	WG	JW-CPT16-90	N	Trichloroethene (TCE)	0.50	0.21 J	0.21 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-105	N	Benzene	0.50	0.93	0.93	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT17-105	N	1,2-Dichloroethane	0.50	4.2	4.2	ug/L	
CVOL/NONE	WG	JW-CPT17-105	N	cis-1,2-Dichloroethylene	0.50	0.34 J	0.34 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-105	N	1,2-Dichloropropane	0.50	0.53	0.53	ug/L	
CVOL/NONE	WG	JW-CPT17-105	N	Trichloroethene (TCE)	0.50	0.33 J	0.33 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-130	N	1,2-Dichloroethane	0.50	0.22 J	0.22 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-130	N	Trichloroethene (TCE)	0.50	0.35 J	0.35 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-60	N	Cyclohexane	0.50	0.65	0.65	ug/L	
CVOL/NONE	WG	JW-CPT17-60	N	1,1-Dichloroethane	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	JW-CPT17-60	N	1,2-Dichloroethane	0.50	1.3	1.3	ug/L	
CVOL/NONE	WG	JW-CPT17-60	N	1,1-Dichloroethene	0.50	1.4	1.4 J	ug/L	C11
CVOL/NONE	WG	JW-CPT17-60	N	cis-1,2-Dichloroethylene	0.50	7.7	7.7	ug/L	
CVOL/NONE	WG	JW-CPT17-60	N	trans-1,2-Dichloroethene	0.50	0.79	0.79	ug/L	
CVOL/NONE	WG	JW-CPT17-60	N	Trichloroethene (TCE)	0.50	13.0	13.0	ug/L	
CVOL/NONE	WG	JW-CPT17-75	N	1,1-Dichloroethane	0.50	0.46 J	0.46 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-75	N	1,2-Dichloroethane	0.50	2.2	2.2	ug/L	
CVOL/NONE	WG	JW-CPT17-75	N	cis-1,2-Dichloroethylene	0.50	0.75	0.75	ug/L	
CVOL/NONE	WG	JW-CPT17-75	N	1,2-Dichloropropane	0.50	0.49 J	0.49 J	ug/L	D2/TR
CVOL/NONE	WG	JW-CPT17-91	N	Cyclohexane	0.50	0.31 J	0.31 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-91	N	1,2-Dichloroethane	0.50	12.0	12.0	ug/L	
CVOL/NONE	WG	JW-CPT17-91	N	cis-1,2-Dichloroethylene	0.50	2.1	2.1	ug/L	
CVOL/NONE	WG	JW-CPT17-91	N	1,2-Dichloropropane	0.50	0.38 J	0.38 J	ug/L	D2/TR
CVOL/NONE	WG	JW-CPT17-91	N	Trichloroethene (TCE)	0.50	0.60	0.60	ug/L	
CVOL/NONE	WG	JW-CPT17-92	FD	Cyclohexane	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	JW-CPT17-92	FD	1,2-Dichloroethane	0.50	12.0	12.0	ug/L	
CVOL/NONE	WG	JW-CPT17-92	FD	cis-1,2-Dichloroethylene	0.50	2.3	2.3	ug/L	
CVOL/NONE	WG	JW-CPT17-92	FD	1,2-Dichloropropane	0.50	0.37 J	0.37 J	ug/L	D2/TR
CVOL/NONE	WG	JW-CPT17-92	FD	Trichloroethene (TCE)	0.50	0.71	0.71	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	JW-RL01-0615	TB	Acetone	5.0	22.0	22.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
~~CVOL/NONE~~	~~WG~~	~~JW-CPT17-92~~	~~FD~~	~~cis-1,3-Dichloropropene~~	~~0.50~~	~~0.50 U~~	~~R~~	~~ug/L~~	~~S~~
~~CVOL/NONE~~	~~WG~~	~~JW-CPT17-92~~	~~FD~~	~~trans-1,3-Dichloropropene~~	~~0.50~~	~~0.50 U~~	~~R~~	~~ug/L~~	~~S~~
~~CVOL/NONE~~	~~WG~~	~~JW-CPT17-92~~	~~FD~~	~~1,1,2-Trichloroethane~~	~~0.50~~	~~0.50 U~~	~~R~~	~~ug/L~~	~~S~~

Revised 8/18/2017

AUTOMATED DATA REVIEW SUMMARY for Y9WY8

AUTOMATED DATA REVIEW SUMMARY for Y9X31

Facility: Jervis Webb Superfund Site
June-October 2015 CPT Groundwater Sampling

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: Gilbane

SDG: Y9X31, Certified - 12/2/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: December 07, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9X31

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	4	2
CVOL/NONE	4	4

AUTOMATED DATA REVIEW SUMMARY for Y9X31

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) Y9X31. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9X31

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 14 results (3.32%) out of the 422 results (sample and field QC samples) reported are qualified based on review and 3 results (0.71%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked the CLP lab report case narrative, the EXES data validation report, and the COC as received by the lab.

No sample receipt anomalies were noted. Some bottle breakages during shipping were noted but still allowed for sample analysis.

Data qualifiers were added and data were estimated (J, UJ) due to continuing calibration anomalies (C11), and poor surrogate recovery (S).

~~Three results in sample JW-CPT18-90 were rejected (R) due to very poor (2%) surrogate (S) recovery.~~ **DO NOT REJECT per Tier 2 Memo (ESAT, May 2017)**

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.12.07 15:23:35 -08'00'

07-Dec-2015

twb, 8/18/2017

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9X31

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C22474	C22482	NA	LABQC	WQ	LABQC	SLCS30	C22474	1/1	02-Nov-2015 1:55 PM	02-Nov-2015 1:55 PM	04-Nov-2015 11:47 AM	BS
	C22483	NA	FIELDQC	WQ	JW-EL05-0615	S-1303.06	C22474	1/1	29-Oct-2015 11:00 AM	02-Nov-2015 1:55 PM	04-Nov-2015 6:21 PM	EB
	C22483	NA	JW-CPT18	WG	JW-CPT18-130	S-1303.05	C22474	1/1	29-Oct-2015 1:30 PM	02-Nov-2015 1:55 PM	04-Nov-2015 2:29 PM	N
	C22483	NA	JW-CPT18	WG	JW-CPT18-60	S-1303.01	C22474	1/1	29-Oct-2015 10:15 AM	02-Nov-2015 1:55 PM	04-Nov-2015 1:43 PM	N
	C22483	NA	JW-CPT18	WG	JW-CPT18-75	S-1303.02	C22474	1/1	29-Oct-2015 11:15 AM	02-Nov-2015 1:55 PM	04-Nov-2015 1:55 PM	N
	C22483	NA	JW-CPT18	WG	JW-CPT18-90	S-1303.03	C22474	1/1	29-Oct-2015 12:45 PM	02-Nov-2015 1:55 PM	04-Nov-2015 2:06 PM	N
	C22483	NA	JW-CPT18	WG	JW-CPT18-91	S-1303.04	C22474	1/1	29-Oct-2015 12:50 PM	02-Nov-2015 1:55 PM	04-Nov-2015 2:18 PM	FD
	C22483	NA	LABQC	WQ	LABQC	SBLK30	C22474	1/1	02-Nov-2015 1:55 PM	02-Nov-2015 1:55 PM	04-Nov-2015 11:58 AM	LB

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G34134	G34140	NA	FIELDQC	WQ	JW-EL05-0615	S-1303.06	G34139	1/1	29-Oct-2015 11:00 AM	04-Nov-2015 5:41 PM	04-Nov-2015 5:41 PM	EB
	G34140	NA	FIELDQC	WQ	JW-RL13-0615	S-1301.01	G34139	1/1	28-Oct-2015 8:05 AM	04-Nov-2015 4:44 PM	04-Nov-2015 4:44 PM	TB
	G34140	NA	FIELDQC	WQ	JW-RL14-0615	S-1303.07	G34139	1/1	29-Oct-2015 8:15 AM	04-Nov-2015 6:09 PM	04-Nov-2015 6:09 PM	TB
	G34140	NA	JW-CPT18	WG	JW-CPT18-130	S-1303.05	G34139	1/1	29-Oct-2015 1:30 PM	04-Nov-2015 5:13 PM	04-Nov-2015 5:13 PM	N
	G34140	NA	JW-CPT18	WG	JW-CPT18-60	S-1303.01	G34139	1/1	29-Oct-2015 10:15 AM	04-Nov-2015 3:15 PM	04-Nov-2015 3:15 PM	N
	G34140	NA	JW-CPT18	WG	JW-CPT18-75	S-1303.02	G34139	1/1	29-Oct-2015 11:15 AM	04-Nov-2015 4:11 PM	04-Nov-2015 4:11 PM	N
	G34140	NA	JW-CPT18	WG	JW-CPT18-90	S-1303.03	G34139	1/1	29-Oct-2015 12:45 PM	04-Nov-2015 3:44 PM	04-Nov-2015 3:44 PM	N
	G34140	NA	JW-CPT18	WG	JW-CPT18-91	S-1303.04	G34139	1/1	29-Oct-2015 12:50 PM	04-Nov-2015 6:38 PM	04-Nov-2015 6:38 PM	FD
	G34140	NA	LABQC	WQ	LABQC	VBLKJD	G34139	1/1	04-Nov-2015 1:28 PM	04-Nov-2015 1:28 PM	04-Nov-2015 1:28 PM	LB
	G34140	NA	LABQC	WQ	LABQC	S-1301.02	G34139	1/1	04-Nov-2015 7:06 PM	04-Nov-2015 7:06 PM	04-Nov-2015 7:06 PM	LB

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
29101501			FIELDQC	WQ	JW-EL05-0615	S-1303.06	10/29/2015 11:00:00 AM	EB
29101501			JW-CPT18	WG	JW-CPT18-130	S-1303.05	10/29/2015 1:30:00 PM	N
29101501			JW-CPT18	WG	JW-CPT18-60	S-1303.01	10/29/2015 10:15:00 AM	N
29101501			JW-CPT18	WG	JW-CPT18-75	S-1303.02	10/29/2015 11:15:00 AM	N
29101501			JW-CPT18	WG	JW-CPT18-90	S-1303.03	10/29/2015 12:45:00 PM	N
29101501			JW-CPT18	WG	JW-CPT18-91	S-1303.04	10/29/2015 12:50:00 PM	FD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
29101501			FIELDQC	WQ	JW-EL05-0615	S-1303.06	10/29/2015 11:00:00 AM	EB
29101501			JW-CPT18	WG	JW-CPT18-130	S-1303.05	10/29/2015 1:30:00 PM	N
29101501			JW-CPT18	WG	JW-CPT18-60	S-1303.01	10/29/2015 10:15:00 AM	N
29101501			JW-CPT18	WG	JW-CPT18-75	S-1303.02	10/29/2015 11:15:00 AM	N
29101501			JW-CPT18	WG	JW-CPT18-90	S-1303.03	10/29/2015 12:45:00 PM	N
29101501			JW-CPT18	WG	JW-CPT18-91	S-1303.04	10/29/2015 12:50:00 PM	FD

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	29101501		JW-CPT18	WG	JW-CPT18-130	S-1303.05	10/29/2015 1:30:00 PM	N
	29101501		JW-CPT18	WG	JW-CPT18-60	S-1303.01	10/29/2015 10:15:00 AM	N
	29101501		JW-CPT18	WG	JW-CPT18-75	S-1303.02	10/29/2015 11:15:00 AM	N
	29101501		JW-CPT18	WG	JW-CPT18-90	S-1303.03	10/29/2015 12:45:00 PM	N
	29101501		JW-CPT18	WG	JW-CPT18-91	S-1303.04	10/29/2015 12:50:00 PM	FD

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	29101501		FIELDQC	WQ	JW-RL14-0615	S-1303.07	10/29/2015 8:15:00 AM	TB
	29101501		JW-CPT18	WG	JW-CPT18-130	S-1303.05	10/29/2015 1:30:00 PM	N
	29101501		JW-CPT18	WG	JW-CPT18-60	S-1303.01	10/29/2015 10:15:00 AM	N
	29101501		JW-CPT18	WG	JW-CPT18-75	S-1303.02	10/29/2015 11:15:00 AM	N
	29101501		JW-CPT18	WG	JW-CPT18-90	S-1303.03	10/29/2015 12:45:00 PM	N
	29101501		JW-CPT18	WG	JW-CPT18-91	S-1303.04	10/29/2015 12:50:00 PM	FD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	28101501		FIELDQC	WQ	JW-RL13-0615	S-1301.01	10/28/2015 8:05:00 AM	TB

AUTOMATED DATA REVIEW SUMMARY for Y9X31

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Field Duplicate RPD	S-1303.04 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	65.5	RPD	None/None	< 25	< 50	D5		RPD	
CVOL / METHOD	Blank	S-1301.02 (LB)	1 / 1.00	Methylene Chloride	0.330	ug/L	U/None	< 0.1	< 0.5	B1		2	0.660
CVOL / METHOD	Blank	VBLKJD (LB)	1 / 1.00	Methylene Chloride	0.190	ug/L	U/None	< 0.1	< 0.5	B1		2	0.380
CVOL / METHOD	Field Duplicate RPD	S-1303.04 (N)	1 / 1.00	1,2-Dichloropropane	200	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	Field Duplicate RPD	S-1303.04 (N)	1 / 1.00	Trichloroethene (TCE)	200	RPD	J/None	< 50	< 100	D5		RPD	

AUTOMATED DATA REVIEW SUMMARY for Y9X31

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT18-91	FD	1,4-Dioxane (p-Dioxane)	0.50	0.37 J	0.37 J	ug/L	TR
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WG	JW-CPT18-130	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT18-60	N	1,1-Dichloroethene	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	JW-CPT18-60	N	1,2-Dichloroethane	0.50	0.40 J	0.40 J	ug/L	TR
CVOL/NONE	WG	JW-CPT18-60	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT18-75	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT18-90	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 ~~R~~	ug/L	~~S~~
CVOL/NONE	WG	JW-CPT18-90	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	S
CVOL/NONE	WG	JW-CPT18-90	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	S
CVOL/NONE	WG	JW-CPT18-90	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	S
CVOL/NONE	WG	JW-CPT18-90	N	1,2-Dichloropropane	0.50	0.22 J	0.22 J	ug/L	TR
CVOL/NONE	WG	JW-CPT18-90	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	S
CVOL/NONE	WG	JW-CPT18-90	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	S
CVOL/NONE	WG	JW-CPT18-90	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT18-90	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	S
CVOL/NONE	WG	JW-CPT18-90	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 ~~R~~	ug/L	~~S~~
CVOL/NONE	WG	JW-CPT18-90	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 ~~R~~	ug/L	~~S~~
CVOL/NONE	WG	JW-CPT18-91	FD	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	C11
CVOL/NONE	WG	JW-CPT18-91	FD	Trichloroethene (TCE)	0.50	0.26 J	0.26 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT18-60	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.6	ug/L	
BNASIM/NONE	WG	JW-CPT18-75	N	1,4-Dioxane (p-Dioxane)	0.50	0.57	0.57	ug/L	
BNASIM/NONE	WG	JW-CPT18-90	N	1,4-Dioxane (p-Dioxane)	0.50	0.73	0.73	ug/L	
BNASIM/NONE	WG	JW-CPT18-91	FD	1,4-Dioxane (p-Dioxane)	0.50	0.37 J	0.37 J	ug/L	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT18-130	N	1,2-Dichloroethane	0.50	1.6	1.6	ug/L	
CVOL/NONE	WG	JW-CPT18-60	N	1,1-Dichloroethane	0.50	1.0	1.0	ug/L	
CVOL/NONE	WG	JW-CPT18-60	N	1,2-Dichloroethane	0.50	0.40 J	0.40 J	ug/L	TR
CVOL/NONE	WG	JW-CPT18-60	N	1,1-Dichloroethene	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	JW-CPT18-60	N	cis-1,2-Dichloroethylene	0.50	0.53	0.53	ug/L	
CVOL/NONE	WG	JW-CPT18-75	N	1,2-Dichloroethane	0.50	15.0	15.0	ug/L	
CVOL/NONE	WG	JW-CPT18-75	N	cis-1,2-Dichloroethylene	0.50	1.0	1.0	ug/L	
CVOL/NONE	WG	JW-CPT18-90	N	1,2-Dichloroethane	0.50	16.0	16.0	ug/L	
CVOL/NONE	WG	JW-CPT18-90	N	cis-1,2-Dichloroethylene	0.50	1.0	1.0	ug/L	
CVOL/NONE	WG	JW-CPT18-90	N	1,2-Dichloropropane	0.50	0.22 J	0.22 J	ug/L	TR
CVOL/NONE	WG	JW-CPT18-91	FD	1,2-Dichloroethane	0.50	18.0	18.0	ug/L	
CVOL/NONE	WG	JW-CPT18-91	FD	cis-1,2-Dichloroethylene	0.50	1.1	1.1	ug/L	
CVOL/NONE	WG	JW-CPT18-91	FD	Trichloroethene (TCE)	0.50	0.26 J	0.26 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9X31

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
~~CVOL/NONE~~	~~WG~~	~~JW-CPT18-90~~	~~N~~	~~cis-1,3-Dichloropropene~~	~~0.50~~	~~0.50 U~~	~~R~~	~~ug/L~~	~~S~~
~~CVOL/NONE~~	~~WG~~	~~JW-CPT18-90~~	~~N~~	~~trans-1,3-Dichloropropene~~	~~0.50~~	~~0.50 U~~	~~R~~	~~ug/L~~	~~S~~
~~CVOL/NONE~~	~~WG~~	~~JW-CPT18-90~~	~~N~~	~~1,1,2-Trichloroethane~~	~~0.50~~	~~0.50 U~~	~~R~~	~~ug/L~~	~~S~~

Revised 8/18/2017

AUTOMATED DATA REVIEW SUMMARY for Y9X31

Facility:	Jervis-Webb Superfund Site
Event:	May 2017 New Wells Sampling
Guidance Document:	Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015
Contract Laboratory:	Shealy Labs, Inc., Cayce, SC
Field Contractor:	Gilbane Company, Walnut Creek, CA
Data Review Contractor:	Gilbane Federal
SDG:	YABF4, Certified - 6/13/2017 by wtse
QC Level:	S2BVEM
Project Manager:	Don Gruber
Data Reviewer:	Thomas Beer
Data Reviewer Title:	Project Chemist
Date of Review Report:	July 14, 2017
Second Reviewer:	
Completion Date of Second Reviewer:	

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	16	2
CVOL/NONE	15	4

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by Shealy Labs, Inc., Cayce, SC and were reported under sample delivery group (SDG) YABF4. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate
- Lab Replicate RPD
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 34 results (3.38%) out of the 1006 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked COCs as received, the Shealy CLP lab report, and the EXES data validation report.

Analytical Method	Comment
BNASIM	No additional comments; see Checklist for detail.
CVOL	Based on ESAT/ICF Tier 3 Validation Report for SDG YABH1, all DBCP results in YABF4 had RLs raised to 1 ug/L due to poor ICAL area counts at 0.5 ug/L, for professional judgment (X).

J. Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2017.07.21 15:31:36 -07'00'

July 14, 2017

Reviewed by Thomas Beer, Project Chemist

Qualified Results

Test Method: BNASIM	Extraction Method: SW3520C		Leach Method: NONE		Matrix: WG			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-04-0517	N	1,4-Dioxane (p-Dioxane)	1.9	21.0 D	21.0 J	+	ug/L	S
JWMW-05-0517	N	1,4-Dioxane (p-Dioxane)	1.9	14.0 D	14.0 J	+	ug/L	S
JWMW-06C-0517	N	1,4-Dioxane (p-Dioxane)	0.38	0.34 J	0.34 J	-	ug/L	S/TR
JWMW-07B-0517	N	1,4-Dioxane (p-Dioxane)	0.38	0.37 J	0.37 J		ug/L	TR
JWMW-08A-0517	N	1,4-Dioxane (p-Dioxane)	0.39	0.34 J	0.34 J		ug/L	TR
JWMW-08C-0517	N	1,4-Dioxane (p-Dioxane)	0.38	0.37 J	0.37 J	-	ug/L	S/TR
JWMW-09B-0517	N	1,4-Dioxane (p-Dioxane)	0.38	0.19 J	0.19 J		ug/L	TR
JWMW-09C-0517	N	1,4-Dioxane (p-Dioxane)	0.38	0.52	0.52 J	-	ug/L	S
JWMW-10-0517	N	1,4-Dioxane (p-Dioxane)	0.38	0.13 J	0.13 J		ug/L	TR

Test Method: CVOL	Extraction Method: SW5030C		Leach Method: NONE		Matrix: WQ			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-EL01-0517	EB	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JW-RL01-0517	TB	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JW-RL02-0517	TB	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X

Test Method: CVOL	Extraction Method: SW5030C		Leach Method: NONE		Matrix: WG			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-02-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-02-0517	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-02-0517	N	Acetone	5.0	9.0	9.0 J		ug/L	C11
JWMW-02-0517	N	Chloromethane	0.50	0.18 J	0.18 J		ug/L	TR
JWMW-04-0517	N	1,2-Dibromo-3-chloropropane	10.0	10.0 U	10.0 U		ug/L	X
JWMW-05-0517	N	1,1-Dichloroethane	10.0	8.0 J D	8.0 J		ug/L	TR
JWMW-05-0517	N	1,2-Dibromo-3-chloropropane	10.0	10.0 U	10.0 U		ug/L	X
JWMW-06A-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-06A-0517	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-06A-0517	N	Acetone	5.0	6.5	6.5 J		ug/L	C11
JWMW-06A-0517	N	Chloromethane	0.50	0.17 J	0.17 J		ug/L	TR
JWMW-06A-0517	N	Vinyl Chloride	0.50	0.37 J	0.37 J		ug/L	TR
JWMW-06B-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-06B-0517	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-06B-0517	N	Acetone	5.0	6.4	6.4 J		ug/L	C11
JWMW-06B-0517	N	Chloromethane	0.50	0.18 J	0.18 J		ug/L	TR

Qualified Results

Test Method: CVOL	Extraction Method: SW5030C		Leach Method: NONE		Matrix: WG		
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result Bias	Units	Reason
JWMW-06B-0517	N	Vinyl Chloride	0.50	0.34 J	0.34 J	ug/L	TR
JWMW-07A-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U	ug/L	X
JWMW-07A-0517	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	C11
JWMW-07A-0517	N	Acetone	5.0	5.0 U	5.0 UJ	ug/L	C11
JWMW-07A-0517	N	Carbon Disulfide	0.50	0.17 J	0.17 J	ug/L	TR
JWMW-07B-0517	N	1,1-Dichloroethene	0.50	0.23 J	0.23 J	ug/L	TR
JWMW-07B-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U	ug/L	X
JWMW-07B-0517	N	Acetone	5.0	4.7 J	4.7 J	ug/L	TR
JWMW-07B-0517	N	cis-1,2-Dichloroethylene	0.50	0.25 J	0.25 J	ug/L	TR
JWMW-07B-0517	N	Vinyl Chloride	0.50	0.16 J	0.16 J	ug/L	TR
JWMW-07C-0517	N	1,1-Dichloroethane	0.50	0.12 J	0.12 J	ug/L	TR
JWMW-07C-0517	N	1,1-Dichloroethene	0.50	0.20 J	0.20 J	ug/L	TR
JWMW-07C-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U	ug/L	X
JWMW-07C-0517	N	Chlorobenzene	0.50	0.22 J	0.22 J	ug/L	TR
JWMW-07C-0517	N	Trichloroethene (TCE)	0.50	0.27 J	0.27 J	ug/L	TR
JWMW-08A-0517	N	1,1-Dichloroethane	0.50	0.12 J	0.12 J	ug/L	TR
JWMW-08A-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U	ug/L	X
JWMW-08A-0517	N	Acetone	5.0	3.4 J	3.4 J	ug/L	TR
JWMW-08B-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U	ug/L	X
JWMW-08B-0517	N	Acetone	5.0	3.8 J	3.8 J	ug/L	TR
JWMW-08B-0517	N	Carbon Disulfide	0.50	0.33 J	0.33 J	ug/L	TR
JWMW-08C-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U	ug/L	X
JWMW-08C-0517	N	1,2-Dichloropropane	0.50	0.27 J	0.27 J	ug/L	TR
JWMW-08C-0517	N	Benzene	0.50	0.31 J	0.31 J	ug/L	TR
JWMW-08C-0517	N	Carbon Disulfide	0.50	0.44 J	0.44 J	ug/L	TR
JWMW-08C-0517	N	Trichloroethene (TCE)	0.50	0.34 J	0.34 J	ug/L	TR
JWMW-09A-0517	N	1,1-Dichloroethane	25.0	16.0 J D	16.0 J	ug/L	TR
JWMW-09A-0517	N	1,2-Dibromo-3-chloropropane	25.0	25.0 U	25.0 U	ug/L	X
JWMW-09B-0517	N	1,1-Dichloroethane	0.50	0.32 J	0.32 J	ug/L	TR
JWMW-09B-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U	ug/L	X
JWMW-09B-0517	N	Vinyl Chloride	0.50	0.26 J	0.26 J	ug/L	TR
JWMW-09C-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U	ug/L	X
JWMW-09C-0517	N	1,2-Dichloropropane	0.50	0.18 J	0.18 J	ug/L	TR
JWMW-09C-0517	N	Chlorobenzene	0.50	0.25 J	0.25 J	ug/L	TR
JWMW-09C-0517	N	Cyclohexane	0.50	0.36 J	0.36 J	ug/L	TR
JWMW-09C-0517	N	Trichloroethene (TCE)	0.50	0.37 J	0.37 J	ug/L	TR
JWMW-09C-0517	N	Vinyl Chloride	0.50	0.15 J	0.15 J	ug/L	TR

Qualified Results

Test Method: CVOL	Extraction Method: SW5030C		Leach Method: NONE		Matrix: WG			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-10-0517	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-10-0517	N	cis-1,2-Dichloroethylene	0.50	0.29 J	0.29 J		ug/L	TR
JWMW-98B-0517	FD	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-98B-0517	FD	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-98B-0517	FD	Acetone	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-98B-0517	FD	Carbon Disulfide	0.50	0.27 J	0.27 J		ug/L	TR

Reason Code Definitions

Code	Definition
B1	The analyte was found in an associated method blank.
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
D5	Field duplicate precision
H2	Prep Hold Time
S	Surrogate recovery out of criteria (upper or lower limit)
TR	Trace Level Detect
X	Raised reporting limit

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for YABF4
Jervis-Webb Superfund Site
Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Batch Report

Test Method: BNASIM Analysis Batch: \\Organics

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	SQ41361-001	\\Organics	1/1	5/5/2017 18:44	5/5/2017 18:44	5/17/2017 17:29	\\Organics/	LB
LABQC	WQ	LABQC	SQ41361-002	\\Organics	1/1	5/5/2017 18:44	5/5/2017 18:44	5/17/2017 17:49	\\Organics/	BS
FIELDQC	WQ	JW-EL01-0517	SE02018-002	\\Organics	1/1	5/1/2017 13:45	5/5/2017 18:44	5/17/2017 18:09	\\Organics/	EB
JWMW-09A	WG	JWMW-09A-0517	SE02018-003	\\Organics	1/1	5/1/2017 09:01	5/5/2017 18:44	5/17/2017 18:29	\\Organics/	N
JWMW-09B	WG	JWMW-09B-0517	SE02018-004	\\Organics	1/1	5/1/2017 10:05	5/5/2017 18:44	5/17/2017 18:49	\\Organics/	N
JWMW-09C	WG	JWMW-09C-0517	SE02018-005	\\Organics	1/1	5/1/2017 11:08	5/5/2017 18:44	5/17/2017 19:09	\\Organics/	N
JWMW-10	WG	JWMW-10-0517	SE02018-006	\\Organics	1/1	5/1/2017 12:09	5/5/2017 18:44	5/17/2017 19:29	\\Organics/	N
JWMW-04	WG	JWMW-04-0517	SE02018-007	\\Organics	1/1	5/1/2017 13:35	5/5/2017 18:44	5/17/2017 19:49	\\Organics/	LR
JWMW-05	WG	JWMW-05-0517	SE02018-008	\\Organics	1/1	5/1/2017 14:20	5/5/2017 18:44	5/17/2017 20:09	\\Organics/	LR
JWMW-02	WG	JWMW-02-0517	SE02018-010	\\Organics	1/1	5/2/2017 13:37	5/5/2017 18:44	5/17/2017 20:29	\\Organics/	N
JWMW-08B	WG	JWMW-98B-0517	SE02018-012	\\Organics	1/1	5/2/2017 11:16	5/5/2017 18:44	5/17/2017 20:49	\\Organics/	FD
JWMW-08A	WG	JWMW-08A-0517	SE02018-013	\\Organics	1/1	5/2/2017 12:08	5/5/2017 18:44	5/17/2017 21:09	\\Organics/	N
JWMW-08B	WG	JWMW-08B-0517	SE02018-014	\\Organics	1/1	5/2/2017 11:11	5/5/2017 18:44	5/17/2017 21:49	\\Organics/	N
JWMW-08C	WG	JWMW-08C-0517	SE02018-015	\\Organics	1/1	5/2/2017 10:17	5/5/2017 18:44	5/17/2017 22:09	\\Organics/	N
JWMW-06A	WG	JWMW-06A-0517	SE02018-016	\\Organics	1/1	5/3/2017 13:38	5/5/2017 18:44	5/17/2017 22:29	\\Organics/	N
JWMW-06B	WG	JWMW-06B-0517	SE02018-017	\\Organics	1/1	5/3/2017 12:55	5/5/2017 18:44	5/17/2017 22:49	\\Organics/	N
JWMW-06C	WG	JWMW-06C-0517	SE02018-018	\\Organics	1/1	5/3/2017 12:36	5/5/2017 18:44	5/17/2017 23:09	\\Organics/	N
JWMW-07A	WG	JWMW-07A-0517	SE02018-019	\\Organics	1/1	5/3/2017 11:32	5/5/2017 18:44	5/17/2017 23:29	\\Organics/	N
JWMW-07B	WG	JWMW-07B-0517	SE02018-020	\\Organics	1/1	5/3/2017 10:50	5/5/2017 18:44	5/17/2017 23:49	\\Organics/	N
JWMW-07C	WG	JWMW-07C-0517	SE02018-021	\\Organics	1/1	5/3/2017 10:07	5/5/2017 18:44	5/18/2017 00:08	\\Organics/	N
JWMW-02	WG	JWMW-02-0517	SE02018-010	\\Organics	1/2	5/2/2017 13:37	5/5/2017 18:44	5/18/2017 12:49	\\Organics/	LR
JWMW-02	WG	JWMW-02-0517	SE02018-010	\\Organics	1/2	5/2/2017 13:37	5/5/2017 18:44	5/18/2017 12:49	\\Organics/	N
JWMW-09A	WG	JWMW-09A-0517	SE02018-003	\\Organics	1/5	5/1/2017 09:01	5/5/2017 18:44	5/18/2017 13:30	\\Organics/	LR
JWMW-09A	WG	JWMW-09A-0517	SE02018-003	\\Organics	1/5	5/1/2017 09:01	5/5/2017 18:44	5/18/2017 13:30	\\Organics/	N
JWMW-04	WG	JWMW-04-0517	SE02018-007	\\Organics	1/5	5/1/2017 13:35	5/5/2017 18:44	5/18/2017 13:50	\\Organics/	N
JWMW-05	WG	JWMW-05-0517	SE02018-008	\\Organics	1/5	5/1/2017 14:20	5/5/2017 18:44	5/18/2017 14:10	\\Organics/	N

Batch Report

Test Method: BNASIM Analysis Batch: \\Organics

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
JWMW-07A	WG	JWMW-07A-0517	SE02018-019	\\Organics	1/5	5/3/2017 11:32	5/5/2017 18:44	5/18/2017 14:30	\\Organics/	LR
JWMW-07A	WG	JWMW-07A-0517	SE02018-019	\\Organics	1/5	5/3/2017 11:32	5/5/2017 18:44	5/18/2017 14:30	\\Organics/	N
LABQC	WQ	LABQC	SQ42405-001	\\Organics	1/1	5/18/2017 17:14	5/18/2017 17:14	5/22/2017 13:57	\\Organics/	LB
LABQC	WQ	LABQC	SQ42405-002	\\Organics	1/1	5/18/2017 17:14	5/18/2017 17:14	5/22/2017 14:17	\\Organics/	BS
JWMW-08C	WG	JWMW-08C-0517	SE02018-015	\\Organics	1/1	5/2/2017 10:17	5/18/2017 17:14	5/22/2017 14:37	\\Organics/	LR
JWMW-06C	WG	JWMW-06C-0517	SE02018-018	\\Organics	1/1	5/3/2017 12:36	5/18/2017 17:14	5/22/2017 14:58	\\Organics/	LR

Test Method: CVOL Analysis Batch: \\Organics

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	SQ41257-001	\\Organics	1/1	5/4/2017 14:32	5/4/2017 14:32	5/4/2017 14:32	\\Organics/	LB
FIELDQC	WQ	JW-RL01-0517	SE02018-001	\\Organics	1/1	5/1/2017 07:30	5/4/2017 16:53	5/4/2017 16:53	\\Organics/	TB
FIELDQC	WQ	JW-EL01-0517	SE02018-002	\\Organics	1/1	5/1/2017 13:45	5/4/2017 17:19	5/4/2017 17:19	\\Organics/	EB
JWMW-10	WG	JWMW-10-0517	SE02018-006	\\Organics	1/1	5/1/2017 12:09	5/4/2017 17:44	5/4/2017 17:44	\\Organics/	N
JWMW-09A	WG	JWMW-09A-0517	SE02018-003	\\Organics	1/500	5/1/2017 09:01	5/4/2017 18:10	5/4/2017 18:10	\\Organics/	LR
JWMW-09A	WG	JWMW-09A-0517	SE02018-003	\\Organics	1/500	5/1/2017 09:01	5/4/2017 18:10	5/4/2017 18:10	\\Organics/	N
JWMW-09A	WG	JWMW-09A-0517	SE02018-003	\\Organics	1/50	5/1/2017 09:01	5/4/2017 18:36	5/4/2017 18:36	\\Organics/	N
JWMW-04	WG	JWMW-04-0517	SE02018-007	\\Organics	1/200	5/1/2017 13:35	5/4/2017 19:27	5/4/2017 19:27	\\Organics/	LR
JWMW-04	WG	JWMW-04-0517	SE02018-007	\\Organics	1/200	5/1/2017 13:35	5/4/2017 19:27	5/4/2017 19:27	\\Organics/	N
JWMW-04	WG	JWMW-04-0517	SE02018-007	\\Organics	1/20	5/1/2017 13:35	5/4/2017 19:53	5/4/2017 19:53	\\Organics/	N
JWMW-05	WG	JWMW-05-0517	SE02018-008	\\Organics	1/200	5/1/2017 14:20	5/4/2017 20:44	5/4/2017 20:44	\\Organics/	LR
JWMW-05	WG	JWMW-05-0517	SE02018-008	\\Organics	1/200	5/1/2017 14:20	5/4/2017 20:44	5/4/2017 20:44	\\Organics/	N
JWMW-05	WG	JWMW-05-0517	SE02018-008	\\Organics	1/20	5/1/2017 14:20	5/4/2017 21:10	5/4/2017 21:10	\\Organics/	N
LABQC	WQ	LABQC	SQ41338-001	\\Organics	1/1	5/5/2017 07:57	5/5/2017 07:57	5/5/2017 07:57	\\Organics/	LB
JWMW-09B	WG	JWMW-09B-0517	SE02018-004	\\Organics	1/1	5/1/2017 10:05	5/5/2017 10:32	5/5/2017 10:32	\\Organics/	N

Batch Report

Test Method: CVOL Analysis Batch: \\Organics

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
JWMW-09C	WG	JWMW-09C-0517	SE02018-005	\\Organics	1/1	5/1/2017 11:08	5/5/2017 10:58	5/5/2017 10:58	\\Organics/	N
FIELDQC	WQ	JW-RL02-0517	SE02018-011	\\Organics	1/1	5/2/2017 09:00	5/5/2017 11:24	5/5/2017 11:24	\\Organics/	TB
JWMW-08B	WG	JWMW-08B-0517	SE02018-014	\\Organics	1/1	5/2/2017 11:11	5/5/2017 13:37	5/5/2017 13:37	\\Organics/	N
JWMW-08C	WG	JWMW-08C-0517	SE02018-015	\\Organics	1/1	5/2/2017 10:17	5/5/2017 14:03	5/5/2017 14:03	\\Organics/	N
JWMW-08A	WG	JWMW-08A-0517	SE02018-013	\\Organics	1/5	5/2/2017 12:08	5/5/2017 17:51	5/5/2017 17:51	\\Organics/	LR
JWMW-08A	WG	JWMW-08A-0517	SE02018-013	\\Organics	1/5	5/2/2017 12:08	5/5/2017 17:51	5/5/2017 17:51	\\Organics/	N
LABQC	WQ	LABQC	SQ41367-001	\\Organics	1/1	5/5/2017 18:59	5/5/2017 18:59	5/5/2017 18:59	\\Organics/	LB
JWMW-06A	WG	JWMW-06A-0517	SE02018-016	\\Organics	1/1	5/3/2017 13:38	5/5/2017 22:14	5/5/2017 22:14	\\Organics/	N
JWMW-06B	WG	JWMW-06B-0517	SE02018-017	\\Organics	1/1	5/3/2017 12:55	5/5/2017 22:40	5/5/2017 22:40	\\Organics/	N
JWMW-07A	WG	JWMW-07A-0517	SE02018-019	\\Organics	1/1	5/3/2017 11:32	5/5/2017 23:05	5/5/2017 23:05	\\Organics/	N
JWMW-07B	WG	JWMW-07B-0517	SE02018-020	\\Organics	1/1	5/3/2017 10:50	5/5/2017 23:57	5/5/2017 23:57	\\Organics/	N
JWMW-07C	WG	JWMW-07C-0517	SE02018-021	\\Organics	1/1	5/3/2017 10:07	5/6/2017 00:22	5/6/2017 00:22	\\Organics/	N
JWMW-08A	WG	JWMW-08A-0517	SE02018-013	\\Organics	1/1	5/2/2017 12:08	5/6/2017 03:48	5/6/2017 03:48	\\Organics/	N
LABQC	WQ	LABQC	SQ41444-001	\\Organics	1/1	5/8/2017 10:32	5/8/2017 10:32	5/8/2017 10:32	\\Organics/	LB
JWMW-02	WG	JWMW-02-0517	SE02018-010	\\Organics	1/1	5/2/2017 13:37	5/8/2017 18:47	5/8/2017 18:47	\\Organics/	N
JWMW-08B	WG	JWMW-98B-0517	SE02018-012	\\Organics	1/1	5/2/2017 11:16	5/8/2017 19:13	5/8/2017 19:13	\\Organics/	FD
LABQC	WQ	LABQC	SQ41551-001	\\Organics	1/1	5/9/2017 10:20	5/9/2017 10:20	5/9/2017 10:20	\\Organics/	LB
JWMW-06A	WG	JWMW-06A-0517	SE02018-016	\\Organics	1/1	5/3/2017 13:38	5/9/2017 11:31	5/9/2017 11:31	\\Organics/	LR
JWMW-06A	WG	JWMW-06A-0517	SE02018-016	\\Organics	1/1	5/3/2017 13:38	5/9/2017 11:31	5/9/2017 11:31	\\Organics/	N
JWMW-06B	WG	JWMW-06B-0517	SE02018-017	\\Organics	1/1	5/3/2017 12:55	5/9/2017 11:57	5/9/2017 11:57	\\Organics/	LR
JWMW-06B	WG	JWMW-06B-0517	SE02018-017	\\Organics	1/1	5/3/2017 12:55	5/9/2017 11:57	5/9/2017 11:57	\\Organics/	N
JWMW-07A	WG	JWMW-07A-0517	SE02018-019	\\Organics	1/20	5/3/2017 11:32	5/9/2017 12:22	5/9/2017 12:22	\\Organics/	LR
JWMW-07A	WG	JWMW-07A-0517	SE02018-019	\\Organics	1/20	5/3/2017 11:32	5/9/2017 12:22	5/9/2017 12:22	\\Organics/	N
LABQC	WQ	LABQC	SQ41687-001	\\Organics	1/1	5/10/2017 15:55	5/10/2017 15:55	5/10/2017 15:55	\\Organics/	LB
JWMW-02	WG	JWMW-02-0517	SE02018-010	\\Organics	1/20	5/2/2017 13:37	5/10/2017 16:59	5/10/2017 16:59	\\Organics/	LR
JWMW-02	WG	JWMW-02-0517	SE02018-010	\\Organics	1/20	5/2/2017 13:37	5/10/2017 16:59	5/10/2017 16:59	\\Organics/	N
LABQC	WQ	LABQC	SQ41848-001	\\Organics	1/1	5/11/2017 20:12	5/11/2017 20:12	5/11/2017 20:12	\\Organics/	LB

Batch Report

Test Method: CVOL Analysis Batch: \\Organics

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	SE02018-009	\\Organics	1/1	5/11/2017 20:52	5/11/2017 20:52	5/11/2017 20:52	\\Organics/	LB

Field Batch Report

Test Method: BNASIM Extraction Method: SW3520C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
01051701			FIELDQC	WQ	JW-EL01-0517	SE02018-002	5/1/2017 13:45	EB
01051701			JWMW-04	WG	JWMW-04-0517	SE02018-007	5/1/2017 13:35	LR
01051701			JWMW-04	WG	JWMW-04-0517	SE02018-007	5/1/2017 13:35	N
01051701			JWMW-05	WG	JWMW-05-0517	SE02018-008	5/1/2017 14:20	LR
01051701			JWMW-05	WG	JWMW-05-0517	SE02018-008	5/1/2017 14:20	N
01051701			JWMW-09A	WG	JWMW-09A-0517	SE02018-003	5/1/2017 09:01	LR
01051701			JWMW-09A	WG	JWMW-09A-0517	SE02018-003	5/1/2017 09:01	N
01051701			JWMW-09B	WG	JWMW-09B-0517	SE02018-004	5/1/2017 10:05	N
01051701			JWMW-09C	WG	JWMW-09C-0517	SE02018-005	5/1/2017 11:08	N
01051701			JWMW-10	WG	JWMW-10-0517	SE02018-006	5/1/2017 12:09	N

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
01051701			FIELDQC	WQ	JW-EL01-0517	SE02018-002	5/1/2017 13:45	EB
01051701			JWMW-04	WG	JWMW-04-0517	SE02018-007	5/1/2017 13:35	LR
01051701			JWMW-04	WG	JWMW-04-0517	SE02018-007	5/1/2017 13:35	N
01051701			JWMW-05	WG	JWMW-05-0517	SE02018-008	5/1/2017 14:20	LR
01051701			JWMW-05	WG	JWMW-05-0517	SE02018-008	5/1/2017 14:20	N
01051701			JWMW-09A	WG	JWMW-09A-0517	SE02018-003	5/1/2017 09:01	LR
01051701			JWMW-09A	WG	JWMW-09A-0517	SE02018-003	5/1/2017 09:01	N
01051701			JWMW-09B	WG	JWMW-09B-0517	SE02018-004	5/1/2017 10:05	N
01051701			JWMW-09C	WG	JWMW-09C-0517	SE02018-005	5/1/2017 11:08	N
01051701			JWMW-10	WG	JWMW-10-0517	SE02018-006	5/1/2017 12:09	N

Field Batch Report

Test Method: BNASIM Extraction Method: SW3520C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
	02051701		JWMW-02	WG	JWMW-02-0517	SE02018-010	5/2/2017 13:37	LR
	02051701		JWMW-02	WG	JWMW-02-0517	SE02018-010	5/2/2017 13:37	N
	02051701		JWMW-08A	WG	JWMW-08A-0517	SE02018-013	5/2/2017 12:08	N
	02051701		JWMW-08B	WG	JWMW-08B-0517	SE02018-014	5/2/2017 11:11	N
	02051701		JWMW-08B	WG	JWMW-98B-0517	SE02018-012	5/2/2017 11:16	FD
	02051701		JWMW-08C	WG	JWMW-08C-0517	SE02018-015	5/2/2017 10:17	LR
	02051701		JWMW-08C	WG	JWMW-08C-0517	SE02018-015	5/2/2017 10:17	N

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
	02051701		FIELDQC	WQ	JW-RL02-0517	SE02018-011	5/2/2017 09:00	TB
	02051701		JWMW-02	WG	JWMW-02-0517	SE02018-010	5/2/2017 13:37	LR
	02051701		JWMW-02	WG	JWMW-02-0517	SE02018-010	5/2/2017 13:37	N
	02051701		JWMW-08A	WG	JWMW-08A-0517	SE02018-013	5/2/2017 12:08	LR
	02051701		JWMW-08A	WG	JWMW-08A-0517	SE02018-013	5/2/2017 12:08	N
	02051701		JWMW-08B	WG	JWMW-08B-0517	SE02018-014	5/2/2017 11:11	N
	02051701		JWMW-08B	WG	JWMW-98B-0517	SE02018-012	5/2/2017 11:16	FD
	02051701		JWMW-08C	WG	JWMW-08C-0517	SE02018-015	5/2/2017 10:17	N

Test Method: BNASIM Extraction Method: SW3520C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
	01051701		JWMW-04	WG	JWMW-04-0517	SE02018-007	5/1/2017 13:35	LR
	01051701		JWMW-04	WG	JWMW-04-0517	SE02018-007	5/1/2017 13:35	N
	01051701		JWMW-05	WG	JWMW-05-0517	SE02018-008	5/1/2017 14:20	LR

Field Batch Report

Test Method: BNASIM Extraction Method: SW3520C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
	01051701		JWMW-05	WG	JWMW-05-0517	SE02018-008	5/1/2017 14:20	N
	01051701		JWMW-09A	WG	JWMW-09A-0517	SE02018-003	5/1/2017 09:01	LR
	01051701		JWMW-09A	WG	JWMW-09A-0517	SE02018-003	5/1/2017 09:01	N
	01051701		JWMW-09B	WG	JWMW-09B-0517	SE02018-004	5/1/2017 10:05	N
	01051701		JWMW-09C	WG	JWMW-09C-0517	SE02018-005	5/1/2017 11:08	N
	01051701		JWMW-10	WG	JWMW-10-0517	SE02018-006	5/1/2017 12:09	N

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
	01051701		FIELDQC	WQ	JW-RL01-0517	SE02018-001	5/1/2017 07:30	TB
	01051701		JWMW-04	WG	JWMW-04-0517	SE02018-007	5/1/2017 13:35	LR
	01051701		JWMW-04	WG	JWMW-04-0517	SE02018-007	5/1/2017 13:35	N
	01051701		JWMW-05	WG	JWMW-05-0517	SE02018-008	5/1/2017 14:20	LR
	01051701		JWMW-05	WG	JWMW-05-0517	SE02018-008	5/1/2017 14:20	N
	01051701		JWMW-09A	WG	JWMW-09A-0517	SE02018-003	5/1/2017 09:01	LR
	01051701		JWMW-09A	WG	JWMW-09A-0517	SE02018-003	5/1/2017 09:01	N
	01051701		JWMW-09B	WG	JWMW-09B-0517	SE02018-004	5/1/2017 10:05	N
	01051701		JWMW-09C	WG	JWMW-09C-0517	SE02018-005	5/1/2017 11:08	N
	01051701		JWMW-10	WG	JWMW-10-0517	SE02018-006	5/1/2017 12:09	N

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: BNASIM Extraction Method: SW3520C Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Prep Hold Time	JWMW-06C-0517 (N) / SE02018-018	1 / 1.00	All in Run	15.19 (days)	J/UJ	< 14	< 28	H2	Prep Exceeds UWL		
Prep Hold Time	JWMW-08C-0517 (N) / SE02018-015	1 / 1.00	All in Run	16.29 (days)	J/UJ	< 14	< 28	H2	Prep Exceeds UWL		
Surrogate	JWMW-04-0517 (N) / SE02018-007	1 / 1.00	1,4-Dioxane-d8	700.0 (percent)	J/None	40 - 150	10 - 160	S			
Surrogate	JWMW-04-0517 (N) / SE02018-007	1 / 5.00	1,4-Dioxane-d8	700.0 (percent)	J/None	40 - 150	10 - 160	S	Diluted Out	2.00	
Surrogate	JWMW-05-0517 (N) / SE02018-008	1 / 5.00	1,4-Dioxane-d8	1050 (percent)	J/None	40 - 150	10 - 160	S	Diluted Out	2.00	
Surrogate	JWMW-05-0517 (N) / SE02018-008	1 / 1.00	1,4-Dioxane-d8	1150 (percent)	J/None	40 - 150	10 - 160	S			
Surrogate	JWMW-06C-0517 (N) / SE02018-018	1 / 1.00	1,4-Dioxane-d8	27.00 (percent)	J/UJ	40 - 150	10 - 160	S			
Surrogate	JWMW-06C-0517 (N) / SE02018-018	1 / 1.00	1,4-Dioxane-d8	36.00 (percent)	J/UJ	40 - 150	10 - 160	S			
Surrogate	JWMW-08C-0517 (N) / SE02018-015	1 / 1.00	1,4-Dioxane-d8	30.00 (percent)	J/UJ	40 - 150	10 - 160	S			
Surrogate	JWMW-08C-0517 (N) / SE02018-015	1 / 1.00	1,4-Dioxane-d8	38.00 (percent)	J/UJ	40 - 150	10 - 160	S			
Surrogate	JWMW-09C-0517 (N) / SE02018-005	1 / 1.00	1,4-Dioxane-d8	39.50 (percent)	J/UJ	40 - 150	10 - 160	S			

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Blank	SQ41257-001 (LB) / SQ41257-001	1 / 1.00	1,2,3-Trichlorobenzene	0.1600 (ug/l)	*U/None	< 0.094	< 0.5	B1		1	0.160
Blank	SQ41338-001 (LB) / SQ41338-001	1 / 1.00	1,2,3-Trichlorobenzene	0.1800 (ug/l)	*U/None	< 0.094	< 0.5	B1		1	0.180

QC Outlier Report

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Blank	SQ41367-001 (LB) / SQ41367-001	1 / 1.00	1,2,3-Trichlorobenzene	0.3100 (ug/l)	*U/None	< 0.094	< 0.5	B1		1	0.310
Blank	SQ41444-001 (LB) / SQ41444-001	1 / 1.00	1,2,3-Trichlorobenzene	0.3300 (ug/l)	*U/None	< 0.094	< 0.5	B1		1	0.330
Field Duplicate	SE02018-012 (N) / SE02018-012	1 / 1.00	Acetone	200.0 (rpd)	J/None	< 50	< 100	D5			

Rule is the multiplier used when blank contamination occurs to determine action level.

Qualified Results

Test Method: BNASIM Extraction Method: SW3520C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-04-0517	SE02018-007	WG	N	1,4-Dioxane (p-Dioxane)	1.9	21.0 D	21.0 J	+	ug/L	S
JWMW-05-0517	SE02018-008	WG	N	1,4-Dioxane (p-Dioxane)	1.9	14.0 D	14.0 J	+	ug/L	S
JWMW-06C-0517	SE02018-018	WG	N	1,4-Dioxane (p-Dioxane)	0.38	0.34 J	0.34 J	-	ug/L	S/TR
JWMW-07B-0517	SE02018-020	WG	N	1,4-Dioxane (p-Dioxane)	0.38	0.37 J	0.37 J		ug/L	TR
JWMW-08A-0517	SE02018-013	WG	N	1,4-Dioxane (p-Dioxane)	0.39	0.34 J	0.34 J		ug/L	TR
JWMW-08C-0517	SE02018-015	WG	N	1,4-Dioxane (p-Dioxane)	0.38	0.37 J	0.37 J	-	ug/L	S/TR
JWMW-09B-0517	SE02018-004	WG	N	1,4-Dioxane (p-Dioxane)	0.38	0.19 J	0.19 J		ug/L	TR
JWMW-09C-0517	SE02018-005	WG	N	1,4-Dioxane (p-Dioxane)	0.38	0.52	0.52 J	-	ug/L	S
JWMW-10-0517	SE02018-006	WG	N	1,4-Dioxane (p-Dioxane)	0.38	0.13 J	0.13 J		ug/L	TR

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JW-EL01-0517	SE02018-002	WQ	EB	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-02-0517	SE02018-010	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-02-0517	SE02018-010	WG	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-02-0517	SE02018-010	WG	N	Acetone	5.0	9.0	9.0 J		ug/L	C11
JWMW-02-0517	SE02018-010	WG	N	Chloromethane	0.50	0.18 J	0.18 J		ug/L	TR
JWMW-04-0517	SE02018-007	WG	N	1,2-Dibromo-3-chloropropane	10.0	10.0 U	10.0 U		ug/L	X
JWMW-05-0517	SE02018-008	WG	N	1,1-Dichloroethane	10.0	8.0 J D	8.0 J		ug/L	TR
JWMW-05-0517	SE02018-008	WG	N	1,2-Dibromo-3-chloropropane	10.0	10.0 U	10.0 U		ug/L	X
JWMW-06A-0517	SE02018-016	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-06A-0517	SE02018-016	WG	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-06A-0517	SE02018-016	WG	N	Acetone	5.0	6.5	6.5 J		ug/L	C11
JWMW-06A-0517	SE02018-016	WG	N	Chloromethane	0.50	0.17 J	0.17 J		ug/L	TR
JWMW-06A-0517	SE02018-016	WG	N	Vinyl Chloride	0.50	0.37 J	0.37 J		ug/L	TR
JWMW-06B-0517	SE02018-017	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X

Qualified Results

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-06B-0517	SE02018-017	WG	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-06B-0517	SE02018-017	WG	N	Acetone	5.0	6.4	6.4 J		ug/L	C11
JWMW-06B-0517	SE02018-017	WG	N	Chloromethane	0.50	0.18 J	0.18 J		ug/L	TR
JWMW-06B-0517	SE02018-017	WG	N	Vinyl Chloride	0.50	0.34 J	0.34 J		ug/L	TR
JWMW-07A-0517	SE02018-019	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-07A-0517	SE02018-019	WG	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-07A-0517	SE02018-019	WG	N	Acetone	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-07A-0517	SE02018-019	WG	N	Carbon Disulfide	0.50	0.17 J	0.17 J		ug/L	TR
JWMW-07B-0517	SE02018-020	WG	N	1,1-Dichloroethene	0.50	0.23 J	0.23 J		ug/L	TR
JWMW-07B-0517	SE02018-020	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-07B-0517	SE02018-020	WG	N	Acetone	5.0	4.7 J	4.7 J		ug/L	TR
JWMW-07B-0517	SE02018-020	WG	N	cis-1,2-Dichloroethylene	0.50	0.25 J	0.25 J		ug/L	TR
JWMW-07B-0517	SE02018-020	WG	N	Vinyl Chloride	0.50	0.16 J	0.16 J		ug/L	TR
JWMW-07C-0517	SE02018-021	WG	N	1,1-Dichloroethane	0.50	0.12 J	0.12 J		ug/L	TR
JWMW-07C-0517	SE02018-021	WG	N	1,1-Dichloroethene	0.50	0.20 J	0.20 J		ug/L	TR
JWMW-07C-0517	SE02018-021	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-07C-0517	SE02018-021	WG	N	Chlorobenzene	0.50	0.22 J	0.22 J		ug/L	TR
JWMW-07C-0517	SE02018-021	WG	N	Trichloroethene (TCE)	0.50	0.27 J	0.27 J		ug/L	TR
JWMW-08A-0517	SE02018-013	WG	N	1,1-Dichloroethane	0.50	0.12 J	0.12 J		ug/L	TR
JWMW-08A-0517	SE02018-013	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-08A-0517	SE02018-013	WG	N	Acetone	5.0	3.4 J	3.4 J		ug/L	TR
JWMW-08B-0517	SE02018-014	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-08B-0517	SE02018-014	WG	N	Acetone	5.0	3.8 J	3.8 J		ug/L	TR
JWMW-08B-0517	SE02018-014	WG	N	Carbon Disulfide	0.50	0.33 J	0.33 J		ug/L	TR
JWMW-08C-0517	SE02018-015	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-08C-0517	SE02018-015	WG	N	1,2-Dichloropropane	0.50	0.27 J	0.27 J		ug/L	TR
JWMW-08C-0517	SE02018-015	WG	N	Benzene	0.50	0.31 J	0.31 J		ug/L	TR

Qualified Results

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
JWMW-08C-0517	SE02018-015	WG	N	Carbon Disulfide	0.50	0.44 J	0.44 J		ug/L	TR
JWMW-08C-0517	SE02018-015	WG	N	Trichloroethene (TCE)	0.50	0.34 J	0.34 J		ug/L	TR
JWMW-09A-0517	SE02018-003	WG	N	1,1-Dichloroethane	25.0	16.0 J D	16.0 J		ug/L	TR
JWMW-09A-0517	SE02018-003	WG	N	1,2-Dibromo-3-chloropropane	25.0	25.0 U	25.0 U		ug/L	X
JWMW-09B-0517	SE02018-004	WG	N	1,1-Dichloroethane	0.50	0.32 J	0.32 J		ug/L	TR
JWMW-09B-0517	SE02018-004	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-09B-0517	SE02018-004	WG	N	Vinyl Chloride	0.50	0.26 J	0.26 J		ug/L	TR
JWMW-09C-0517	SE02018-005	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-09C-0517	SE02018-005	WG	N	1,2-Dichloropropane	0.50	0.18 J	0.18 J		ug/L	TR
JWMW-09C-0517	SE02018-005	WG	N	Chlorobenzene	0.50	0.25 J	0.25 J		ug/L	TR
JWMW-09C-0517	SE02018-005	WG	N	Cyclohexane	0.50	0.36 J	0.36 J		ug/L	TR
JWMW-09C-0517	SE02018-005	WG	N	Trichloroethene (TCE)	0.50	0.37 J	0.37 J		ug/L	TR
JWMW-09C-0517	SE02018-005	WG	N	Vinyl Chloride	0.50	0.15 J	0.15 J		ug/L	TR
JWMW-10-0517	SE02018-006	WG	N	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-10-0517	SE02018-006	WG	N	cis-1,2-Dichloroethylene	0.50	0.29 J	0.29 J		ug/L	TR
JWMW-98B-0517	SE02018-012	WG	FD	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JWMW-98B-0517	SE02018-012	WG	FD	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-98B-0517	SE02018-012	WG	FD	Acetone	5.0	5.0 U	5.0 UJ		ug/L	C11
JWMW-98B-0517	SE02018-012	WG	FD	Carbon Disulfide	0.50	0.27 J	0.27 J		ug/L	TR
JW-RL01-0517	SE02018-001	WQ	TB	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X
JW-RL02-0517	SE02018-011	WQ	TB	1,2-Dibromo-3-chloropropane	1.0	1.0 U	1.0 U		ug/L	X

Detected Results

Test Method: BNASIM Extraction Method: SW3520C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-02-0517	SE02018-010	WG	N	2	1,4-Dioxane (p-Dioxane)	0.77	8.2 D	8.2	ug/L	
JWMW-04-0517	SE02018-007	WG	N	5	1,4-Dioxane (p-Dioxane)	1.9	21.0 D	21.0 J	ug/L	S
JWMW-05-0517	SE02018-008	WG	N	5	1,4-Dioxane (p-Dioxane)	1.9	14.0 D	14.0 J	ug/L	S
JWMW-06A-0517	SE02018-016	WG	N	1	1,4-Dioxane (p-Dioxane)	0.38	5.7	5.7	ug/L	
JWMW-06B-0517	SE02018-017	WG	N	1	1,4-Dioxane (p-Dioxane)	0.39	1.4	1.4	ug/L	
JWMW-06C-0517	SE02018-018	WG	N	1	1,4-Dioxane (p-Dioxane)	0.38	0.34 J	0.34 J	ug/L	S/TR
JWMW-07A-0517	SE02018-019	WG	N	5	1,4-Dioxane (p-Dioxane)	1.9	15.0 D	15.0	ug/L	
JWMW-07B-0517	SE02018-020	WG	N	1	1,4-Dioxane (p-Dioxane)	0.38	0.37 J	0.37 J	ug/L	TR
JWMW-07C-0517	SE02018-021	WG	N	1	1,4-Dioxane (p-Dioxane)	0.38	0.59	0.59	ug/L	
JWMW-08A-0517	SE02018-013	WG	N	1	1,4-Dioxane (p-Dioxane)	0.39	0.34 J	0.34 J	ug/L	TR
JWMW-08B-0517	SE02018-014	WG	N	1	1,4-Dioxane (p-Dioxane)	0.38	0.43	0.43	ug/L	
JWMW-08C-0517	SE02018-015	WG	N	1	1,4-Dioxane (p-Dioxane)	0.38	0.37 J	0.37 J	ug/L	S/TR
JWMW-09A-0517	SE02018-003	WG	N	5	1,4-Dioxane (p-Dioxane)	1.9	27.0 D	27.0	ug/L	
JWMW-09B-0517	SE02018-004	WG	N	1	1,4-Dioxane (p-Dioxane)	0.38	0.19 J	0.19 J	ug/L	TR
JWMW-09C-0517	SE02018-005	WG	N	1	1,4-Dioxane (p-Dioxane)	0.38	0.52	0.52 J	ug/L	S
JWMW-10-0517	SE02018-006	WG	N	1	1,4-Dioxane (p-Dioxane)	0.38	0.13 J	0.13 J	ug/L	TR
JWMW-98B-0517	SE02018-012	WG	FD	1	1,4-Dioxane (p-Dioxane)	0.38	0.40	0.40	ug/L	

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-02-0517	SE02018-010	WG	N	1	1,1-Dichloroethane	0.50	5.0	5.0	ug/L	
JWMW-02-0517	SE02018-010	WG	N	1	1,1-Dichloroethene	0.50	18.0	18.0	ug/L	
JWMW-02-0517	SE02018-010	WG	N	1	1,2-Dichloroethane	0.50	2.3	2.3	ug/L	
JWMW-02-0517	SE02018-010	WG	N	1	Acetone	5.0	9.0	9.0 J	ug/L	C11
JWMW-02-0517	SE02018-010	WG	N	1	Benzene	0.50	0.58	0.58	ug/L	

Detected Results

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-02-0517	SE02018-010	WG	N	1	Chloromethane	0.50	0.18 J	0.18 J	ug/L	TR
JWMW-02-0517	SE02018-010	WG	N	20	cis-1,2-Dichloroethylene	10.0	32.0 D	32.0	ug/L	
JWMW-02-0517	SE02018-010	WG	N	1	Tetrachloroethene (PCE)	0.50	0.61	0.61	ug/L	
JWMW-02-0517	SE02018-010	WG	N	1	trans-1,2-Dichloroethene	0.50	2.7	2.7	ug/L	
JWMW-02-0517	SE02018-010	WG	N	20	Trichloroethene (TCE)	10.0	110 D	110	ug/L	
JWMW-02-0517	SE02018-010	WG	N	1	Vinyl Chloride	0.50	1.1	1.1	ug/L	
JWMW-04-0517	SE02018-007	WG	N	20	1,1-Dichloroethane	10.0	10.0 D	10.0	ug/L	
JWMW-04-0517	SE02018-007	WG	N	20	1,1-Dichloroethene	10.0	21.0 D	21.0	ug/L	
JWMW-04-0517	SE02018-007	WG	N	200	cis-1,2-Dichloroethylene	100	2400 D	2400	ug/L	
JWMW-04-0517	SE02018-007	WG	N	20	trans-1,2-Dichloroethene	10.0	37.0 D	37.0	ug/L	
JWMW-04-0517	SE02018-007	WG	N	200	Trichloroethene (TCE)	100	1100 D	1100	ug/L	
JWMW-05-0517	SE02018-008	WG	N	20	1,1-Dichloroethane	10.0	8.0 J D	8.0 J	ug/L	TR
JWMW-05-0517	SE02018-008	WG	N	20	1,1-Dichloroethene	10.0	16.0 D	16.0	ug/L	
JWMW-05-0517	SE02018-008	WG	N	20	cis-1,2-Dichloroethylene	10.0	270 D	270	ug/L	
JWMW-05-0517	SE02018-008	WG	N	20	trans-1,2-Dichloroethene	10.0	17.0 D	17.0	ug/L	
JWMW-05-0517	SE02018-008	WG	N	200	Trichloroethene (TCE)	100	1800 D	1800	ug/L	
JWMW-06A-0517	SE02018-016	WG	N	1	1,1-Dichloroethane	0.50	3.0	3.0	ug/L	
JWMW-06A-0517	SE02018-016	WG	N	1	1,1-Dichloroethene	0.50	2.6	2.6	ug/L	
JWMW-06A-0517	SE02018-016	WG	N	1	Acetone	5.0	6.5	6.5 J	ug/L	C11
JWMW-06A-0517	SE02018-016	WG	N	1	Chloromethane	0.50	0.17 J	0.17 J	ug/L	TR
JWMW-06A-0517	SE02018-016	WG	N	1	cis-1,2-Dichloroethylene	0.50	2.4	2.4	ug/L	
JWMW-06A-0517	SE02018-016	WG	N	1	Trichloroethene (TCE)	0.50	1.2	1.2	ug/L	
JWMW-06A-0517	SE02018-016	WG	N	1	Vinyl Chloride	0.50	0.37 J	0.37 J	ug/L	TR
JWMW-06B-0517	SE02018-017	WG	N	1	1,1-Dichloroethane	0.50	0.89	0.89	ug/L	
JWMW-06B-0517	SE02018-017	WG	N	1	1,1-Dichloroethene	0.50	0.85	0.85	ug/L	
JWMW-06B-0517	SE02018-017	WG	N	1	Acetone	5.0	6.4	6.4 J	ug/L	C11
JWMW-06B-0517	SE02018-017	WG	N	1	Chloromethane	0.50	0.18 J	0.18 J	ug/L	TR

Detected Results

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-06B-0517	SE02018-017	WG	N	1	cis-1,2-Dichloroethylene	0.50	3.2	3.2	ug/L	
JWMW-06B-0517	SE02018-017	WG	N	1	Trichloroethene (TCE)	0.50	1.2	1.2	ug/L	
JWMW-06B-0517	SE02018-017	WG	N	1	Vinyl Chloride	0.50	0.34 J	0.34 J	ug/L	TR
JWMW-07A-0517	SE02018-019	WG	N	1	1,1-Dichloroethane	0.50	3.6	3.6	ug/L	
JWMW-07A-0517	SE02018-019	WG	N	1	1,1-Dichloroethene	0.50	8.4	8.4	ug/L	
JWMW-07A-0517	SE02018-019	WG	N	1	Carbon Disulfide	0.50	0.17 J	0.17 J	ug/L	TR
JWMW-07A-0517	SE02018-019	WG	N	20	cis-1,2-Dichloroethylene	10.0	52.0 D	52.0	ug/L	
JWMW-07A-0517	SE02018-019	WG	N	1	trans-1,2-Dichloroethene	0.50	1.2	1.2	ug/L	
JWMW-07A-0517	SE02018-019	WG	N	20	Trichloroethene (TCE)	10.0	130 D	130	ug/L	
JWMW-07A-0517	SE02018-019	WG	N	1	Vinyl Chloride	0.50	1.2	1.2	ug/L	
JWMW-07B-0517	SE02018-020	WG	N	1	1,1-Dichloroethene	0.50	0.23 J	0.23 J	ug/L	TR
JWMW-07B-0517	SE02018-020	WG	N	1	1,2-Dichloroethane	0.50	5.2	5.2	ug/L	
JWMW-07B-0517	SE02018-020	WG	N	1	Acetone	5.0	4.7 J	4.7 J	ug/L	TR
JWMW-07B-0517	SE02018-020	WG	N	1	cis-1,2-Dichloroethylene	0.50	0.25 J	0.25 J	ug/L	TR
JWMW-07B-0517	SE02018-020	WG	N	1	Vinyl Chloride	0.50	0.16 J	0.16 J	ug/L	TR
JWMW-07C-0517	SE02018-021	WG	N	1	1,1-Dichloroethane	0.50	0.12 J	0.12 J	ug/L	TR
JWMW-07C-0517	SE02018-021	WG	N	1	1,1-Dichloroethene	0.50	0.20 J	0.20 J	ug/L	TR
JWMW-07C-0517	SE02018-021	WG	N	1	1,2-Dichloroethane	0.50	4.4	4.4	ug/L	
JWMW-07C-0517	SE02018-021	WG	N	1	Chlorobenzene	0.50	0.22 J	0.22 J	ug/L	TR
JWMW-07C-0517	SE02018-021	WG	N	1	cis-1,2-Dichloroethylene	0.50	0.68	0.68	ug/L	
JWMW-07C-0517	SE02018-021	WG	N	1	Trichloroethene (TCE)	0.50	0.27 J	0.27 J	ug/L	TR
JWMW-08A-0517	SE02018-013	WG	N	1	1,1-Dichloroethane	0.50	0.12 J	0.12 J	ug/L	TR
JWMW-08A-0517	SE02018-013	WG	N	1	1,1-Dichloroethene	0.50	0.59	0.59	ug/L	
JWMW-08A-0517	SE02018-013	WG	N	1	1,2-Dichloroethane	0.50	4.1	4.1	ug/L	
JWMW-08A-0517	SE02018-013	WG	N	1	Acetone	5.0	3.4 J	3.4 J	ug/L	TR
JWMW-08A-0517	SE02018-013	WG	N	5	cis-1,2-Dichloroethylene	2.5	33.0 D	33.0	ug/L	
JWMW-08A-0517	SE02018-013	WG	N	1	trans-1,2-Dichloroethene	0.50	2.1	2.1	ug/L	

Detected Results

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-08A-0517	SE02018-013	WG	N	5	Trichloroethene (TCE)	2.5	18.0 D	18.0	ug/L	
JWMW-08B-0517	SE02018-014	WG	N	1	1,2-Dichloroethane	0.50	4.5	4.5	ug/L	
JWMW-08B-0517	SE02018-014	WG	N	1	Acetone	5.0	3.8 J	3.8 J	ug/L	TR
JWMW-08B-0517	SE02018-014	WG	N	1	Carbon Disulfide	0.50	0.33 J	0.33 J	ug/L	TR
JWMW-08B-0517	SE02018-014	WG	N	1	cis-1,2-Dichloroethylene	0.50	1.3	1.3	ug/L	
JWMW-08B-0517	SE02018-014	WG	N	1	Trichloroethene (TCE)	0.50	0.61	0.61	ug/L	
JWMW-08C-0517	SE02018-015	WG	N	1	1,2-Dichloroethane	0.50	8.7	8.7	ug/L	
JWMW-08C-0517	SE02018-015	WG	N	1	1,2-Dichloropropane	0.50	0.27 J	0.27 J	ug/L	TR
JWMW-08C-0517	SE02018-015	WG	N	1	Benzene	0.50	0.31 J	0.31 J	ug/L	TR
JWMW-08C-0517	SE02018-015	WG	N	1	Carbon Disulfide	0.50	0.44 J	0.44 J	ug/L	TR
JWMW-08C-0517	SE02018-015	WG	N	1	cis-1,2-Dichloroethylene	0.50	0.69	0.69	ug/L	
JWMW-08C-0517	SE02018-015	WG	N	1	Trichloroethene (TCE)	0.50	0.34 J	0.34 J	ug/L	TR
JWMW-09A-0517	SE02018-003	WG	N	50	1,1-Dichloroethane	25.0	16.0 J D	16.0 J	ug/L	TR
JWMW-09A-0517	SE02018-003	WG	N	50	1,1-Dichloroethene	25.0	37.0 D	37.0	ug/L	
JWMW-09A-0517	SE02018-003	WG	N	500	cis-1,2-Dichloroethylene	250	3100 D	3100	ug/L	
JWMW-09A-0517	SE02018-003	WG	N	50	trans-1,2-Dichloroethene	25.0	64.0 D	64.0	ug/L	
JWMW-09A-0517	SE02018-003	WG	N	50	Trichloroethene (TCE)	25.0	120 D	120	ug/L	
JWMW-09B-0517	SE02018-004	WG	N	1	1,1-Dichloroethane	0.50	0.32 J	0.32 J	ug/L	TR
JWMW-09B-0517	SE02018-004	WG	N	1	1,1-Dichloroethene	0.50	0.60	0.60	ug/L	
JWMW-09B-0517	SE02018-004	WG	N	1	cis-1,2-Dichloroethylene	0.50	19.0	19.0	ug/L	
JWMW-09B-0517	SE02018-004	WG	N	1	trans-1,2-Dichloroethene	0.50	0.82	0.82	ug/L	
JWMW-09B-0517	SE02018-004	WG	N	1	Trichloroethene (TCE)	0.50	2.5	2.5	ug/L	
JWMW-09B-0517	SE02018-004	WG	N	1	Vinyl Chloride	0.50	0.26 J	0.26 J	ug/L	TR
JWMW-09C-0517	SE02018-005	WG	N	1	1,2-Dichloroethane	0.50	9.2	9.2	ug/L	
JWMW-09C-0517	SE02018-005	WG	N	1	1,2-Dichloropropane	0.50	0.18 J	0.18 J	ug/L	TR
JWMW-09C-0517	SE02018-005	WG	N	1	Acetone	5.0	5.9	5.9	ug/L	
JWMW-09C-0517	SE02018-005	WG	N	1	Chlorobenzene	0.50	0.25 J	0.25 J	ug/L	TR

Detected Results

Test Method: CVOL Extraction Method: SW5030C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
JWMW-09C-0517	SE02018-005	WG	N	1	cis-1,2-Dichloroethylene	0.50	2.0	2.0	ug/L	
JWMW-09C-0517	SE02018-005	WG	N	1	Cyclohexane	0.50	0.36 J	0.36 J	ug/L	TR
JWMW-09C-0517	SE02018-005	WG	N	1	Trichloroethene (TCE)	0.50	0.37 J	0.37 J	ug/L	TR
JWMW-09C-0517	SE02018-005	WG	N	1	Vinyl Chloride	0.50	0.15 J	0.15 J	ug/L	TR
JWMW-10-0517	SE02018-006	WG	N	1	1,2-Dichloroethane	0.50	0.73	0.73	ug/L	
JWMW-10-0517	SE02018-006	WG	N	1	cis-1,2-Dichloroethylene	0.50	0.29 J	0.29 J	ug/L	TR
JWMW-98B-0517	SE02018-012	WG	FD	1	1,2-Dichloroethane	0.50	4.6	4.6	ug/L	
JWMW-98B-0517	SE02018-012	WG	FD	1	Carbon Disulfide	0.50	0.27 J	0.27 J	ug/L	TR
JWMW-98B-0517	SE02018-012	WG	FD	1	cis-1,2-Dichloroethylene	0.50	1.3	1.3	ug/L	
JWMW-98B-0517	SE02018-012	WG	FD	1	Trichloroethene (TCE)	0.50	0.61	0.61	ug/L	

Rejected Results

--No Records Found--

Review Questions

Method: BNASIM

Review Questions	Yes	No	NA	Comment
Stage 2 Review: COC - Custody Trail?	•			COCs signed and custody seals on coolers were intact.
Stage 2 Review: COC - Temperature/Condition?	•			Samples received from 4.4 to 7.4 deg C. One cooler arrived the next day above goal of 6 deg C but exceedance was not excessive, and no data qualifiers appear warranted.
Stage 2 Review: COC - Receipt anomalies?	•			No receipt anomalies noted for SVSIM (1,4-dioxane) samples in 1-L amber bottles.
Stage 2 Review: COC - Sample/Methods checked?	•			Analyses requested for CLP 1,4-dioxane SIM by MA 2749.1
Stage 2 Review: Case Narrative - Anomalies?	•			Samples JWMW-06C-0517 (YABG1) and JWMW-08C-0517 (YABH0) were re-extracted (out of hold time) and re-analyzed due to low recovery of DMC 1,4-Dioxane-d8 in the initial analysis. Both the initial and re-analyses are included in the data package.
Stage 2 Review: Samples - Collection date?	•			Samples were collected 5/1, 5/2, and 5/3/2017.
Stage 2 Review: Samples - Extraction date?	•			Samples extracted 5/5/2017. Samples JWMW-06C-0517 (YABG1) and JWMW-08C-0517 (YABH0) were re-extracted out of hold time (H2) due to low DMC recoveries (S-), but original results were used so H2 reason codes were removed and S- codes remain.
Stage 2 Review: Samples - Analysis date?	•			Samples analyzed 5/17 and 5/18/2017.
Stage 2 Review: Samples - Holding time?	•			Samples were extracted within 7 days of sampling and analyzed within 40 days of extraction.
Stage 2 Review: Samples - Batching?	•			Batch SE02018
Stage 2 Review: Samples - Surrogate recoveries?	•			DMC recoveries were low in samples JWMW-06C-0517 (YABG1) and JWMW-08C-0517 (YABH0); and very high in samples JWMW-04-0517 (YABJ6)and JWMW-05-0517 (YABJ7). Results were qualified as estimated J biased low (-) or high (+), for surrogates (S) out.
Stage 2 Review: Samples - Lab qualifiers?	•			Lab qualifiers were for estimated J trace results and for original results that exceeded E calibration range and then were diluted D within calibration.
Stage 2 Review: Calibration - ICAL?	•			ICAL run on 5/17/2017; all avg. RRFs and %RSDs are acceptable.
Stage 2 Review: Calibration - ICV?	•			ICV run on 5/17/2017; all minimum and %D RRFs are acceptable
Stage 2 Review: Calibration - CCV?	•			CCVs run from 5/17 through 5/22/2017; all minimum and %D RRFs are acceptable.
Stage 2 Review: Blank - Method blank?	•			method blanks on 5/17 and 5/22/2017 not detected at 0.4 ug/L.
Stage 2 Review: Blank - Trip blank?			•	
Stage 2 Review: Blank - Equipment blank?	•			EB sample YABG2 non-detect at 0.38 ug/L
Stage 2 Review: Precision/Accuracy - MS/MSD?	•			Not required for this CLP method; see DMC surrogate comments.

Review Questions

Method: BNASIM

Review Questions	Yes	No	NA	Comment
Stage 2 Review: Precision/Accuracy - LCS/LCSD?	•			Not required for this CLP method; see DMC surrogate comments.
Stage 2 Review: Quantitation - PQLs?	•			No PQLs specified. Lab MDLs and RLs are acceptable for data quality objectives.
Stage 2 Review: Quantitation - Dilution Factor?	•			Dilution factors applied for 2x and 4x to MDLs and RLs
Stage 2 Review: Quantitation - Results (i.e. correct analytes)?	•			1,4-DXE and 1,4-DXE-d8 the only analytes required.
Stage 2 Review: Field Duplicates - RPD within limits?	•			Duplicate pair JWMW-98B/8B-0517 (YABG6/G9) RPD < 2; good.

Review Questions

Method: CVOL

Review Questions	Yes	No	NA	Comment
Stage 2 Review: COC - Custody Trail?	•			COCs signed and custody seals on coolers were intact.
Stage 2 Review: COC - Temperature/Condition?	•			Samples received from 4.4 to 7.4 deg C. One cooler arrived the next day above goal of 6 deg C but exceedance was not excessive, and no data qualifiers appear warranted.
Stage 2 Review: COC - Receipt anomalies?	•			Bubbles > 6mm noted for several samples including all three vials of trip blank JW-RL02-0517 (YABG3) supplied by a vendor. All results are ND and no qualifiers were applied.
Stage 2 Review: COC - Sample/Methods checked?	•			Analyses requested for CLP Trace Volatiles + 123-TCP
Stage 2 Review: Case Narrative - Anomalies?	•			Various re-analyses with dilutions are noted. Anti-foam agents added to several samples. No data quality issues require added qualifiers.
Stage 2 Review: Samples - Collection date?	•			Samples were collected 5/1, 5/2, and 5/3/2017.
Stage 2 Review: Samples - Extraction date?			•	
Stage 2 Review: Samples - Analysis date?	•			Samples analyzed from 5/4 to 5/9/2017.
Stage 2 Review: Samples - Holding time?	•			All samples analyzed within 7 days of sample collection.
Stage 2 Review: Samples - Batching?	•			Batch SE02018
Stage 2 Review: Samples - Surrogate recoveries?	•			Several DMC recoveries were above QC limits but all associated results were non-detects and no data qualifiers are required.
Stage 2 Review: Samples - Lab qualifiers?	•			Lab qualifiers were for exceeding calibration range (E) and subsequent diluted (D) re-analysis results.
Stage 2 Review: Calibration - ICAL?	•			Based on ESAT/ICF Tier 3 Validation Report for SDG YABH1, all DBCP results in YABF4 had RLs raised to 1 ug/L due to poor 5/4/2017 ICAL area counts at 0.5 ug/L, for professional judgment (X).
Stage 2 Review: Calibration - ICV?	•			ICV on 5/4/2017 has acceptable min. RRFs and %Ds for all analytes.
Stage 2 Review: Calibration - CCV?	•			Samples associated with an opening or closing CCV with % Difference (C11) exceeding criteria for acetone and 2-butanone (MEK)
Stage 2 Review: Blank - Method blank?	•			Trace detects of 1,2,3-trichlorobenzene found in several method blanks. All project results are non-detects and no qualifiers added.
Stage 2 Review: Blank - Trip blank?	•			Associated trip blanks collected on 5/1 and 5/2/2017 for each sample shipment are all non-detects.
Stage 2 Review: Blank - Field blank?	•			The equipment blank on 5/1/2017 is all non-detects.
Stage 2 Review: Precision/Accuracy - MS/MSD?	•			MS/MSDs not required for this CLP Volatiles method (see DMCs surrogate recoveries comments).
Stage 2 Review: Precision/Accuracy - LCS/LCSD?	•			LCS/LCSDs not required for this CLP Volatiles method (see DMCs surrogate recoveries comments).

Review Questions

Method: CVOL

Review Questions	Yes	No	NA	Comment
Stage 2 Review: Quantitation - PQLs?	•			PQLs not specified in SAP, trace volatiles RLs are acceptable for DQOs.
Stage 2 Review: Quantitation - Dilution Factor?	•			Dilution factors up to 500x required for c-1,2-DCE. All DF applied correctly to MDLs and RLs.
Stage 2 Review: Quantitation - Results (i.e. correct analytes)?	•			All CLP VOC reported correctly plus 1,2,3-TCP.
Stage 2 Review: Field Duplicates - RPD within limits?	•			Field duplicates JWMW-08C/98C. Acetone precision OK, < RL.

ATTACHMENT B

STAGE 3 DATA VALIDATION REPORTS

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AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Facility: Jervis Webb Superfund Site
June 2015 CPT Groundwater Sampling

Guidance Document: Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor: Gilbane Company, Walnut Creek, CA

Data Review Contractor: ESAT ICF International

SDG: Y9WS9, Certified - 8/27/2015 by wtse

QC Level: S3VEM (Tier 3)

Project Manager: Don Gruber

Data Reviewer: Lisa Brooker

Data Reviewer Title: Validator

Date of Review Report: October 09, 2015

Second Reviewer: Tom Beer - Gilbane

Completion Date of Second Reviewer: October 16, 2015

Samples Included in SDG Y9WS9

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	13	3
CVOL/NONE	14	6

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) Y9WS9. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- LCS Recovery
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 569 results (53.88%) out of the 1056 results (sample and field QC samples) reported are qualified based on review and 97 results (9.19%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

ESAT reviewed KAP lab report, EXES validation report, COC as received, and raw data.

All samples were received at elevated temperatures (T) and most VOC results were qualified as estimated (J/UJ). Both bottles for 1,4-dioxane analysis in sample JW-CPT09-105 were broken and no result was generated. Other breakages still allowed for sample analysis.

Data qualifiers were also added for method blank contamination (B1), and some matrix interferences for high recoveries (M+) and/or RPDs (D2).

Two samples for VOCs analysis had all non-detects (U) rejected (R) due exceedance of hold times for under-acidified samples (pH = 5 and 6).

09-Oct-2015

Released by Lisa Brooker, Validator

Tom Beer

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2015.10.16 16:06:59 -07'00'

16-Oct-2015

Released by Tom Beer - Gilbane

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C21657	C21679	NA	JW-CPT09	WG	JW-CPT09-130	S-1059.04	C21641	1/1	23-Jun-2015 2:50 PM	26-Jun-2015 1:45 PM	09-Jul-2015 11:35 PM	N
	C21679	NA	JW-CPT09	WG	JW-CPT09-60	S-1059.01	C21641	1/1	23-Jun-2015 10:10 AM	26-Jun-2015 1:45 PM	09-Jul-2015 11:09 PM	N
	C21679	NA	JW-CPT09	WG	JW-CPT09-90	S-1059.02	C21641	1/1	23-Jun-2015 12:05 PM	26-Jun-2015 1:45 PM	09-Jul-2015 11:22 PM	N
	C21679	NA	JW-CPT13	WG	JW-CPT13-105	S-1063.05	C21641	1/1	25-Jun-2015 1:20 PM	26-Jun-2015 1:45 PM	10-Jul-2015 2:12 AM	N
	C21679	NA	JW-CPT13	WG	JW-CPT13-75	S-1063.02	C21641	1/1	25-Jun-2015 10:45 AM	26-Jun-2015 1:45 PM	10-Jul-2015 1:33 AM	N
	C21679	NA	JW-CPT13	WG	JW-CPT13-90	S-1063.03	C21641	1/1	25-Jun-2015 12:15 PM	26-Jun-2015 1:45 PM	10-Jul-2015 1:46 AM	N
	C21679	NA	JW-CPT13	WG	JW-CPT13-91	S-1063.04	C21641	1/1	25-Jun-2015 12:20 PM	26-Jun-2015 1:45 PM	10-Jul-2015 1:59 AM	FD
	C21679	NA	JW-CPT14	WG	JW-CPT14-105	S-1061.04	C21641	1/1	24-Jun-2015 12:55 PM	26-Jun-2015 1:45 PM	10-Jul-2015 12:40 AM	N
	C21679	NA	JW-CPT14	WG	JW-CPT14-130	S-1061.05	C21641	1/1	24-Jun-2015 1:50 PM	26-Jun-2015 1:45 PM	10-Jul-2015 12:53 AM	N
	C21679	NA	JW-CPT14	WG	JW-CPT14-60	S-1061.01	C21641	1/1	24-Jun-2015 10:25 AM	26-Jun-2015 1:45 PM	10-Jul-2015 12:01 AM	N
	C21679	NA	JW-CPT14	WG	JW-CPT14-75	S-1061.02	C21641	1/1	24-Jun-2015 11:30 AM	26-Jun-2015 1:45 PM	10-Jul-2015 12:14 AM	N
	C21679	NA	JW-CPT14	WG	JW-CPT14-90	S-1061.03	C21641	1/1	24-Jun-2015 12:10 PM	26-Jun-2015 1:45 PM	10-Jul-2015 12:27 AM	N
	C21679	NA	LABQC	WQ	LABQC	SBLK51	C21641	1/1	26-Jun-2015 1:45 PM	26-Jun-2015 1:45 PM	09-Jul-2015 10:56 PM	LB
C21699	C21679	NA	FIELDQC	WQ	JW-EL03-0615	S-1061.06	C21641	1/1	24-Jun-2015 2:00 PM	26-Jun-2015 1:45 PM	10-Jul-2015 4:28 PM	EB
	C21679	NA	JW-CPT13	WG	JW-CPT13-130	S-1063.06	C21641	1/1	25-Jun-2015 2:05 PM	26-Jun-2015 1:45 PM	10-Jul-2015 4:54 PM	N
	C21679	NA	JW-CPT13	WG	JW-CPT13-60	S-1063.01	C21641	1/1	25-Jun-2015 9:45 AM	26-Jun-2015 1:45 PM	10-Jul-2015 4:41 PM	N
C21765	C21679	NA	FIELDQC	WQ	JW-EL02-0615	S-1059.05	C21641	1/1	23-Jun-2015 3:10 PM	26-Jun-2015 1:45 PM	13-Jul-2015 12:50 PM	EB

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B01081	B01087	NA	JW-CPT13	WG	JW-CPT13-105	S-1063.05	B01085	1/1	25-Jun-2015 1:20 PM	05-Jul-2015 11:58 PM	05-Jul-2015 11:58 PM	N
	B01087	NA	JW-CPT13	WG	JW-CPT13-90	S-1063.03	B01085	1/1	25-Jun-2015 12:15 PM	05-Jul-2015 10:54 PM	05-Jul-2015 10:54 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B01081	B01087	NA	JW-CPT13	WG	JW-CPT13-91	S-1063.04	B01085	1/1	25-Jun-2015 12:20 PM	05-Jul-2015 11:26 PM	05-Jul-2015 11:26 PM	FD
	B01087	NA	LABQC	WQ	LABQC	VBLK11	B01085	1/1	05-Jul-2015 9:49 PM	05-Jul-2015 9:49 PM	05-Jul-2015 9:49 PM	LB
G32213	G32221	NA	FIELDQC	WQ	JW-EL02-0615	S-1059.05	G32219	1/1	23-Jun-2015 3:10 PM	03-Jul-2015 8:16 PM	03-Jul-2015 8:16 PM	EB
	G32221	NA	JW-CPT09	WG	JW-CPT09-105	S-1059.03	G32219	1/1	23-Jun-2015 1:30 PM	03-Jul-2015 6:50 PM	03-Jul-2015 6:50 PM	N
	G32221	NA	JW-CPT09	WG	JW-CPT09-130	S-1059.04	G32219	1/1	23-Jun-2015 2:50 PM	03-Jul-2015 7:47 PM	03-Jul-2015 7:47 PM	N
	G32221	NA	JW-CPT09	WG	JW-CPT09-60	S-1059.01	G32219	1/1	23-Jun-2015 10:10 AM	03-Jul-2015 6:21 PM	03-Jul-2015 6:21 PM	N
	G32221	NA	JW-CPT09	WG	JW-CPT09-90	S-1059.02	G32219	1/1	23-Jun-2015 12:05 PM	03-Jul-2015 8:44 PM	03-Jul-2015 8:44 PM	N
	G32221	NA	LABQC	WQ	LABQC	VBLK5W	G32219	1/1	03-Jul-2015 3:26 PM	03-Jul-2015 3:26 PM	03-Jul-2015 3:26 PM	LB
G32234	G32238	NA	FIELDQC	WQ	JW-RL07-0615	S-1059.06	G32219	1/1	23-Jun-2015 8:30 AM	04-Jul-2015 3:26 PM	04-Jul-2015 3:26 PM	TB
	G32238	NA	JW-CPT09	WG	JW-CPT09-90	S-1059.02	G32219	1/4	23-Jun-2015 12:05 PM	04-Jul-2015 2:57 PM	04-Jul-2015 2:57 PM	N
	G32238	NA	LABQC	WQ	LABQC	VBLK5Y	G32219	1/1	04-Jul-2015 1:26 PM	04-Jul-2015 1:26 PM	04-Jul-2015 1:26 PM	LB
G32252	G32256	NA	FIELDQC	WQ	JW-EL03-0615	S-1061.06	G32219	1/1	24-Jun-2015 2:00 PM	05-Jul-2015 6:01 PM	05-Jul-2015 6:01 PM	EB
	G32256	NA	FIELDQC	WQ	JW-RL08-0615	S-1061.07	G32219	1/1	24-Jun-2015 7:10 AM	05-Jul-2015 6:30 PM	05-Jul-2015 6:30 PM	TB
	G32256	NA	JW-CPT13	WG	JW-CPT13-60	S-1063.01	G32219	1/1	25-Jun-2015 9:45 AM	05-Jul-2015 9:01 PM	05-Jul-2015 9:01 PM	N
	G32256	NA	JW-CPT13	WG	JW-CPT13-75	S-1063.02	G32219	1/1	25-Jun-2015 10:45 AM	05-Jul-2015 9:31 PM	05-Jul-2015 9:31 PM	N
	G32256	NA	JW-CPT14	WG	JW-CPT14-105	S-1061.04	G32219	1/1	24-Jun-2015 12:55 PM	05-Jul-2015 5:04 PM	05-Jul-2015 5:04 PM	N
	G32256	NA	JW-CPT14	WG	JW-CPT14-130	S-1061.05	G32219	1/1	24-Jun-2015 1:50 PM	05-Jul-2015 5:32 PM	05-Jul-2015 5:32 PM	N
	G32256	NA	JW-CPT14	WG	JW-CPT14-60	S-1061.01	G32219	1/1	24-Jun-2015 10:25 AM	05-Jul-2015 4:06 PM	05-Jul-2015 4:06 PM	N
	G32256	NA	JW-CPT14	WG	JW-CPT14-75	S-1061.02	G32219	1/1	24-Jun-2015 11:30 AM	05-Jul-2015 6:59 PM	05-Jul-2015 6:59 PM	N
	G32256	NA	JW-CPT14	WG	JW-CPT14-90	S-1061.03	G32219	1/1	24-Jun-2015 12:10 PM	05-Jul-2015 4:35 PM	05-Jul-2015 4:35 PM	N
	G32256	NA	LABQC	WQ	LABQC	VBLK6A	G32219	1/1	05-Jul-2015 3:30 PM	05-Jul-2015 3:30 PM	05-Jul-2015 3:30 PM	LB
G32271	G32274	NA	FIELDQC	WQ	JW-RL09-0615	S-1063.07	G32219	1/1	25-Jun-2015 7:50 AM	06-Jul-2015 2:03 AM	06-Jul-2015 2:03 AM	TB

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32271	G32274	NA	JW-CPT13	WG	JW-CPT13-130	S-1063.06	G32219	1/1	25-Jun-2015 2:05 PM	06-Jul-2015 1:35 AM	06-Jul-2015 1:35 AM	N
	G32274	NA	JW-CPT14	WG	JW-CPT14-75	S-1061.02MS	G32219	1/1	24-Jun-2015 11:30 AM	06-Jul-2015 2:32 AM	06-Jul-2015 2:32 AM	MS
	G32274	NA	JW-CPT14	WG	JW-CPT14-75	S-1061.02MSD	G32219	1/1	24-Jun-2015 11:30 AM	06-Jul-2015 3:00 AM	06-Jul-2015 3:00 AM	SD
	G32274	NA	LABQC	WQ	LABQC	VBLK6C	G32219	1/1	06-Jul-2015 1:04 AM	06-Jul-2015 1:04 AM	06-Jul-2015 1:04 AM	LB
G32300	G32303	NA	LABQC	WQ	LABQC	VBLK6F	G32288	1/1	08-Jul-2015 11:07 AM	08-Jul-2015 11:07 AM	08-Jul-2015 11:07 AM	LB
	G32303	NA	LABQC	WQ	LABQC	S-1059.07	G32288	1/1	08-Jul-2015 12:59 PM	08-Jul-2015 12:59 PM	08-Jul-2015 12:59 PM	LB

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
24061501			FIELDQC	WQ	JW-EL03-0615	S-1061.06	6/24/2015 2:00:00 PM	EB
24061501			JW-CPT14	WG	JW-CPT14-105	S-1061.04	6/24/2015 12:55:00 PM	N
24061501			JW-CPT14	WG	JW-CPT14-130	S-1061.05	6/24/2015 1:50:00 PM	N
24061501			JW-CPT14	WG	JW-CPT14-60	S-1061.01	6/24/2015 10:25:00 AM	N
24061501			JW-CPT14	WG	JW-CPT14-75	S-1061.02	6/24/2015 11:30:00 AM	N
24061501			JW-CPT14	WG	JW-CPT14-90	S-1061.03	6/24/2015 12:10:00 PM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
24061501			FIELDQC	WQ	JW-EL03-0615	S-1061.06	6/24/2015 2:00:00 PM	EB
24061501			JW-CPT14	WG	JW-CPT14-105	S-1061.04	6/24/2015 12:55:00 PM	N
24061501			JW-CPT14	WG	JW-CPT14-130	S-1061.05	6/24/2015 1:50:00 PM	N
24061501			JW-CPT14	WG	JW-CPT14-60	S-1061.01	6/24/2015 10:25:00 AM	N
24061501			JW-CPT14	WG	JW-CPT14-75	S-1061.02	6/24/2015 11:30:00 AM	N
24061501			JW-CPT14	WG	JW-CPT14-75	S-1061.02MS	6/24/2015 11:30:00 AM	MS
24061501			JW-CPT14	WG	JW-CPT14-75	S-1061.02MSD	6/24/2015 11:30:00 AM	SD
24061501			JW-CPT14	WG	JW-CPT14-90	S-1061.03	6/24/2015 12:10:00 PM	N

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
23061501			FIELDQC	WQ	JW-EL02-0615	S-1059.05	6/23/2015 3:10:00 PM	EB
23061501			JW-CPT09	WG	JW-CPT09-130	S-1059.04	6/23/2015 2:50:00 PM	N
23061501			JW-CPT09	WG	JW-CPT09-60	S-1059.01	6/23/2015 10:10:00 AM	N
23061501			JW-CPT09	WG	JW-CPT09-90	S-1059.02	6/23/2015 12:05:00 PM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
23061501			FIELDQC	WQ	JW-EL02-0615	S-1059.05	6/23/2015 3:10:00 PM	EB
23061501			JW-CPT09	WG	JW-CPT09-105	S-1059.03	6/23/2015 1:30:00 PM	N
23061501			JW-CPT09	WG	JW-CPT09-130	S-1059.04	6/23/2015 2:50:00 PM	N
23061501			JW-CPT09	WG	JW-CPT09-60	S-1059.01	6/23/2015 10:10:00 AM	N
23061501			JW-CPT09	WG	JW-CPT09-90	S-1059.02	6/23/2015 12:05:00 PM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	25061501		JW-CPT13	WG	JW-CPT13-105	S-1063.05	6/25/2015 1:20:00 PM	N
	25061501		JW-CPT13	WG	JW-CPT13-130	S-1063.06	6/25/2015 2:05:00 PM	N
	25061501		JW-CPT13	WG	JW-CPT13-60	S-1063.01	6/25/2015 9:45:00 AM	N
	25061501		JW-CPT13	WG	JW-CPT13-75	S-1063.02	6/25/2015 10:45:00 AM	N
	25061501		JW-CPT13	WG	JW-CPT13-90	S-1063.03	6/25/2015 12:15:00 PM	N
	25061501		JW-CPT13	WG	JW-CPT13-91	S-1063.04	6/25/2015 12:20:00 PM	FD
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	25061501		FIELDQC	WQ	JW-RL09-0615	S-1063.07	6/25/2015 7:50:00 AM	TB
	25061501		JW-CPT13	WG	JW-CPT13-105	S-1063.05	6/25/2015 1:20:00 PM	N
	25061501		JW-CPT13	WG	JW-CPT13-130	S-1063.06	6/25/2015 2:05:00 PM	N
	25061501		JW-CPT13	WG	JW-CPT13-60	S-1063.01	6/25/2015 9:45:00 AM	N
	25061501		JW-CPT13	WG	JW-CPT13-75	S-1063.02	6/25/2015 10:45:00 AM	N
	25061501		JW-CPT13	WG	JW-CPT13-90	S-1063.03	6/25/2015 12:15:00 PM	N
	25061501		JW-CPT13	WG	JW-CPT13-91	S-1063.04	6/25/2015 12:20:00 PM	FD

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	24061501		JW-CPT14	WG	JW-CPT14-105	S-1061.04	6/24/2015 12:55:00 PM	N
	24061501		JW-CPT14	WG	JW-CPT14-130	S-1061.05	6/24/2015 1:50:00 PM	N
	24061501		JW-CPT14	WG	JW-CPT14-60	S-1061.01	6/24/2015 10:25:00 AM	N
	24061501		JW-CPT14	WG	JW-CPT14-75	S-1061.02	6/24/2015 11:30:00 AM	N
	24061501		JW-CPT14	WG	JW-CPT14-90	S-1061.03	6/24/2015 12:10:00 PM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	24061501		FIELDQC	WQ	JW-RL08-0615	S-1061.07	6/24/2015 7:10:00 AM	TB
	24061501		JW-CPT14	WG	JW-CPT14-105	S-1061.04	6/24/2015 12:55:00 PM	N
	24061501		JW-CPT14	WG	JW-CPT14-130	S-1061.05	6/24/2015 1:50:00 PM	N
	24061501		JW-CPT14	WG	JW-CPT14-60	S-1061.01	6/24/2015 10:25:00 AM	N
	24061501		JW-CPT14	WG	JW-CPT14-75	S-1061.02	6/24/2015 11:30:00 AM	N
	24061501		JW-CPT14	WG	JW-CPT14-75	S-1061.02MS	6/24/2015 11:30:00 AM	MS
	24061501		JW-CPT14	WG	JW-CPT14-75	S-1061.02MSD	6/24/2015 11:30:00 AM	SD
	24061501		JW-CPT14	WG	JW-CPT14-90	S-1061.03	6/24/2015 12:10:00 PM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	23061501		JW-CPT09	WG	JW-CPT09-130	S-1059.04	6/23/2015 2:50:00 PM	N
	23061501		JW-CPT09	WG	JW-CPT09-60	S-1059.01	6/23/2015 10:10:00 AM	N
	23061501		JW-CPT09	WG	JW-CPT09-90	S-1059.02	6/23/2015 12:05:00 PM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	23061501		FIELDQC	WQ	JW-RL07-0615	S-1059.06	6/23/2015 8:30:00 AM	TB

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	23061501		JW-CPT09	WG	JW-CPT09-105	S-1059.03	6/23/2015 1:30:00 PM	N
	23061501		JW-CPT09	WG	JW-CPT09-130	S-1059.04	6/23/2015 2:50:00 PM	N
	23061501		JW-CPT09	WG	JW-CPT09-60	S-1059.01	6/23/2015 10:10:00 AM	N
	23061501		JW-CPT09	WG	JW-CPT09-90	S-1059.02	6/23/2015 12:05:00 PM	N

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Field Duplicate RPD	S-1063.04 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	31.6	RPD	None/None	< 25	< 50	D5		RPD	
CVOL / METHOD	Blank	VBLK11 (LB)	1 / 1.00	Methylene Chloride	0.200	ug/L	U/None	< 0.1	< 0.5	B1		2	0.400
CVOL / METHOD	Blank	VBLK6F (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.340	ug/L	U/None	< 0.3	< 0.5	B1		1	0.340
CVOL / METHOD	Blank	VBLK6F (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.310	ug/L	U/None	< 0.2	< 0.5	B1		1	0.310
CVOL / METHOD	Equipment Blank	JW-EL02-0615 (EB)	1 / 1.00	Toluene	0.760	ug/L	U/None	< 0.2	< 0.5	K1		1	0.760
CVOL / METHOD	Equipment Blank	JW-EL03-0615 (EB)	1 / 1.00	Toluene	1.10	ug/L	U/None	< 0.2	< 0.5	K1		1	1.10
CVOL / METHOD	MS Recovery	JW-CPT14-75 (SD)	1 / 1.00	1,1-Dichloroethene	134	Percent	J/None	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	JW-CPT14-75 (MS)	1 / 1.00	1,1-Dichloroethene	152	Percent	J/None	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	JW-CPT14-75 (MS)	1 / 1.00	Benzene	148	Percent	J/None	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	JW-CPT14-75 (MS)	1 / 1.00	Toluene	148	Percent	J/None	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	JW-CPT14-75 (SD)	1 / 1.00	Trichloroethene (TCE)	178	Percent	J/None	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	JW-CPT14-75 (MS)	1 / 1.00	Trichloroethene (TCE)	198	Percent	J/None	70 - 130	20 - 140	M			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT13-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.45 J	0.45 J	ug/L	TR
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WG	JW-CPT09-130	N	1,2,3-Trichlorobenzene	0.50	0.48 J	0.48 J	ug/L	TR
CVOL/NONE	WG	JW-CPT09-130	N	1,2,4-Trichlorobenzene	0.50	0.32 J	0.32 J	ug/L	TR
CVOL/NONE	WG	JW-CPT13-105	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,2-Dichloroethane	0.50	1.3	1.3 J	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Acetone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Benzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-105	N	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Methylene Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Styrene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Toluene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-105	N	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-105	N	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,2-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Acetone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Benzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-130	N	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Methylene Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Styrene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Toluene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-130	N	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-60	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,1-Dichloroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,1-Dichloroethene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2-Dichloroethane	0.50	3.1	3.1 J	ug/L	H1/T
CVOL/NONE	WG	JW-CPT13-60	N	1,2-Dichloropropane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	2-Butanone (MEK)	5.0	5.0 U	5.0 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	2-Hexanone	5.0	5.0 U	5.0 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Acetone	5.0	5.0 U	5.0 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Benzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Bromochloromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Bromodichloromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Bromoform	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Bromomethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Carbon Disulfide	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Carbon Tetrachloride	0.50	0.50 U	0.50 R	ug/L	H1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-60	N	Chlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Chloroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Chloroform	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Chloromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Cyclohexane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Dibromochloromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Ethylbenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	m,p-Xylene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Methyl Acetate	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Methylcyclohexane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Methylene Chloride	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	o-Xylene	0.50	1.7	1.7 J	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Styrene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Toluene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Trichloroethene (TCE)	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Trichlorofluoromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Vinyl Chloride	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-75	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-75	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,2-Dichloroethane	0.50	0.98	0.98 J	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Acetone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Benzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-75	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Methylene Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Styrene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Toluene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-75	N	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-90	N	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,2-Dichloroethane	0.50	0.50 J	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Acetone	5.0	5.0 J	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Benzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	T

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-90	N	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Methylene Chloride	0.50	0.50 JB	0.50 UJ	ug/L	T/B1
CVOL/NONE	WG	JW-CPT13-90	N	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Styrene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Toluene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-90	N	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-91	FD	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,2-Dichloroethane	0.50	0.50 J	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Acetone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Benzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-91	FD	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Methylene Chloride	0.50	0.50 JB	0.50 UJ	ug/L	T/B1
CVOL/NONE	WG	JW-CPT13-91	FD	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Styrene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Toluene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Trichloroethene (TCE)	0.50	0.50 J	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT13-91	FD	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-105	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,2-Dichloroethane	0.50	1.7	1.7 J	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-105	N	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Methylene Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Styrene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Toluene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,2-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-130	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Acetone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Benzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-130	N	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Methylene Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Styrene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Toluene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-130	N	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-60	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,1-Dichloroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,1-Dichloroethene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2-Dichloroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2-Dichloropropane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-60	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	2-Butanone (MEK)	5.0	5.0 U	5.0 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	2-Hexanone	5.0	5.0 U	5.0 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Acetone	5.0	8.5	8.5 J	ug/L	H1/T
CVOL/NONE	WG	JW-CPT14-60	N	Benzene	0.50	9.5	9.5 J	ug/L	H1/T
CVOL/NONE	WG	JW-CPT14-60	N	Bromochloromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Bromodichloromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Bromoform	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Bromomethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Carbon Disulfide	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Carbon Tetrachloride	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Chlorobenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Chloroethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Chloroform	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Chloromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	cis-1,2-Dichloroethylene	0.50	3.8	3.8 J	ug/L	H1/T
CVOL/NONE	WG	JW-CPT14-60	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Cyclohexane	0.50	1.1	1.1 J	ug/L	H1/T
CVOL/NONE	WG	JW-CPT14-60	N	Dibromochloromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Ethylbenzene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	m,p-Xylene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Methyl Acetate	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Methylcyclohexane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Methylene Chloride	0.50	0.50 U	0.50 R	ug/L	H1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-60	N	o-Xylene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Styrene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Toluene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Trichloroethene (TCE)	0.50	8.6	8.6 J	ug/L	H1/T
CVOL/NONE	WG	JW-CPT14-60	N	Trichlorofluoromethane	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Vinyl Chloride	0.50	0.50 U	0.50 R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-75	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,1-Dichloroethane	0.50	0.83	0.83 J	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,1-Dichloroethene	0.50	2.4	2.4 J	ug/L	T/M
CVOL/NONE	WG	JW-CPT14-75	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,2-Dichloroethane	0.50	17.0	17.0 J	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-75	N	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Acetone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Benzene	0.50	0.50 U	0.50 UJ	ug/L	T/D2/M
CVOL/NONE	WG	JW-CPT14-75	N	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T/D2
CVOL/NONE	WG	JW-CPT14-75	N	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	cis-1,2-Dichloroethylene	0.50	2.7	2.7 J	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Cyclohexane	0.50	1.4	1.4 J	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Methylene Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Styrene	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-75	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Toluene	0.50	0.50 U	0.50 UJ	ug/L	T/D2/M
CVOL/NONE	WG	JW-CPT14-75	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Trichloroethene (TCE)	0.50	8.1	8.1 J	ug/L	T/M
CVOL/NONE	WG	JW-CPT14-75	N	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,2-Dichloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	2-Hexanone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-90	N	Acetone	5.0	5.0 U	5.0 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Benzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Bromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Bromodichloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Bromoform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Carbon Disulfide	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Chloroethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Chloroform	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Chloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Cyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Dibromochloromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Ethylbenzene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	m,p-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Methyl Acetate	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Methylcyclohexane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Methylene Chloride	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	o-Xylene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Styrene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	ug/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-90	N	Toluene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	ug/L	T
CVOL/NONE	WG	JW-CPT14-90	N	Vinyl Chloride	0.50	0.50 U	0.50 UJ	ug/L	T

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	JW-CPT09-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.89	0.89	ug/L	
BNASIM/NONE	WG	JW-CPT09-90	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.6	ug/L	
BNASIM/NONE	WG	JW-CPT13-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.45 J	0.45 J	ug/L	TR
BNASIM/NONE	WG	JW-CPT13-90	N	1,4-Dioxane (p-Dioxane)	0.50	1.1	1.1	ug/L	
BNASIM/NONE	WG	JW-CPT13-91	FD	1,4-Dioxane (p-Dioxane)	0.50	0.80	0.80	ug/L	
BNASIM/NONE	WG	JW-CPT14-105	N	1,4-Dioxane (p-Dioxane)	0.50	1.1	1.1	ug/L	
BNASIM/NONE	WG	JW-CPT14-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.71	0.71	ug/L	
BNASIM/NONE	WG	JW-CPT14-75	N	1,4-Dioxane (p-Dioxane)	0.50	0.89	0.89	ug/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT09-105	N	Acetone	5.0	16.0	16.0	ug/L	
CVOL/NONE	WG	JW-CPT09-130	N	Acetone	5.0	18.0	18.0	ug/L	
CVOL/NONE	WG	JW-CPT09-130	N	1,2,3-Trichlorobenzene	0.50	0.48 J	0.48 J	ug/L	TR
CVOL/NONE	WG	JW-CPT09-130	N	1,2,4-Trichlorobenzene	0.50	0.32 J	0.32 J	ug/L	TR
CVOL/NONE	WG	JW-CPT09-60	N	1,2-Dichloroethane	0.50	0.82	0.82	ug/L	
CVOL/NONE	WG	JW-CPT09-60	N	cis-1,2-Dichloroethylene	0.50	0.50	0.50	ug/L	
CVOL/NONE	WG	JW-CPT09-90	N	Acetone	5.0	5.7	5.7	ug/L	
CVOL/NONE	WG	JW-CPT09-90	N	1,2-Dichloroethane	0.50	30.0 D	30.0	ug/L	
CVOL/NONE	WG	JW-CPT09-90	N	cis-1,2-Dichloroethylene	0.50	0.54	0.54	ug/L	
CVOL/NONE	WG	JW-CPT09-90	N	1,2-Dichloropropane	0.50	0.61	0.61	ug/L	
CVOL/NONE	WG	JW-CPT13-105	N	1,2-Dichloroethane	0.50	1.3	1.3 J	ug/L	T
CVOL/NONE	WG	JW-CPT13-60	N	1,2-Dichloroethane	0.50	3.1	3.1 J	ug/L	H1/T
CVOL/NONE	WG	JW-CPT13-60	N	o-Xylene	0.50	1.7	1.7 J	ug/L	H1
CVOL/NONE	WG	JW-CPT13-75	N	1,2-Dichloroethane	0.50	0.98	0.98 J	ug/L	T
CVOL/NONE	WG	JW-CPT14-105	N	1,2-Dichloroethane	0.50	1.7	1.7 J	ug/L	T
CVOL/NONE	WG	JW-CPT14-60	N	Acetone	5.0	8.5	8.5 J	ug/L	H1/T
CVOL/NONE	WG	JW-CPT14-60	N	Benzene	0.50	9.5	9.5 J	ug/L	H1/T

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-60	N	Cyclohexane	0.50	1.1	1.1 J	ug/L	H1/T
CVOL/NONE	WG	JW-CPT14-60	N	cis-1,2-Dichloroethylene	0.50	3.8	3.8 J	ug/L	H1/T
CVOL/NONE	WG	JW-CPT14-60	N	Trichloroethene (TCE)	0.50	8.6	8.6 J	ug/L	H1/T
CVOL/NONE	WG	JW-CPT14-75	N	Cyclohexane	0.50	1.4	1.4 J	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,1-Dichloroethane	0.50	0.83	0.83 J	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,2-Dichloroethane	0.50	17.0	17.0 J	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	1,1-Dichloroethene	0.50	2.4	2.4 J	ug/L	T/M
CVOL/NONE	WG	JW-CPT14-75	N	cis-1,2-Dichloroethylene	0.50	2.7	2.7 J	ug/L	T
CVOL/NONE	WG	JW-CPT14-75	N	Trichloroethene (TCE)	0.50	8.1	8.1 J	ug/L	T/M
CVOL/NONE	WQ	JW-EL02-0615	EB	Toluene	0.50	0.76	0.76	ug/L	
CVOL/NONE	WQ	JW-EL03-0615	EB	Toluene	0.50	1.1	1.1	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-60	N	Acetone	5.0	5.0 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Bromodichloromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Bromochloromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Bromomethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Benzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Toluene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Carbon Disulfide	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Methylcyclohexane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Chlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Chloroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Chloromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Carbon Tetrachloride	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Cyclohexane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Dibromochloromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,1-Dichloroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2-Dichlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,3-Dichlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,4-Dichlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,1-Dichloroethene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	cis-1,2-Dichloroethylene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	trans-1,2-Dichloroethene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	cis-1,3-Dichloropropene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	trans-1,3-Dichloropropene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2-Dichloropropane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Ethylbenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	R	ug/L	H1

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT13-60	N	Trichlorofluoromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Dichlorodifluoromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	2-Hexanone	5.0	5.0 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Isopropylbenzene (Cumene)	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Methyl Acetate	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	2-Butanone (MEK)	5.0	5.0 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Methylene Chloride	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Tetrachloroethene (PCE)	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Styrene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Bromoform	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,1,1-Trichloroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,1,2-Trichloroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2,3-Trichlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2,4-Trichlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Trichloroethene (TCE)	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Chloroform	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	1,2,3-Trichloropropane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	Vinyl Chloride	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT13-60	N	m,p-Xylene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Bromodichloromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Bromochloromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Bromomethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Toluene	0.50	0.50 U	R	ug/L	H1

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-60	N	Carbon Disulfide	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Methylcyclohexane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Chlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Chloroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Chloromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Carbon Tetrachloride	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Dibromochloromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,1-Dichloroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2-Dichloroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2-Dichlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,3-Dichlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,4-Dichlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,1-Dichloroethene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	trans-1,2-Dichloroethene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	cis-1,3-Dichloropropene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	trans-1,3-Dichloropropene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2-Dichloropropane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Ethylbenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Trichlorofluoromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Dichlorodifluoromethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	2-Hexanone	5.0	5.0 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Isopropylbenzene (Cumene)	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Methyl Acetate	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	2-Butanone (MEK)	5.0	5.0 U	R	ug/L	H1

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	JW-CPT14-60	N	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Methylene Chloride	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Tetrachloroethene (PCE)	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Styrene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Bromoform	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,1,1-Trichloroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,1,2-Trichloroethane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2,3-Trichlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2,4-Trichlorobenzene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Chloroform	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	1,2,3-Trichloropropane	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	Vinyl Chloride	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	m,p-Xylene	0.50	0.50 U	R	ug/L	H1
CVOL/NONE	WG	JW-CPT14-60	N	o-Xylene	0.50	0.50 U	R	ug/L	H1

AUTOMATED DATA REVIEW SUMMARY for Y9WS9

AUTOMATED DATA REVIEW SUMMARY for J1630072

Facility:	Jervis Webb Superfund Site Spring 2015 Soil/Soil Gas Sampling Event
Guidance Document:	Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015
Contract Laboratory:	H&P MOBILE GEOCHEMISTRY, CARLSBAD, CA
Field Contractor:	Gilbane Company, Walnut Creek, CA
Data Review Contractor:	
SDG:	J1630072, Certified - 5/15/2015 by wtse
QC Level:	EPA Tier 1B and Tier 3
Project Manager:	Peter Phillips
Data Reviewer:	Peggy Cota
Data Reviewer Title:	Project Chemist
Date of Review Report:	June 30, 2015
Second Reviewer:	Tom Beer
Completion Date of Second Reviewer:	

Samples Included in SDG J1630072

Analytical Method/ Leach Method	Normal Gaseous Samples	Field QC Gaseous Samples
TO15/NONE	87	8

AUTOMATED DATA REVIEW SUMMARY for J1630072

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Sampling and Analysis Plan, RI/FS, Gilbane, January 2015 to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane Company, Walnut Creek, CA; analyses were performed by H&P MOBILE GEOCHEMISTRY, CARLSBAD, CA and were reported under sample delivery group (SDG) J1630072. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for J1630072

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 47 results (1.24%) out of the 3799 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments (See also "Additions to Narrative Comments" in this ADR.)

The 95 samples in this SDG underwent an EPA Tier 1B review. In addition, 16 samples or 16.8% underwent a Tier 3 validation. The Tier 3 samples are listed in Additions to the Narrative Comments attached to this ADR.

Peggy Cota pcota@gilbaneco.com 2015.06.30 16:57:06 -07'00' — 30-Jun-2015

Released by Peggy Cota, Project Chemist

Tom Beer Digitally signed by Tom Beer DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US Date: 2015.06.30 17:24:59 -07'00' — 30-Jun-2015

Released by Tom Beer

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JW-SB/SG07	GS	SB/SG07-15	E503117-09	NA	1/1	26-Mar-2015 3:15 PM	26-Mar-2015 3:16 PM	26-Mar-2015 3:20 PM	N
	NA	NA	JW-SB/SG07	GS	SB/SG07-25	E503131-01	NA	1/1	27-Mar-2015 8:34 AM	27-Mar-2015 8:35 AM	27-Mar-2015 8:43 AM	N
	NA	NA	JW-SB/SG07	GS	SB/SG07-35	E503131-02	NA	1/1	27-Mar-2015 8:58 AM	27-Mar-2015 9:00 AM	27-Mar-2015 9:03 AM	N
	NA	NA	JW-SB/SG07	GS	SB/SG07-5	E503117-06	NA	1/1	26-Mar-2015 1:10 PM	26-Mar-2015 1:15 PM	26-Mar-2015 1:17 PM	N
	NA	NA	JW-SB/SG07	GS	SB/SG07-5 Rep	E503117-07	NA	1/1	26-Mar-2015 1:48 PM	26-Mar-2015 1:50 PM	26-Mar-2015 1:54 PM	FD
	NA	NA	JW-SB/SG08	GS	SB/SG08-15	E503131-04	NA	1/1	27-Mar-2015 9:42 AM	27-Mar-2015 9:46 AM	27-Mar-2015 9:48 AM	N
	NA	NA	JW-SB/SG08	GS	SB/SG08-25	E503131-05	NA	1/1	27-Mar-2015 10:03 AM	27-Mar-2015 10:05 AM	27-Mar-2015 10:09 AM	N
	NA	NA	JW-SB/SG08	GS	SB/SG08-35	E503131-06	NA	1/1	27-Mar-2015 10:30 AM	27-Mar-2015 10:33 AM	27-Mar-2015 10:33 AM	N
	NA	NA	JW-SB/SG08	GS	SB/SG08-35	E503131-06	NA	1/10	27-Mar-2015 10:30 AM	27-Mar-2015 10:33 AM	27-Mar-2015 10:33 AM	N
	NA	NA	JW-SB/SG08	GS	SB/SG08-5	E503131-03	NA	1/1	27-Mar-2015 9:21 AM	27-Mar-2015 9:22 AM	27-Mar-2015 9:27 AM	N
	NA	NA	JW-SB/SG09	GS	SB/SG09-15	E503112-05	NA	1/1	25-Mar-2015 11:44 AM	25-Mar-2015 11:45 AM	25-Mar-2015 11:54 AM	N
	NA	NA	JW-SB/SG09	GS	SB/SG09-15 Rep	E503112-06	NA	1/1	25-Mar-2015 12:07 PM	25-Mar-2015 12:10 PM	25-Mar-2015 12:17 PM	FD
	NA	NA	JW-SB/SG09	GS	SB/SG09-25	E503112-07	NA	1/1	25-Mar-2015 12:30 PM	25-Mar-2015 12:32 PM	25-Mar-2015 12:40 PM	N
	NA	NA	JW-SB/SG09	GS	SB/SG09-25	E503112-07	NA	1/10	25-Mar-2015 12:30 PM	25-Mar-2015 12:32 PM	25-Mar-2015 12:40 PM	N
	NA	NA	JW-SB/SG09	GS	SB/SG09-35	E503112-08	NA	1/1	25-Mar-2015 1:42 PM	25-Mar-2015 1:44 PM	25-Mar-2015 1:50 PM	N
	NA	NA	JW-SB/SG09	GS	SB/SG09-5	E503112-04	NA	1/1	25-Mar-2015 11:18 AM	25-Mar-2015 11:20 AM	25-Mar-2015 11:28 AM	N
	NA	NA	JW-SB/SG10	GS	SB/SG10-15	E503131-09	NA	1/1	27-Mar-2015 12:00 PM	27-Mar-2015 12:02 PM	27-Mar-2015 12:08 PM	N
	NA	NA	JW-SB/SG10	GS	SB/SG10-25	E503131-10	NA	1/1	27-Mar-2015 1:03 PM	27-Mar-2015 1:05 PM	27-Mar-2015 1:11 PM	N
	NA	NA	JW-SB/SG10	GS	SB/SG10-35	E503131-11	NA	1/1	27-Mar-2015 1:25 PM	27-Mar-2015 1:27 PM	27-Mar-2015 1:31 PM	N
	NA	NA	JW-SB/SG10	GS	SB/SG10-35	E503131-11	NA	1/10	27-Mar-2015 1:25 PM	27-Mar-2015 1:27 PM	27-Mar-2015 1:31 PM	N
	NA	NA	JW-SB/SG10	GS	SB/SG10-5	E503131-07	NA	1/1	27-Mar-2015 11:14 AM	27-Mar-2015 11:16 AM	27-Mar-2015 11:22 AM	N

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JW-SB/SG10	GS	SB/SG10-5 Rep	E503131-08	NA	1/1	27-Mar-2015 11:36 AM	27-Mar-2015 11:38 AM	27-Mar-2015 11:43 AM	FD
	NA	NA	JW-SB/SG11	GS	SB/SG11-15	E503117-04	NA	1/1	26-Mar-2015 11:14 AM	26-Mar-2015 11:15 AM	26-Mar-2015 11:25 AM	N
	NA	NA	JW-SB/SG11	GS	SB/SG11-15	E503117-04	NA	1/10	26-Mar-2015 11:14 AM	26-Mar-2015 11:15 AM	26-Mar-2015 11:25 AM	N
	NA	NA	JW-SB/SG11	GS	SB/SG11-25	E503117-05	NA	1/1	26-Mar-2015 12:13 PM	26-Mar-2015 12:15 PM	26-Mar-2015 12:22 PM	N
	NA	NA	JW-SB/SG11	GS	SB/SG11-25	E503117-05	NA	1/25	26-Mar-2015 12:13 PM	26-Mar-2015 12:15 PM	26-Mar-2015 12:22 PM	N
	NA	NA	JW-SB/SG11	GS	SB/SG11-35	E503117-08	NA	1/1	26-Mar-2015 2:19 PM	26-Mar-2015 2:22 PM	26-Mar-2015 2:26 PM	N
	NA	NA	JW-SB/SG11	GS	SB/SG11-35	E503117-08	NA	1/10	26-Mar-2015 2:19 PM	26-Mar-2015 2:22 PM	26-Mar-2015 2:26 PM	N
	NA	NA	JW-SB/SG11	GS	SB/SG11-5	E503117-03	NA	1/1	26-Mar-2015 10:47 AM	26-Mar-2015 10:49 AM	26-Mar-2015 10:57 AM	N
	NA	NA	JW-SB/SG12	GS	SB/SG12-15	E503131-13	NA	1/1	27-Mar-2015 2:42 PM	27-Mar-2015 2:45 PM	27-Mar-2015 2:48 PM	N
	NA	NA	JW-SB/SG12	GS	SB/SG12-25	E503131-14	NA	1/1	27-Mar-2015 3:06 PM	27-Mar-2015 3:08 PM	27-Mar-2015 3:12 PM	N
	NA	NA	JW-SB/SG12	GS	SB/SG12-35	E503140-01	NA	1/1	30-Mar-2015 8:35 AM	30-Mar-2015 8:37 AM	30-Mar-2015 8:44 AM	N
	NA	NA	JW-SB/SG12	GS	SB/SG12-5	E503131-12	NA	1/1	27-Mar-2015 2:16 PM	27-Mar-2015 2:18 PM	27-Mar-2015 2:23 PM	N
	NA	NA	JW-SB/SG13	GS	SB/SG13-15	E503140-03	NA	1/1	30-Mar-2015 9:25 AM	30-Mar-2015 9:30 AM	30-Mar-2015 9:32 AM	N
	NA	NA	JW-SB/SG13	GS	SB/SG13-15	E503140-03	NA	1/10	30-Mar-2015 9:25 AM	30-Mar-2015 9:30 AM	30-Mar-2015 9:32 AM	N
	NA	NA	JW-SB/SG13	GS	SB/SG13-25	E503140-04	NA	1/1	30-Mar-2015 10:12 AM	30-Mar-2015 10:15 AM	30-Mar-2015 10:19 AM	N
	NA	NA	JW-SB/SG13	GS	SB/SG13-25	E503140-04	NA	1/25	30-Mar-2015 10:12 AM	30-Mar-2015 10:15 AM	30-Mar-2015 10:19 AM	N
	NA	NA	JW-SB/SG13	GS	SB/SG13-35	E503140-05	NA	1/1	30-Mar-2015 11:25 AM	30-Mar-2015 11:26 AM	30-Mar-2015 11:32 AM	N
	NA	NA	JW-SB/SG13	GS	SB/SG13-35	E503140-05	NA	1/20	30-Mar-2015 11:25 AM	30-Mar-2015 11:26 AM	30-Mar-2015 11:32 AM	N
	NA	NA	JW-SB/SG13	GS	SB/SG13-5	E503140-02	NA	1/1	30-Mar-2015 9:00 AM	30-Mar-2015 9:03 AM	30-Mar-2015 9:07 AM	N
	NA	NA	JW-SB/SG14	GS	SB/SG14-15	E503140-08	NA	1/1	30-Mar-2015 1:08 PM	30-Mar-2015 1:10 PM	30-Mar-2015 1:15 PM	N
	NA	NA	JW-SB/SG14	GS	SB/SG14-25	E503140-10	NA	1/1	30-Mar-2015 2:40 PM	30-Mar-2015 2:40 PM	30-Mar-2015 2:46 PM	N
	NA	NA	JW-SB/SG14	GS	SB/SG14-35	E503140-09	NA	1/1	30-Mar-2015 1:35 PM	30-Mar-2015 1:40 PM	30-Mar-2015 1:43 PM	N

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JW-SB/SG14	GS	SB/SG14-35	E503140-09	NA	1/50	30-Mar-2015 1:35 PM	30-Mar-2015 1:40 PM	30-Mar-2015 1:43 PM	N
	NA	NA	JW-SB/SG14	GS	SB/SG14-5	E503140-06	NA	1/1	30-Mar-2015 12:15 PM	30-Mar-2015 12:15 PM	30-Mar-2015 12:21 PM	N
	NA	NA	JW-SB/SG14	GS	SB/SG14-5 Rep	E503140-07	NA	1/1	30-Mar-2015 12:38 PM	30-Mar-2015 12:40 PM	30-Mar-2015 12:44 PM	FD
	NA	NA	JW-SB/SG15	GS	SB/SG15-15	E503146-01	NA	1/1	31-Mar-2015 8:30 AM	31-Mar-2015 8:32 AM	31-Mar-2015 8:38 AM	N
	NA	NA	JW-SB/SG15	GS	SB/SG15-15	E503146-01	NA	1/10	31-Mar-2015 8:30 AM	31-Mar-2015 8:32 AM	31-Mar-2015 8:38 AM	N
	NA	NA	JW-SB/SG15	GS	SB/SG15-25	E503146-02	NA	1/1	31-Mar-2015 9:14 AM	31-Mar-2015 9:15 AM	31-Mar-2015 9:19 AM	N
	NA	NA	JW-SB/SG15	GS	SB/SG15-25	E503146-02	NA	1/10	31-Mar-2015 9:14 AM	31-Mar-2015 9:15 AM	31-Mar-2015 9:19 AM	N
	NA	NA	JW-SB/SG15	GS	SB/SG15-35	E503146-03	NA	1/1	31-Mar-2015 9:58 AM	31-Mar-2015 10:00 AM	31-Mar-2015 10:02 AM	N
	NA	NA	JW-SB/SG15	GS	SB/SG15-35	E503146-03	NA	1/25	31-Mar-2015 9:58 AM	31-Mar-2015 10:00 AM	31-Mar-2015 10:02 AM	N
	NA	NA	JW-SB/SG15	GS	SB/SG15-5	E503140-11	NA	1/1	30-Mar-2015 3:12 PM	30-Mar-2015 3:15 PM	30-Mar-2015 3:17 PM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-15, 1PV	E503100-06	NA	1/1	23-Mar-2015 2:00 PM	23-Mar-2015 2:03 PM	23-Mar-2015 2:06 PM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-25, 10PV	E503100-07	NA	1/1	23-Mar-2015 3:18 PM	23-Mar-2015 3:20 PM	23-Mar-2015 3:26 PM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-25, 10PV	E503100-07	NA	1/10	23-Mar-2015 3:18 PM	23-Mar-2015 3:20 PM	23-Mar-2015 3:26 PM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-25, 1PV	E503100-04	NA	1/1	23-Mar-2015 11:57 AM	23-Mar-2015 12:00 PM	23-Mar-2015 12:04 PM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-25, 1PV	E503100-04	NA	1/10	23-Mar-2015 11:57 AM	23-Mar-2015 12:00 PM	23-Mar-2015 12:04 PM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-25, 3PV	E503100-05	NA	1/1	23-Mar-2015 1:08 PM	23-Mar-2015 1:10 PM	23-Mar-2015 1:16 PM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-25, 3PV	E503100-05	NA	1/10	23-Mar-2015 1:08 PM	23-Mar-2015 1:10 PM	23-Mar-2015 1:16 PM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-35	E503112-01	NA	1/1	25-Mar-2015 9:40 AM	25-Mar-2015 9:42 AM	25-Mar-2015 9:58 AM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-35	E503112-01	NA	1/25	25-Mar-2015 9:40 AM	25-Mar-2015 9:42 AM	25-Mar-2015 9:58 AM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-5, 10PV	E503100-03	NA	1/1	23-Mar-2015 11:21 AM	23-Mar-2015 11:23 AM	23-Mar-2015 11:27 AM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-5, 1PV	E503100-01	NA	1/1	23-Mar-2015 9:52 AM	23-Mar-2015 9:55 AM	23-Mar-2015 9:58 AM	N
	NA	NA	JW-SB/SG16	GS	SB/SG16-5, 3PV	E503100-02	NA	1/1	23-Mar-2015 10:28 AM	23-Mar-2015 10:30 AM	23-Mar-2015 10:34 AM	N

AUTOMATED DATA REVIEW SUMMARY for J1630072

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JW-SB/SG17	GS	SB/SG17-15	E503104-08	NA	1/1	24-Mar-2015 1:51 PM	24-Mar-2015 1:52 PM	24-Mar-2015 2:07 PM	N
	NA	NA	JW-SB/SG17	GS	SB/SG17-15	E503104-08	NA	1/20	24-Mar-2015 1:51 PM	24-Mar-2015 1:52 PM	25-Mar-2015 8:50 AM	N
	NA	NA	JW-SB/SG17	GS	SB/SG17-15 Rep	E503104-09	NA	1/1	24-Mar-2015 2:24 PM	24-Mar-2015 2:30 PM	24-Mar-2015 2:32 PM	FD
	NA	NA	JW-SB/SG17	GS	SB/SG17-25	E503104-10	NA	1/1	24-Mar-2015 2:50 PM	24-Mar-2015 2:52 PM	24-Mar-2015 2:56 PM	N
	NA	NA	JW-SB/SG17	GS	SB/SG17-25	E503104-10	NA	1/10	24-Mar-2015 2:50 PM	24-Mar-2015 2:52 PM	25-Mar-2015 2:56 PM	N
	NA	NA	JW-SB/SG17	GS	SB/SG17-35	E503104-11	NA	1/1	24-Mar-2015 3:13 PM	24-Mar-2015 3:15 PM	24-Mar-2015 3:18 PM	N
	NA	NA	JW-SB/SG17	GS	SB/SG17-35	E503104-11	NA	1/10	24-Mar-2015 3:13 PM	24-Mar-2015 3:15 PM	24-Mar-2015 3:18 PM	N
	NA	NA	JW-SB/SG17	GS	SB/SG17-5	E503104-07	NA	1/1	24-Mar-2015 1:33 PM	24-Mar-2015 1:35 PM	24-Mar-2015 1:40 PM	N
	NA	NA	JW-SB/SG18	GS	SB/SG18-15, 10PV	E503104-05	NA	1/1	24-Mar-2015 12:00 PM	24-Mar-2015 12:02 PM	24-Mar-2015 12:10 PM	N
	NA	NA	JW-SB/SG18	GS	SB/SG18-15, 1PV	E503104-01	NA	1/1	24-Mar-2015 9:42 AM	24-Mar-2015 9:44 AM	24-Mar-2015 9:49 AM	N
	NA	NA	JW-SB/SG18	GS	SB/SG18-15, 3PV	E503104-02	NA	1/1	24-Mar-2015 10:15 AM	24-Mar-2015 10:18 AM	24-Mar-2015 10:22 AM	N
	NA	NA	JW-SB/SG18	GS	SB/SG18-25	E503112-03	NA	1/1	25-Mar-2015 10:37 AM	25-Mar-2015 10:38 AM	25-Mar-2015 10:48 AM	N
	NA	NA	JW-SB/SG18	GS	SB/SG18-35, 10PV	E503104-06	NA	1/1	24-Mar-2015 12:26 PM	24-Mar-2015 12:30 PM	24-Mar-2015 12:34 PM	N
	NA	NA	JW-SB/SG18	GS	SB/SG18-35, 1PV	E503104-03	NA	1/1	24-Mar-2015 10:52 AM	24-Mar-2015 10:55 AM	24-Mar-2015 11:04 AM	N
	NA	NA	JW-SB/SG18	GS	SB/SG18-35, 3PV	E503104-04	NA	1/1	24-Mar-2015 11:30 AM	24-Mar-2015 11:33 AM	24-Mar-2015 11:35 AM	N
	NA	NA	JW-SB/SG18	GS	SB/SG18-5	E503112-02	NA	1/1	25-Mar-2015 10:13 AM	25-Mar-2015 10:15 AM	25-Mar-2015 10:24 AM	N
	NA	NA	JW-SB/SG19	GS	SB/SG19-15	E503112-10	NA	1/1	25-Mar-2015 2:35 PM	25-Mar-2015 2:37 PM	25-Mar-2015 2:45 PM	N
	NA	NA	JW-SB/SG19	GS	SB/SG19-15	E503112-10	NA	1/10	25-Mar-2015 2:35 PM	25-Mar-2015 2:37 PM	25-Mar-2015 2:45 PM	N
	NA	NA	JW-SB/SG19	GS	SB/SG19-25	E503117-02	NA	1/1	26-Mar-2015 9:35 AM	26-Mar-2015 9:40 AM	26-Mar-2015 9:42 AM	N
	NA	NA	JW-SB/SG19	GS	SB/SG19-25	E503117-02	NA	1/50	26-Mar-2015 9:35 AM	26-Mar-2015 9:40 AM	26-Mar-2015 9:42 AM	N
	NA	NA	JW-SB/SG19	GS	SB/SG19-35	E503117-01	NA	1/1	26-Mar-2015 8:40 AM	26-Mar-2015 8:42 AM	26-Mar-2015 8:51 AM	N
	NA	NA	JW-SB/SG19	GS	SB/SG19-35	E503117-01	NA	1/10	26-Mar-2015 8:40 AM	26-Mar-2015 8:42 AM	26-Mar-2015 8:51 AM	N

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JW-SB/SG19	GS	SB/SG19-5	E503112-09	NA	1/1	25-Mar-2015 2:16 PM	25-Mar-2015 2:18 PM	25-Mar-2015 2:23 PM	N
	NA	NA	JW-SB/SG20	GS	SB/SG20-15	E504002-12	NA	1/1	01-Apr-2015 2:38 PM	01-Apr-2015 2:40 PM	01-Apr-2015 2:44 PM	N
	NA	NA	JW-SB/SG20	GS	SB/SG20-25	E504011-05	NA	1/1	02-Apr-2015 10:06 AM	02-Apr-2015 10:08 AM	02-Apr-2015 10:09 AM	N
	NA	NA	JW-SB/SG20	GS	SB/SG20-35	E504002-13	NA	1/1	01-Apr-2015 3:03 PM	01-Apr-2015 3:05 PM	01-Apr-2015 3:10 PM	N
	NA	NA	JW-SB/SG20	GS	SB/SG20-5	E504002-11	NA	1/1	01-Apr-2015 1:05 PM	01-Apr-2015 1:07 PM	01-Apr-2015 1:15 PM	N
	NA	NA	JW-SB/SG21	GS	SB/SG21-15	E504011-04	NA	1/1	02-Apr-2015 9:33 AM	02-Apr-2015 9:35 AM	02-Apr-2015 9:37 AM	N
	NA	NA	JW-SB/SG21	GS	SB/SG21-25	E504011-06	NA	1/1	02-Apr-2015 10:29 AM	02-Apr-2015 10:30 AM	02-Apr-2015 10:33 AM	N
	NA	NA	JW-SB/SG21	GS	SB/SG21-35	E504011-01	NA	1/1	02-Apr-2015 8:23 AM	02-Apr-2015 8:25 AM	02-Apr-2015 8:29 AM	N
	NA	NA	JW-SB/SG21	GS	SB/SG21-5	E504011-02	NA	1/1	02-Apr-2015 8:47 AM	02-Apr-2015 8:48 AM	02-Apr-2015 8:51 AM	N
	NA	NA	JW-SB/SG21	GS	SB/SG21-5 Rep	E504011-03	NA	1/1	02-Apr-2015 9:13 AM	02-Apr-2015 9:15 AM	02-Apr-2015 9:17 AM	FD
	NA	NA	JW-SB/SG22	GS	SB/SG22-25	E504002-08	NA	1/1	01-Apr-2015 11:45 AM	01-Apr-2015 11:45 AM	01-Apr-2015 11:46 AM	N
	NA	NA	JW-SB/SG22	GS	SB/SG22-25 Rep	E504002-10	NA	1/1	01-Apr-2015 12:34 PM	01-Apr-2015 12:36 PM	01-Apr-2015 12:47 PM	FD
	NA	NA	JW-SB/SG22	GS	SB/SG22-35	E504002-09	NA	1/1	01-Apr-2015 12:06 PM	01-Apr-2015 12:08 PM	01-Apr-2015 12:14 PM	N
	NA	NA	JW-SB/SG22	GS	SB/SG22-5	E504002-07	NA	1/1	01-Apr-2015 11:12 AM	01-Apr-2015 11:15 AM	01-Apr-2015 11:19 AM	N
	NA	NA	JW-SB/SG23	GS	SB/SG23-15	E504002-04	NA	1/1	01-Apr-2015 9:52 AM	01-Apr-2015 9:55 AM	01-Apr-2015 9:57 AM	N
	NA	NA	JW-SB/SG23	GS	SB/SG23-25	E504002-05	NA	1/1	01-Apr-2015 10:17 AM	01-Apr-2015 10:18 AM	01-Apr-2015 10:22 AM	N
	NA	NA	JW-SB/SG23	GS	SB/SG23-35	E504002-06	NA	1/1	01-Apr-2015 10:45 AM	01-Apr-2015 10:48 AM	01-Apr-2015 10:52 AM	N
	NA	NA	JW-SB/SG23	GS	SB/SG23-5	E504002-03	NA	1/1	01-Apr-2015 9:22 AM	01-Apr-2015 9:25 AM	01-Apr-2015 9:28 AM	N
	NA	NA	JW-SB/SG24	GS	SB/SG24-15	E503146-14	NA	1/1	31-Mar-2015 3:39 PM	31-Mar-2015 3:40 PM	31-Mar-2015 3:44 PM	N
	NA	NA	JW-SB/SG24	GS	SB/SG24-25	E504002-01	NA	1/1	01-Apr-2015 8:35 AM	01-Apr-2015 8:37 AM	01-Apr-2015 8:43 AM	N
	NA	NA	JW-SB/SG24	GS	SB/SG24-35	E504002-02	NA	1/1	01-Apr-2015 8:59 AM	01-Apr-2015 9:00 AM	01-Apr-2015 9:06 AM	N
	NA	NA	JW-SB/SG24	GS	SB/SG24-5	E503146-13	NA	1/1	31-Mar-2015 3:21 PM	31-Mar-2015 3:23 PM	31-Mar-2015 3:25 PM	N

AUTOMATED DATA REVIEW SUMMARY for J1630072

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JW-SB/SG25	GS	SB/SG25-15	E503146-10	NA	1/1	31-Mar-2015 2:16 PM	31-Mar-2015 2:18 PM	31-Mar-2015 2:22 PM	N
	NA	NA	JW-SB/SG25	GS	SB/SG25-25	E503146-11	NA	1/1	31-Mar-2015 2:35 PM	31-Mar-2015 2:37 PM	31-Mar-2015 2:41 PM	N
	NA	NA	JW-SB/SG25	GS	SB/SG25-35	E503146-12	NA	1/1	31-Mar-2015 2:57 PM	31-Mar-2015 3:02 PM	31-Mar-2015 3:05 PM	N
	NA	NA	JW-SB/SG25	GS	SB/SG25-5	E503146-09	NA	1/1	31-Mar-2015 1:52 PM	31-Mar-2015 1:54 PM	31-Mar-2015 2:00 PM	N
	NA	NA	JW-SB/SG26	GS	SB/SG26-15	E503146-05	NA	1/1	31-Mar-2015 11:57 AM	31-Mar-2015 11:58 AM	31-Mar-2015 12:02 PM	N
	NA	NA	JW-SB/SG26	GS	SB/SG26-25	E503146-06	NA	1/1	31-Mar-2015 12:17 PM	31-Mar-2015 12:20 PM	31-Mar-2015 12:23 PM	N
	NA	NA	JW-SB/SG26	GS	SB/SG26-35	E503146-07	NA	1/1	31-Mar-2015 12:39 PM	31-Mar-2015 12:40 PM	31-Mar-2015 12:46 PM	N
	NA	NA	JW-SB/SG26	GS	SB/SG26-35 Rep	E503146-08	NA	1/1	31-Mar-2015 1:00 PM	31-Mar-2015 1:02 PM	31-Mar-2015 1:06 PM	FD
	NA	NA	JW-SB/SG26	GS	SB/SG26-5	E503146-04	NA	1/1	31-Mar-2015 11:35 AM	31-Mar-2015 11:37 AM	31-Mar-2015 11:40 AM	N
	NA	NA	LABQC	GQ	LABQC	EC52303-BS1	NA	1/1	23-Mar-2015 9:09 AM	23-Mar-2015 9:09 AM	23-Mar-2015 4:09 PM	BS
	NA	NA	LABQC	GQ	LABQC	EC52402-BS1	NA	1/1	24-Mar-2015 7:15 AM	24-Mar-2015 7:15 AM	24-Mar-2015 4:26 PM	BS
	NA	NA	LABQC	GQ	LABQC	EC52502-BS1	NA	1/1	25-Mar-2015 7:13 AM	25-Mar-2015 7:13 AM	25-Mar-2015 3:36 PM	BS
	NA	NA	LABQC	GQ	LABQC	EC52601-BS1	NA	1/1	26-Mar-2015 7:17 AM	26-Mar-2015 7:17 AM	26-Mar-2015 4:40 PM	BS
	NA	NA	LABQC	GQ	LABQC	EC52703-BS1	NA	1/1	27-Mar-2015 7:11 AM	27-Mar-2015 7:11 AM	27-Mar-2015 3:39 PM	BS
	NA	NA	LABQC	GQ	LABQC	EC53003-BS1	NA	1/1	30-Mar-2015 7:45 AM	30-Mar-2015 7:45 AM	30-Mar-2015 3:38 PM	BS
	NA	NA	LABQC	GQ	LABQC	EC53103-BS1	NA	1/1	31-Mar-2015 7:14 AM	31-Mar-2015 7:14 AM	31-Mar-2015 4:09 PM	BS
	NA	NA	LABQC	GQ	LABQC	ED50102-BS1	NA	1/1	01-Apr-2015 7:47 AM	01-Apr-2015 7:47 AM	01-Apr-2015 3:30 PM	BS
	NA	NA	LABQC	GQ	LABQC	ED50202-BS1	NA	1/1	02-Apr-2015 7:37 AM	02-Apr-2015 7:37 AM	02-Apr-2015 10:56 AM	BS
	NA	NA	LABQC	GQ	LABQC	ED50202-BLK1	NA	1/1	02-Apr-2015 7:37 AM	02-Apr-2015 7:37 AM	02-Apr-2015 7:45 AM	LB
	NA	NA	LABQC	GQ	LABQC	ED50102-BLK1	NA	1/1	01-Apr-2015 7:47 AM	01-Apr-2015 7:47 AM	01-Apr-2015 7:51 AM	LB
	NA	NA	LABQC	GQ	LABQC	EC53103-BLK1	NA	1/1	31-Mar-2015 7:14 AM	31-Mar-2015 7:14 AM	31-Mar-2015 7:17 AM	LB
	NA	NA	LABQC	GQ	LABQC	EC53003-BLK1	NA	1/1	30-Mar-2015 7:45 AM	30-Mar-2015 7:45 AM	30-Mar-2015 7:50 AM	LB

AUTOMATED DATA REVIEW SUMMARY for J1630072

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	LABQC	GQ	LABQC	EC52703-BLK1	NA	1/1	27-Mar-2015 7:11 AM	27-Mar-2015 7:11 AM	27-Mar-2015 8:07 AM	LB
	NA	NA	LABQC	GQ	LABQC	EC52601-BLK1	NA	1/1	26-Mar-2015 7:17 AM	26-Mar-2015 7:17 AM	26-Mar-2015 8:07 AM	LB
	NA	NA	LABQC	GQ	LABQC	EC52502-BLK1	NA	1/1	25-Mar-2015 7:13 AM	25-Mar-2015 7:13 AM	25-Mar-2015 7:25 AM	LB
	NA	NA	LABQC	GQ	LABQC	EC52502-BLK1	NA	1/1	25-Mar-2015 7:13 AM	25-Mar-2015 7:13 AM	25-Mar-2015 2:58 PM	LB
	NA	NA	LABQC	GQ	LABQC	EC52402-BLK1	NA	1/1	24-Mar-2015 7:15 AM	24-Mar-2015 7:15 AM	24-Mar-2015 8:09 AM	LB
	NA	NA	LABQC	GQ	LABQC	EC52303-BLK1	NA	1/1	23-Mar-2015 9:09 AM	23-Mar-2015 9:09 AM	23-Mar-2015 9:16 AM	LB

AUTOMATED DATA REVIEW SUMMARY for J1630072

Field Batch Report --No Records Found--

QC Outlier Report --No Records Found--

QC Outlier Review - Manual

Test/Prep	QC Element	Sample ID | Lab ID	Batch#	Analyte(s)	Result (Units)	Qualifier	Limits	Reason	Comment
TO -15	Sample Condition	SB/SG18-15 10PV | E503104-05	EC52402	All	moisture in tubing	J- / UJ-	no moisture	V	
TO -15	Quantitation	SB/SG16-15 | 1PV E503100-06	EC52303	Freon 113*	result>curve	J	result<curve	E	
TO -15	CCV	50ppbv VOCs 3/25/2015 15:36	EC52502	1,1,1,2TCA**	31.7 %D	None	<30%D	C11	sample results ND - no flags
TO-15	Field duplicate	SB/SG17-15 Rep / E503104-09	EC52402	Tetrachloroethene	41.7 RPD	J	<35 RPD	D5	
TO-15	Field duplicate	SB/SG22-25 Rep / E504002-10	EC50102	Vinyl chloride	28 ug/m3	J	<13 ug/m3	D5	
TO-15	Field duplicate	SB/SG26-35 Rep / E503146-08	EC53103	Trichloroethene	57 ug/m3	J	<27 ug/m3	D5	

*1,1,2-Trichloro-1,2,2-trifluoroethane (1,1,2-Trichlorotrifluoroethane) **1,1,1,2 Tetrachloroethane

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG16-15, 1PV	N	1,1,2-Trichloro-1,2,2-trifluoroethane	77.0	77000	77000 J	ug/m3	E
TO15/NONE	GS	SB/SG17-15	N	Tetrachloroethene (PCE)	690	29000	29000 J	ug/m3	D5
TO15/NONE	GS	SB/SG17-15 Rep	FD	Tetrachloroethene (PCE)	34.0	19000	19000 J	ug/m3	D5
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,1,1,2-Tetrachloroethane	70.0	70.0 U	70.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,1,1-Trichloroethane	28.0	28.0 U	28.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,1,2,2-Tetrachloroethane	70.0	70.0 U	70.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,1,2-Trichloro-1,2,2-trifluoroethane	77.0	77.0 U	77.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,1,2-Trichloroethane	55.0	55.0 U	55.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,1-Dichloroethane	41.0	41.0 U	41.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,1-Dichloroethene	20.0	20.0 U	20.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,1-Difluoroethane	27.0	27.0 U	27.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,2,4-Trichlorobenzene	75.0	75.0 U	75.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,2,4-Trimethylbenzene	50.0	50.0 U	50.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,2-Dichloroethane	21.0	21.0 U	21.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,3,5-Trimethylbenzene	50.0	50.0 U	50.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,4-Dichlorobenzene	61.0	61.0 U	61.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	1,4-Dioxane (p-Dioxane)	36.0	36.0 U	36.0 UJ	ug/m3	V

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG18-15, 10PV	N	Benzene	16.0	43.0	43.0 J	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Bromodichloromethane	68.0	68.0 U	68.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Bromomethane	39.0	39.0 U	39.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Carbon Tetrachloride	13.0	13.0 U	13.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Chloroethane	27.0	27.0 U	27.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Chloroform	25.0	25.0 U	25.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Chloromethane	21.0	21.0 U	21.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	cis-1,2-Dichloroethylene	40.0	40.0 U	40.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Dichlorodifluoromethane	50.0	50.0 U	50.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Ethylbenzene	22.0	22.0 U	22.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Isopropylbenzene (Cumene)	50.0	50.0 U	50.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	m,p-Xylene	44.0	44.0 U	44.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Methylene Chloride	35.0	35.0 U	35.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Naphthalene	27.0	27.0 U	27.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	n-Butylbenzene	28.0	28.0 U	28.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	n-Propylbenzene	50.0	50.0 U	50.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	o-Xylene	22.0	22.0 U	22.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	p-Cymene (p-Isopropyltoluene)	28.0	28.0 U	28.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	sec-Butylbenzene	28.0	28.0 U	28.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	tert-Butylbenzene	56.0	56.0 U	56.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Tetrachloroethene (PCE)	34.0	1600	1600 J	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Toluene	38.0	38.0 U	38.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	trans-1,2-Dichloroethene	40.0	40.0 U	40.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Trichloroethene (TCE)	27.0	280	280 J	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Trichlorofluoromethane	56.0	56.0 U	56.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Vinyl Chloride	13.0	13.0 U	13.0 UJ	ug/m3	V
TO15/NONE	GS	SB/SG22-25	N	Vinyl Chloride	13.0	75.0	75.0 J	ug/m3	D5

AUTOMATED DATA REVIEW SUMMARY for J1630072

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG22-25 Rep	FD	Vinyl Chloride	13.0	47.0	47.0 J	ug/m3	D5
TO15/NONE	GS	SB/SG26-35	N	Trichloroethene (TCE)	27.0	110	110 J	ug/m3	D5
TO15/NONE	GS	SB/SG26-35 Rep	FD	Trichloroethene (TCE)	27.0	53.0	53.0 J	ug/m3	D5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG07-15	N	Tetrachloroethene (PCE)	34.0	36.0	36.0	ug/m3	
TO15/NONE	GS	SB/SG07-15	N	Trichloroethene (TCE)	27.0	61.0	61.0	ug/m3	
TO15/NONE	GS	SB/SG07-25	N	1,1-Dichloroethene	20.0	98.0	98.0	ug/m3	
TO15/NONE	GS	SB/SG07-25	N	Trichloroethene (TCE)	27.0	33.0	33.0	ug/m3	
TO15/NONE	GS	SB/SG07-35	N	1,1-Dichloroethene	20.0	71.0	71.0	ug/m3	
TO15/NONE	GS	SB/SG07-35	N	cis-1,2-Dichloroethylene	40.0	110	110	ug/m3	
TO15/NONE	GS	SB/SG07-35	N	Trichloroethene (TCE)	27.0	1400	1400	ug/m3	
TO15/NONE	GS	SB/SG07-5	N	Tetrachloroethene (PCE)	34.0	68.0	68.0	ug/m3	
TO15/NONE	GS	SB/SG07-5	N	Trichloroethene (TCE)	27.0	180	180	ug/m3	
TO15/NONE	GS	SB/SG07-5 Rep	FD	Tetrachloroethene (PCE)	34.0	39.0	39.0	ug/m3	
TO15/NONE	GS	SB/SG07-5 Rep	FD	Trichloroethene (TCE)	27.0	240	240	ug/m3	
TO15/NONE	GS	SB/SG08-15	N	Tetrachloroethene (PCE)	34.0	1700	1700	ug/m3	
TO15/NONE	GS	SB/SG08-15	N	1,1,1-Trichloroethane	28.0	32.0	32.0	ug/m3	
TO15/NONE	GS	SB/SG08-15	N	Trichloroethene (TCE)	27.0	350	350	ug/m3	
TO15/NONE	GS	SB/SG08-25	N	1,1-Dichloroethene	20.0	33.0	33.0	ug/m3	
TO15/NONE	GS	SB/SG08-25	N	Tetrachloroethene (PCE)	34.0	550	550	ug/m3	
TO15/NONE	GS	SB/SG08-25	N	Trichloroethene (TCE)	27.0	1200	1200	ug/m3	
TO15/NONE	GS	SB/SG08-35	N	1,1-Dichloroethane	41.0	73.0	73.0	ug/m3	
TO15/NONE	GS	SB/SG08-35	N	1,1-Dichloroethene	20.0	190	190	ug/m3	
TO15/NONE	GS	SB/SG08-35	N	cis-1,2-Dichloroethylene	40.0	3400	3400	ug/m3	
TO15/NONE	GS	SB/SG08-35	N	trans-1,2-Dichloroethene	40.0	370	370	ug/m3	
TO15/NONE	GS	SB/SG08-35	N	Tetrachloroethene (PCE)	34.0	580	580	ug/m3	
TO15/NONE	GS	SB/SG08-35	N	Trichloroethene (TCE)	270	23000	23000	ug/m3	
TO15/NONE	GS	SB/SG08-5	N	Tetrachloroethene (PCE)	34.0	810	810	ug/m3	
TO15/NONE	GS	SB/SG08-5	N	Trichloroethene (TCE)	27.0	140	140	ug/m3	
TO15/NONE	GS	SB/SG09-15	N	Toluene	38.0	200	200	ug/m3	
TO15/NONE	GS	SB/SG09-15	N	Tetrachloroethene (PCE)	34.0	1000	1000	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG09-15	N	Trichloroethene (TCE)	27.0	3100	3100	ug/m3	
TO15/NONE	GS	SB/SG09-15 Rep	FD	Toluene	38.0	220	220	ug/m3	
TO15/NONE	GS	SB/SG09-15 Rep	FD	Tetrachloroethene (PCE)	34.0	1000	1000	ug/m3	
TO15/NONE	GS	SB/SG09-15 Rep	FD	Trichloroethene (TCE)	27.0	2800	2800	ug/m3	
TO15/NONE	GS	SB/SG09-25	N	Benzene	16.0	31.0	31.0	ug/m3	
TO15/NONE	GS	SB/SG09-25	N	Toluene	38.0	290	290	ug/m3	
TO15/NONE	GS	SB/SG09-25	N	1,1-Dichloroethane	41.0	140	140	ug/m3	
TO15/NONE	GS	SB/SG09-25	N	1,1-Dichloroethene	20.0	450	450	ug/m3	
TO15/NONE	GS	SB/SG09-25	N	cis-1,2-Dichloroethylene	40.0	340	340	ug/m3	
TO15/NONE	GS	SB/SG09-25	N	trans-1,2-Dichloroethene	40.0	150	150	ug/m3	
TO15/NONE	GS	SB/SG09-25	N	Tetrachloroethene (PCE)	34.0	2000	2000	ug/m3	
TO15/NONE	GS	SB/SG09-25	N	Trichloroethene (TCE)	270	63000	63000	ug/m3	
TO15/NONE	GS	SB/SG09-35	N	Toluene	38.0	310	310	ug/m3	
TO15/NONE	GS	SB/SG09-35	N	1,1-Dichloroethene	20.0	24.0	24.0	ug/m3	
TO15/NONE	GS	SB/SG09-35	N	cis-1,2-Dichloroethylene	40.0	180	180	ug/m3	
TO15/NONE	GS	SB/SG09-35	N	Tetrachloroethene (PCE)	34.0	180	180	ug/m3	
TO15/NONE	GS	SB/SG09-35	N	Trichloroethene (TCE)	27.0	1400	1400	ug/m3	
TO15/NONE	GS	SB/SG09-5	N	Toluene	38.0	190	190	ug/m3	
TO15/NONE	GS	SB/SG09-5	N	Tetrachloroethene (PCE)	34.0	360	360	ug/m3	
TO15/NONE	GS	SB/SG09-5	N	Trichloroethene (TCE)	27.0	45.0	45.0	ug/m3	
TO15/NONE	GS	SB/SG10-15	N	Benzene	16.0	37.0	37.0	ug/m3	
TO15/NONE	GS	SB/SG10-15	N	Toluene	38.0	92.0	92.0	ug/m3	
TO15/NONE	GS	SB/SG10-15	N	1,1-Dichloroethene	20.0	27.0	27.0	ug/m3	
TO15/NONE	GS	SB/SG10-15	N	Tetrachloroethene (PCE)	34.0	3600	3600	ug/m3	
TO15/NONE	GS	SB/SG10-15	N	1,1,1-Trichloroethane	28.0	40.0	40.0	ug/m3	
TO15/NONE	GS	SB/SG10-15	N	Trichloroethene (TCE)	27.0	3700	3700	ug/m3	
TO15/NONE	GS	SB/SG10-25	N	Benzene	16.0	24.0	24.0	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG10-25	N	Toluene	38.0	76.0	76.0	ug/m3	
TO15/NONE	GS	SB/SG10-25	N	1,1-Dichloroethene	20.0	110	110	ug/m3	
TO15/NONE	GS	SB/SG10-25	N	cis-1,2-Dichloroethylene	40.0	63.0	63.0	ug/m3	
TO15/NONE	GS	SB/SG10-25	N	Tetrachloroethene (PCE)	34.0	1600	1600	ug/m3	
TO15/NONE	GS	SB/SG10-25	N	Trichloroethene (TCE)	27.0	6400	6400	ug/m3	
TO15/NONE	GS	SB/SG10-35	N	Benzene	16.0	20.0	20.0	ug/m3	
TO15/NONE	GS	SB/SG10-35	N	Toluene	38.0	81.0	81.0	ug/m3	
TO15/NONE	GS	SB/SG10-35	N	1,1-Dichloroethane	41.0	110	110	ug/m3	
TO15/NONE	GS	SB/SG10-35	N	1,1-Dichloroethene	20.0	270	270	ug/m3	
TO15/NONE	GS	SB/SG10-35	N	cis-1,2-Dichloroethylene	40.0	5800	5800	ug/m3	
TO15/NONE	GS	SB/SG10-35	N	trans-1,2-Dichloroethene	40.0	500	500	ug/m3	
TO15/NONE	GS	SB/SG10-35	N	Tetrachloroethene (PCE)	34.0	3500	3500	ug/m3	
TO15/NONE	GS	SB/SG10-35	N	Trichloroethene (TCE)	270	42000	42000	ug/m3	
TO15/NONE	GS	SB/SG10-5	N	Tetrachloroethene (PCE)	34.0	2900	2900	ug/m3	
TO15/NONE	GS	SB/SG10-5	N	1,1,1-Trichloroethane	28.0	50.0	50.0	ug/m3	
TO15/NONE	GS	SB/SG10-5	N	Trichloroethene (TCE)	27.0	290	290	ug/m3	
TO15/NONE	GS	SB/SG10-5 Rep	FD	Tetrachloroethene (PCE)	34.0	2800	2800	ug/m3	
TO15/NONE	GS	SB/SG10-5 Rep	FD	1,1,1-Trichloroethane	28.0	38.0	38.0	ug/m3	
TO15/NONE	GS	SB/SG10-5 Rep	FD	Trichloroethene (TCE)	27.0	250	250	ug/m3	
TO15/NONE	GS	SB/SG11-15	N	Benzene	16.0	43.0	43.0	ug/m3	
TO15/NONE	GS	SB/SG11-15	N	1,1-Dichloroethene	20.0	180	180	ug/m3	
TO15/NONE	GS	SB/SG11-15	N	Tetrachloroethene (PCE)	34.0	4700	4700	ug/m3	
TO15/NONE	GS	SB/SG11-15	N	Trichloroethene (TCE)	270	17000	17000	ug/m3	
TO15/NONE	GS	SB/SG11-25	N	Benzene	16.0	52.0	52.0	ug/m3	
TO15/NONE	GS	SB/SG11-25	N	1,1-Dichloroethane	41.0	62.0	62.0	ug/m3	
TO15/NONE	GS	SB/SG11-25	N	1,1-Dichloroethene	20.0	370	370	ug/m3	
TO15/NONE	GS	SB/SG11-25	N	cis-1,2-Dichloroethylene	40.0	120	120	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG11-25	N	trans-1,2-Dichloroethene	40.0	90.0	90.0	ug/m3	
TO15/NONE	GS	SB/SG11-25	N	Tetrachloroethene (PCE)	34.0	9200	9200	ug/m3	
TO15/NONE	GS	SB/SG11-25	N	Trichloroethene (TCE)	680	77000	77000	ug/m3	
TO15/NONE	GS	SB/SG11-35	N	Benzene	16.0	20.0	20.0	ug/m3	
TO15/NONE	GS	SB/SG11-35	N	1,1-Dichloroethane	41.0	47.0	47.0	ug/m3	
TO15/NONE	GS	SB/SG11-35	N	1,1-Dichloroethene	20.0	120	120	ug/m3	
TO15/NONE	GS	SB/SG11-35	N	cis-1,2-Dichloroethylene	40.0	2000	2000	ug/m3	
TO15/NONE	GS	SB/SG11-35	N	trans-1,2-Dichloroethene	40.0	260	260	ug/m3	
TO15/NONE	GS	SB/SG11-35	N	Tetrachloroethene (PCE)	34.0	12000	12000	ug/m3	
TO15/NONE	GS	SB/SG11-35	N	Trichloroethene (TCE)	270	34000	34000	ug/m3	
TO15/NONE	GS	SB/SG11-5	N	Tetrachloroethene (PCE)	34.0	560	560	ug/m3	
TO15/NONE	GS	SB/SG11-5	N	Trichloroethene (TCE)	27.0	110	110	ug/m3	
TO15/NONE	GS	SB/SG12-15	N	Toluene	38.0	71.0	71.0	ug/m3	
TO15/NONE	GS	SB/SG12-15	N	Tetrachloroethene (PCE)	34.0	5400	5400	ug/m3	
TO15/NONE	GS	SB/SG12-15	N	1,1,1-Trichloroethane	28.0	120	120	ug/m3	
TO15/NONE	GS	SB/SG12-15	N	Trichloroethene (TCE)	27.0	490	490	ug/m3	
TO15/NONE	GS	SB/SG12-25	N	Benzene	16.0	16.0	16.0	ug/m3	
TO15/NONE	GS	SB/SG12-25	N	1,1-Dichloroethene	20.0	410	410	ug/m3	
TO15/NONE	GS	SB/SG12-25	N	cis-1,2-Dichloroethylene	40.0	53.0	53.0	ug/m3	
TO15/NONE	GS	SB/SG12-25	N	Tetrachloroethene (PCE)	34.0	1300	1300	ug/m3	
TO15/NONE	GS	SB/SG12-25	N	Trichloroethene (TCE)	27.0	860	860	ug/m3	
TO15/NONE	GS	SB/SG12-25	N	Vinyl Chloride	13.0	46.0	46.0	ug/m3	
TO15/NONE	GS	SB/SG12-35	N	Benzene	16.0	22.0	22.0	ug/m3	
TO15/NONE	GS	SB/SG12-35	N	Toluene	38.0	47.0	47.0	ug/m3	
TO15/NONE	GS	SB/SG12-35	N	1,1-Dichloroethene	20.0	680	680	ug/m3	
TO15/NONE	GS	SB/SG12-35	N	cis-1,2-Dichloroethylene	40.0	890	890	ug/m3	
TO15/NONE	GS	SB/SG12-35	N	trans-1,2-Dichloroethene	40.0	120	120	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG12-35	N	Tetrachloroethene (PCE)	34.0	1100	1100	ug/m3	
TO15/NONE	GS	SB/SG12-35	N	Trichloroethene (TCE)	27.0	6900	6900	ug/m3	
TO15/NONE	GS	SB/SG12-35	N	Vinyl Chloride	13.0	87.0	87.0	ug/m3	
TO15/NONE	GS	SB/SG12-5	N	Tetrachloroethene (PCE)	34.0	5700	5700	ug/m3	
TO15/NONE	GS	SB/SG12-5	N	1,1,1-Trichloroethane	28.0	130	130	ug/m3	
TO15/NONE	GS	SB/SG12-5	N	Trichloroethene (TCE)	27.0	180	180	ug/m3	
TO15/NONE	GS	SB/SG13-15	N	Benzene	16.0	27.0	27.0	ug/m3	
TO15/NONE	GS	SB/SG13-15	N	1,1-Dichloroethene	20.0	41.0	41.0	ug/m3	
TO15/NONE	GS	SB/SG13-15	N	Tetrachloroethene (PCE)	340	29000	29000	ug/m3	
TO15/NONE	GS	SB/SG13-15	N	1,1,1-Trichloroethane	28.0	320	320	ug/m3	
TO15/NONE	GS	SB/SG13-15	N	Trichloroethene (TCE)	270	17000	17000	ug/m3	
TO15/NONE	GS	SB/SG13-25	N	Benzene	16.0	48.0	48.0	ug/m3	
TO15/NONE	GS	SB/SG13-25	N	Toluene	38.0	63.0	63.0	ug/m3	
TO15/NONE	GS	SB/SG13-25	N	1,1-Dichloroethene	20.0	480	480	ug/m3	
TO15/NONE	GS	SB/SG13-25	N	cis-1,2-Dichloroethylene	40.0	42.0	42.0	ug/m3	
TO15/NONE	GS	SB/SG13-25	N	Tetrachloroethene (PCE)	860	51000	51000	ug/m3	
TO15/NONE	GS	SB/SG13-25	N	1,1,1-Trichloroethane	28.0	170	170	ug/m3	
TO15/NONE	GS	SB/SG13-25	N	Trichloroethene (TCE)	680	67000	67000	ug/m3	
TO15/NONE	GS	SB/SG13-25	N	Chloroform	25.0	26.0	26.0	ug/m3	
TO15/NONE	GS	SB/SG13-35	N	Benzene	16.0	32.0	32.0	ug/m3	
TO15/NONE	GS	SB/SG13-35	N	Toluene	38.0	65.0	65.0	ug/m3	
TO15/NONE	GS	SB/SG13-35	N	1,1-Dichloroethene	20.0	89.0	89.0	ug/m3	
TO15/NONE	GS	SB/SG13-35	N	cis-1,2-Dichloroethylene	40.0	610	610	ug/m3	
TO15/NONE	GS	SB/SG13-35	N	trans-1,2-Dichloroethene	40.0	73.0	73.0	ug/m3	
TO15/NONE	GS	SB/SG13-35	N	Tetrachloroethene (PCE)	34.0	9400	9400	ug/m3	
TO15/NONE	GS	SB/SG13-35	N	1,1,1-Trichloroethane	28.0	38.0	38.0	ug/m3	
TO15/NONE	GS	SB/SG13-35	N	Trichloroethene (TCE)	550	110000	110000	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG13-35	N	m,p-Xylene	44.0	51.0	51.0	ug/m3	
TO15/NONE	GS	SB/SG13-35	N	o-Xylene	22.0	23.0	23.0	ug/m3	
TO15/NONE	GS	SB/SG13-5	N	Tetrachloroethene (PCE)	34.0	13000	13000	ug/m3	
TO15/NONE	GS	SB/SG13-5	N	1,1,1-Trichloroethane	28.0	450	450	ug/m3	
TO15/NONE	GS	SB/SG13-5	N	Trichloroethene (TCE)	27.0	5000	5000	ug/m3	
TO15/NONE	GS	SB/SG14-15	N	Benzene	16.0	28.0	28.0	ug/m3	
TO15/NONE	GS	SB/SG14-15	N	1,1-Dichloroethene	20.0	39.0	39.0	ug/m3	
TO15/NONE	GS	SB/SG14-15	N	Tetrachloroethene (PCE)	34.0	11000	11000	ug/m3	
TO15/NONE	GS	SB/SG14-15	N	1,1,1-Trichloroethane	28.0	260	260	ug/m3	
TO15/NONE	GS	SB/SG14-15	N	Trichloroethene (TCE)	27.0	2700	2700	ug/m3	
TO15/NONE	GS	SB/SG14-25	N	Benzene	16.0	27.0	27.0	ug/m3	
TO15/NONE	GS	SB/SG14-25	N	1,1-Dichloroethene	20.0	110	110	ug/m3	
TO15/NONE	GS	SB/SG14-25	N	Tetrachloroethene (PCE)	34.0	18000	18000	ug/m3	
TO15/NONE	GS	SB/SG14-25	N	1,1,1-Trichloroethane	28.0	110	110	ug/m3	
TO15/NONE	GS	SB/SG14-25	N	Trichloroethene (TCE)	27.0	8800	8800	ug/m3	
TO15/NONE	GS	SB/SG14-35	N	Benzene	16.0	18.0	18.0	ug/m3	
TO15/NONE	GS	SB/SG14-35	N	1,1-Dichloroethane	41.0	43.0	43.0	ug/m3	
TO15/NONE	GS	SB/SG14-35	N	1,1-Dichloroethene	20.0	370	370	ug/m3	
TO15/NONE	GS	SB/SG14-35	N	cis-1,2-Dichloroethylene	40.0	2600	2600	ug/m3	
TO15/NONE	GS	SB/SG14-35	N	trans-1,2-Dichloroethene	40.0	370	370	ug/m3	
TO15/NONE	GS	SB/SG14-35	N	Tetrachloroethene (PCE)	34.0	16000	16000	ug/m3	
TO15/NONE	GS	SB/SG14-35	N	1,1,1-Trichloroethane	28.0	170	170	ug/m3	
TO15/NONE	GS	SB/SG14-35	N	Trichloroethene (TCE)	1400	390000	390000	ug/m3	
TO15/NONE	GS	SB/SG14-5	N	Tetrachloroethene (PCE)	34.0	13000	13000	ug/m3	
TO15/NONE	GS	SB/SG14-5	N	1,1,1-Trichloroethane	28.0	540	540	ug/m3	
TO15/NONE	GS	SB/SG14-5	N	Trichloroethene (TCE)	27.0	2100	2100	ug/m3	
TO15/NONE	GS	SB/SG14-5 Rep	FD	Benzene	16.0	18.0	18.0	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG14-5 Rep	FD	Tetrachloroethene (PCE)	34.0	13000	13000	ug/m3	
TO15/NONE	GS	SB/SG14-5 Rep	FD	1,1,1-Trichloroethane	28.0	550	550	ug/m3	
TO15/NONE	GS	SB/SG14-5 Rep	FD	Trichloroethene (TCE)	27.0	1700	1700	ug/m3	
TO15/NONE	GS	SB/SG15-15	N	Benzene	16.0	36.0	36.0	ug/m3	
TO15/NONE	GS	SB/SG15-15	N	1,1-Dichloroethene	20.0	74.0	74.0	ug/m3	
TO15/NONE	GS	SB/SG15-15	N	Tetrachloroethene (PCE)	340	22000	22000	ug/m3	
TO15/NONE	GS	SB/SG15-15	N	1,1,1-Trichloroethane	28.0	810	810	ug/m3	
TO15/NONE	GS	SB/SG15-15	N	Trichloroethene (TCE)	27.0	7900	7900	ug/m3	
TO15/NONE	GS	SB/SG15-25	N	Benzene	16.0	34.0	34.0	ug/m3	
TO15/NONE	GS	SB/SG15-25	N	p-Cymene (p-Isopropyltoluene)	28.0	40.0	40.0	ug/m3	
TO15/NONE	GS	SB/SG15-25	N	1,1-Dichloroethene	20.0	98.0	98.0	ug/m3	
TO15/NONE	GS	SB/SG15-25	N	Tetrachloroethene (PCE)	340	46000	46000	ug/m3	
TO15/NONE	GS	SB/SG15-25	N	1,1,1-Trichloroethane	28.0	180	180	ug/m3	
TO15/NONE	GS	SB/SG15-25	N	Trichloroethene (TCE)	270	17000	17000	ug/m3	
TO15/NONE	GS	SB/SG15-35	N	1,1-Dichloroethene	20.0	130	130	ug/m3	
TO15/NONE	GS	SB/SG15-35	N	cis-1,2-Dichloroethylene	40.0	610	610	ug/m3	
TO15/NONE	GS	SB/SG15-35	N	trans-1,2-Dichloroethene	40.0	130	130	ug/m3	
TO15/NONE	GS	SB/SG15-35	N	Tetrachloroethene (PCE)	34.0	12000	12000	ug/m3	
TO15/NONE	GS	SB/SG15-35	N	1,1,1-Trichloroethane	28.0	320	320	ug/m3	
TO15/NONE	GS	SB/SG15-35	N	Trichloroethene (TCE)	680	160000	160000	ug/m3	
TO15/NONE	GS	SB/SG15-5	N	Tetrachloroethene (PCE)	34.0	16000	16000	ug/m3	
TO15/NONE	GS	SB/SG15-5	N	1,1,1-Trichloroethane	28.0	1500	1500	ug/m3	
TO15/NONE	GS	SB/SG15-5	N	Trichloroethene (TCE)	27.0	7500	7500	ug/m3	
TO15/NONE	GS	SB/SG16-15, 1PV	N	n-Butylbenzene	28.0	30.0	30.0	ug/m3	
TO15/NONE	GS	SB/SG16-15, 1PV	N	Toluene	38.0	39.0	39.0	ug/m3	
TO15/NONE	GS	SB/SG16-15, 1PV	N	1,1-Dichloroethane	41.0	61.0	61.0	ug/m3	
TO15/NONE	GS	SB/SG16-15, 1PV	N	1,1-Dichloroethene	20.0	2800	2800	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG16-15, 1PV	N	Ethylbenzene	22.0	28.0	28.0	ug/m3	
TO15/NONE	GS	SB/SG16-15, 1PV	N	Trichlorofluoromethane	56.0	75.0	75.0	ug/m3	
TO15/NONE	GS	SB/SG16-15, 1PV	N	1,1,2-Trichloro-1,2,2-trifluoroethane	77.0	77000	77000 J	ug/m3	E
TO15/NONE	GS	SB/SG16-15, 1PV	N	Naphthalene	27.0	27.0	27.0	ug/m3	
TO15/NONE	GS	SB/SG16-15, 1PV	N	Tetrachloroethene (PCE)	34.0	660	660	ug/m3	
TO15/NONE	GS	SB/SG16-15, 1PV	N	1,1,1-Trichloroethane	28.0	14000	14000	ug/m3	
TO15/NONE	GS	SB/SG16-15, 1PV	N	Trichloroethene (TCE)	27.0	810	810	ug/m3	
TO15/NONE	GS	SB/SG16-15, 1PV	N	m,p-Xylene	44.0	48.0	48.0	ug/m3	
TO15/NONE	GS	SB/SG16-15, 1PV	N	o-Xylene	22.0	25.0	25.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 10PV	N	n-Butylbenzene	28.0	33.0	33.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 10PV	N	Benzene	16.0	21.0	21.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 10PV	N	1,1-Dichloroethene	20.0	770	770	ug/m3	
TO15/NONE	GS	SB/SG16-25, 10PV	N	cis-1,2-Dichloroethylene	40.0	81.0	81.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 10PV	N	trans-1,2-Dichloroethene	40.0	64.0	64.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 10PV	N	Tetrachloroethene (PCE)	34.0	12000	12000	ug/m3	
TO15/NONE	GS	SB/SG16-25, 10PV	N	1,1,1-Trichloroethane	28.0	41.0	41.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 10PV	N	Trichloroethene (TCE)	270	77000	77000	ug/m3	
TO15/NONE	GS	SB/SG16-25, 10PV	N	Vinyl Chloride	13.0	31.0	31.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 1PV	N	Benzene	16.0	38.0	38.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 1PV	N	p-Cymene (p-Isopropyltoluene)	28.0	35.0	35.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 1PV	N	1,1-Dichloroethene	20.0	690	690	ug/m3	
TO15/NONE	GS	SB/SG16-25, 1PV	N	cis-1,2-Dichloroethylene	40.0	110	110	ug/m3	
TO15/NONE	GS	SB/SG16-25, 1PV	N	trans-1,2-Dichloroethene	40.0	48.0	48.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 1PV	N	Tetrachloroethene (PCE)	34.0	13000	13000	ug/m3	
TO15/NONE	GS	SB/SG16-25, 1PV	N	1,1,1-Trichloroethane	28.0	41.0	41.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 1PV	N	Trichloroethene (TCE)	270	69000	69000	ug/m3	
TO15/NONE	GS	SB/SG16-25, 3PV	N	Benzene	16.0	43.0	43.0	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG16-25, 3PV	N	p-Cymene (p-Isopropyltoluene)	28.0	35.0	35.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 3PV	N	1,1-Dichloroethene	20.0	800	800	ug/m3	
TO15/NONE	GS	SB/SG16-25, 3PV	N	cis-1,2-Dichloroethylene	40.0	120	120	ug/m3	
TO15/NONE	GS	SB/SG16-25, 3PV	N	trans-1,2-Dichloroethene	40.0	67.0	67.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 3PV	N	Tetrachloroethene (PCE)	34.0	13000	13000	ug/m3	
TO15/NONE	GS	SB/SG16-25, 3PV	N	1,1,1-Trichloroethane	28.0	33.0	33.0	ug/m3	
TO15/NONE	GS	SB/SG16-25, 3PV	N	Trichloroethene (TCE)	270	81000	81000	ug/m3	
TO15/NONE	GS	SB/SG16-35	N	cis-1,2-Dichloroethylene	1000	1800	1800	ug/m3	
TO15/NONE	GS	SB/SG16-35	N	Tetrachloroethene (PCE)	860	12000	12000	ug/m3	
TO15/NONE	GS	SB/SG16-35	N	Trichloroethene (TCE)	680	38000	38000	ug/m3	
TO15/NONE	GS	SB/SG16-5, 10PV	N	Tetrachloroethene (PCE)	34.0	3500	3500	ug/m3	
TO15/NONE	GS	SB/SG16-5, 10PV	N	1,1,1-Trichloroethane	28.0	190	190	ug/m3	
TO15/NONE	GS	SB/SG16-5, 10PV	N	Trichloroethene (TCE)	27.0	3300	3300	ug/m3	
TO15/NONE	GS	SB/SG16-5, 1PV	N	Tetrachloroethene (PCE)	34.0	3200	3200	ug/m3	
TO15/NONE	GS	SB/SG16-5, 1PV	N	1,1,1-Trichloroethane	28.0	200	200	ug/m3	
TO15/NONE	GS	SB/SG16-5, 1PV	N	Trichloroethene (TCE)	27.0	3200	3200	ug/m3	
TO15/NONE	GS	SB/SG16-5, 3PV	N	Tetrachloroethene (PCE)	34.0	3500	3500	ug/m3	
TO15/NONE	GS	SB/SG16-5, 3PV	N	1,1,1-Trichloroethane	28.0	200	200	ug/m3	
TO15/NONE	GS	SB/SG16-5, 3PV	N	Trichloroethene (TCE)	27.0	3300	3300	ug/m3	
TO15/NONE	GS	SB/SG17-15	N	Benzene	16.0	24.0	24.0	ug/m3	
TO15/NONE	GS	SB/SG17-15	N	1,1-Dichloroethene	20.0	97.0	97.0	ug/m3	
TO15/NONE	GS	SB/SG17-15	N	Tetrachloroethene (PCE)	690	29000	29000 J	ug/m3	D5
TO15/NONE	GS	SB/SG17-15	N	1,1,1-Trichloroethane	28.0	260	260	ug/m3	
TO15/NONE	GS	SB/SG17-15	N	Trichloroethene (TCE)	27.0	5600	5600	ug/m3	
TO15/NONE	GS	SB/SG17-15 Rep	FD	Benzene	16.0	28.0	28.0	ug/m3	
TO15/NONE	GS	SB/SG17-15 Rep	FD	1,1-Dichloroethene	20.0	98.0	98.0	ug/m3	
TO15/NONE	GS	SB/SG17-15 Rep	FD	Tetrachloroethene (PCE)	34.0	19000	19000 J	ug/m3	D5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG17-15 Rep	FD	1,1,1-Trichloroethane	28.0	250	250	ug/m3	
TO15/NONE	GS	SB/SG17-15 Rep	FD	Trichloroethene (TCE)	27.0	4600	4600	ug/m3	
TO15/NONE	GS	SB/SG17-25	N	Benzene	16.0	30.0	30.0	ug/m3	
TO15/NONE	GS	SB/SG17-25	N	1,1-Dichloroethene	20.0	100	100	ug/m3	
TO15/NONE	GS	SB/SG17-25	N	Tetrachloroethene (PCE)	340	28000	28000	ug/m3	
TO15/NONE	GS	SB/SG17-25	N	1,1,1-Trichloroethane	28.0	180	180	ug/m3	
TO15/NONE	GS	SB/SG17-25	N	Trichloroethene (TCE)	27.0	5900	5900	ug/m3	
TO15/NONE	GS	SB/SG17-35	N	1,1-Dichloroethene	20.0	110	110	ug/m3	
TO15/NONE	GS	SB/SG17-35	N	cis-1,2-Dichloroethylene	40.0	2200	2200	ug/m3	
TO15/NONE	GS	SB/SG17-35	N	trans-1,2-Dichloroethene	40.0	210	210	ug/m3	
TO15/NONE	GS	SB/SG17-35	N	Tetrachloroethene (PCE)	34.0	13000	13000	ug/m3	
TO15/NONE	GS	SB/SG17-35	N	Trichloroethene (TCE)	270	34000	34000	ug/m3	
TO15/NONE	GS	SB/SG17-35	N	Chloroform	25.0	93.0	93.0	ug/m3	
TO15/NONE	GS	SB/SG17-5	N	Tetrachloroethene (PCE)	34.0	9700	9700	ug/m3	
TO15/NONE	GS	SB/SG17-5	N	1,1,1-Trichloroethane	28.0	710	710	ug/m3	
TO15/NONE	GS	SB/SG17-5	N	Trichloroethene (TCE)	27.0	3400	3400	ug/m3	
TO15/NONE	GS	SB/SG18-15, 10PV	N	Benzene	16.0	43.0	43.0 J	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Tetrachloroethene (PCE)	34.0	1600	1600 J	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 10PV	N	Trichloroethene (TCE)	27.0	280	280 J	ug/m3	V
TO15/NONE	GS	SB/SG18-15, 1PV	N	Benzene	16.0	35.0	35.0	ug/m3	
TO15/NONE	GS	SB/SG18-15, 1PV	N	1,1-Dichloroethene	20.0	230	230	ug/m3	
TO15/NONE	GS	SB/SG18-15, 1PV	N	1,1,2-Trichloro-1,2,2-trifluoroethane	77.0	3400	3400	ug/m3	
TO15/NONE	GS	SB/SG18-15, 1PV	N	Tetrachloroethene (PCE)	34.0	640	640	ug/m3	
TO15/NONE	GS	SB/SG18-15, 1PV	N	1,1,1-Trichloroethane	28.0	2000	2000	ug/m3	
TO15/NONE	GS	SB/SG18-15, 1PV	N	Trichloroethene (TCE)	27.0	200	200	ug/m3	
TO15/NONE	GS	SB/SG18-15, 3PV	N	Benzene	16.0	48.0	48.0	ug/m3	
TO15/NONE	GS	SB/SG18-15, 3PV	N	Tetrachloroethene (PCE)	34.0	2100	2100	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG18-15, 3PV	N	1,1,1-Trichloroethane	28.0	34.0	34.0	ug/m3	
TO15/NONE	GS	SB/SG18-15, 3PV	N	Trichloroethene (TCE)	27.0	390	390	ug/m3	
TO15/NONE	GS	SB/SG18-25	N	Benzene	16.0	29.0	29.0	ug/m3	
TO15/NONE	GS	SB/SG18-25	N	Tetrachloroethene (PCE)	34.0	4300	4300	ug/m3	
TO15/NONE	GS	SB/SG18-25	N	1,1,1-Trichloroethane	28.0	38.0	38.0	ug/m3	
TO15/NONE	GS	SB/SG18-25	N	Trichloroethene (TCE)	27.0	800	800	ug/m3	
TO15/NONE	GS	SB/SG18-35, 10PV	N	1,1-Dichloroethene	20.0	53.0	53.0	ug/m3	
TO15/NONE	GS	SB/SG18-35, 10PV	N	cis-1,2-Dichloroethylene	40.0	1400	1400	ug/m3	
TO15/NONE	GS	SB/SG18-35, 10PV	N	trans-1,2-Dichloroethene	40.0	110	110	ug/m3	
TO15/NONE	GS	SB/SG18-35, 10PV	N	Tetrachloroethene (PCE)	34.0	9100	9100	ug/m3	
TO15/NONE	GS	SB/SG18-35, 10PV	N	1,1,1-Trichloroethane	28.0	220	220	ug/m3	
TO15/NONE	GS	SB/SG18-35, 10PV	N	Trichloroethene (TCE)	27.0	8900	8900	ug/m3	
TO15/NONE	GS	SB/SG18-35, 1PV	N	Bromodichloromethane	68.0	77.0	77.0	ug/m3	
TO15/NONE	GS	SB/SG18-35, 1PV	N	1,1-Dichloroethene	20.0	54.0	54.0	ug/m3	
TO15/NONE	GS	SB/SG18-35, 1PV	N	cis-1,2-Dichloroethylene	40.0	1400	1400	ug/m3	
TO15/NONE	GS	SB/SG18-35, 1PV	N	trans-1,2-Dichloroethene	40.0	150	150	ug/m3	
TO15/NONE	GS	SB/SG18-35, 1PV	N	Tetrachloroethene (PCE)	34.0	9400	9400	ug/m3	
TO15/NONE	GS	SB/SG18-35, 1PV	N	1,1,1-Trichloroethane	28.0	240	240	ug/m3	
TO15/NONE	GS	SB/SG18-35, 1PV	N	Trichloroethene (TCE)	27.0	9100	9100	ug/m3	
TO15/NONE	GS	SB/SG18-35, 1PV	N	Chloroform	25.0	27.0	27.0	ug/m3	
TO15/NONE	GS	SB/SG18-35, 3PV	N	1,1-Dichloroethene	20.0	110	110	ug/m3	
TO15/NONE	GS	SB/SG18-35, 3PV	N	cis-1,2-Dichloroethylene	40.0	1500	1500	ug/m3	
TO15/NONE	GS	SB/SG18-35, 3PV	N	trans-1,2-Dichloroethene	40.0	140	140	ug/m3	
TO15/NONE	GS	SB/SG18-35, 3PV	N	Tetrachloroethene (PCE)	34.0	10000	10000	ug/m3	
TO15/NONE	GS	SB/SG18-35, 3PV	N	1,1,1-Trichloroethane	28.0	230	230	ug/m3	
TO15/NONE	GS	SB/SG18-35, 3PV	N	Trichloroethene (TCE)	27.0	9300	9300	ug/m3	
TO15/NONE	GS	SB/SG18-5	N	Tetrachloroethene (PCE)	34.0	540	540	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG18-5	N	1,1,1-Trichloroethane	28.0	52.0	52.0	ug/m3	
TO15/NONE	GS	SB/SG18-5	N	Trichloroethene (TCE)	27.0	81.0	81.0	ug/m3	
TO15/NONE	GS	SB/SG19-15	N	Benzene	16.0	45.0	45.0	ug/m3	
TO15/NONE	GS	SB/SG19-15	N	1,1-Dichloroethene	20.0	47.0	47.0	ug/m3	
TO15/NONE	GS	SB/SG19-15	N	cis-1,2-Dichloroethylene	40.0	84.0	84.0	ug/m3	
TO15/NONE	GS	SB/SG19-15	N	Tetrachloroethene (PCE)	34.0	1700	1700	ug/m3	
TO15/NONE	GS	SB/SG19-15	N	Trichloroethene (TCE)	270	17000	17000	ug/m3	
TO15/NONE	GS	SB/SG19-25	N	Benzene	16.0	57.0	57.0	ug/m3	
TO15/NONE	GS	SB/SG19-25	N	1,1-Dichloroethane	41.0	120	120	ug/m3	
TO15/NONE	GS	SB/SG19-25	N	1,1-Dichloroethene	20.0	670	670	ug/m3	
TO15/NONE	GS	SB/SG19-25	N	cis-1,2-Dichloroethylene	40.0	580	580	ug/m3	
TO15/NONE	GS	SB/SG19-25	N	trans-1,2-Dichloroethene	40.0	200	200	ug/m3	
TO15/NONE	GS	SB/SG19-25	N	Tetrachloroethene (PCE)	34.0	8700	8700	ug/m3	
TO15/NONE	GS	SB/SG19-25	N	Trichloroethene (TCE)	1400	180000	180000	ug/m3	
TO15/NONE	GS	SB/SG19-35	N	Benzene	16.0	17.0	17.0	ug/m3	
TO15/NONE	GS	SB/SG19-35	N	Toluene	38.0	51.0	51.0	ug/m3	
TO15/NONE	GS	SB/SG19-35	N	1,1-Dichloroethene	20.0	110	110	ug/m3	
TO15/NONE	GS	SB/SG19-35	N	cis-1,2-Dichloroethylene	40.0	2300	2300	ug/m3	
TO15/NONE	GS	SB/SG19-35	N	trans-1,2-Dichloroethene	40.0	210	210	ug/m3	
TO15/NONE	GS	SB/SG19-35	N	Tetrachloroethene (PCE)	34.0	6200	6200	ug/m3	
TO15/NONE	GS	SB/SG19-35	N	Trichloroethene (TCE)	270	27000	27000	ug/m3	
TO15/NONE	GS	SB/SG19-5	N	Tetrachloroethene (PCE)	34.0	420	420	ug/m3	
TO15/NONE	GS	SB/SG19-5	N	Trichloroethene (TCE)	27.0	260	260	ug/m3	
TO15/NONE	GS	SB/SG20-15	N	Benzene	16.0	22.0	22.0	ug/m3	
TO15/NONE	GS	SB/SG20-15	N	Tetrachloroethene (PCE)	34.0	6700	6700	ug/m3	
TO15/NONE	GS	SB/SG20-15	N	1,1,1-Trichloroethane	28.0	72.0	72.0	ug/m3	
TO15/NONE	GS	SB/SG20-15	N	Trichloroethene (TCE)	27.0	860	860	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG20-25	N	Benzene	16.0	23.0	23.0	ug/m3	
TO15/NONE	GS	SB/SG20-25	N	Tetrachloroethene (PCE)	34.0	7700	7700	ug/m3	
TO15/NONE	GS	SB/SG20-25	N	Trichloroethene (TCE)	27.0	1200	1200	ug/m3	
TO15/NONE	GS	SB/SG20-35	N	1,1-Dichloroethene	20.0	32.0	32.0	ug/m3	
TO15/NONE	GS	SB/SG20-35	N	cis-1,2-Dichloroethylene	40.0	780	780	ug/m3	
TO15/NONE	GS	SB/SG20-35	N	trans-1,2-Dichloroethene	40.0	80.0	80.0	ug/m3	
TO15/NONE	GS	SB/SG20-35	N	Tetrachloroethene (PCE)	34.0	2900	2900	ug/m3	
TO15/NONE	GS	SB/SG20-35	N	Trichloroethene (TCE)	27.0	3700	3700	ug/m3	
TO15/NONE	GS	SB/SG20-5	N	Tetrachloroethene (PCE)	34.0	2700	2700	ug/m3	
TO15/NONE	GS	SB/SG20-5	N	1,1,1-Trichloroethane	28.0	38.0	38.0	ug/m3	
TO15/NONE	GS	SB/SG21-15	N	Tetrachloroethene (PCE)	34.0	1000	1000	ug/m3	
TO15/NONE	GS	SB/SG21-15	N	Trichloroethene (TCE)	27.0	68.0	68.0	ug/m3	
TO15/NONE	GS	SB/SG21-25	N	Benzene	16.0	97.0	97.0	ug/m3	
TO15/NONE	GS	SB/SG21-25	N	1,1-Dichloroethene	20.0	130	130	ug/m3	
TO15/NONE	GS	SB/SG21-25	N	cis-1,2-Dichloroethylene	40.0	130	130	ug/m3	
TO15/NONE	GS	SB/SG21-25	N	Tetrachloroethene (PCE)	34.0	700	700	ug/m3	
TO15/NONE	GS	SB/SG21-25	N	Trichloroethene (TCE)	27.0	1900	1900	ug/m3	
TO15/NONE	GS	SB/SG21-35	N	1,1-Dichloroethene	20.0	21.0	21.0	ug/m3	
TO15/NONE	GS	SB/SG21-35	N	cis-1,2-Dichloroethylene	40.0	640	640	ug/m3	
TO15/NONE	GS	SB/SG21-35	N	trans-1,2-Dichloroethene	40.0	49.0	49.0	ug/m3	
TO15/NONE	GS	SB/SG21-35	N	Tetrachloroethene (PCE)	34.0	3800	3800	ug/m3	
TO15/NONE	GS	SB/SG21-35	N	Trichloroethene (TCE)	27.0	3100	3100	ug/m3	
TO15/NONE	GS	SB/SG21-35	N	Chloroform	25.0	30.0	30.0	ug/m3	
TO15/NONE	GS	SB/SG21-5	N	Tetrachloroethene (PCE)	34.0	1100	1100	ug/m3	
TO15/NONE	GS	SB/SG21-5	N	Trichloroethene (TCE)	27.0	79.0	79.0	ug/m3	
TO15/NONE	GS	SB/SG21-5 Rep	FD	Tetrachloroethene (PCE)	34.0	1000	1000	ug/m3	
TO15/NONE	GS	SB/SG21-5 Rep	FD	Trichloroethene (TCE)	27.0	88.0	88.0	ug/m3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG22-25	N	Benzene	16.0	27.0	27.0	ug/m3	
TO15/NONE	GS	SB/SG22-25	N	Chloromethane	21.0	31.0	31.0	ug/m3	
TO15/NONE	GS	SB/SG22-25	N	1,1-Dichloroethene	20.0	410	410	ug/m3	
TO15/NONE	GS	SB/SG22-25	N	cis-1,2-Dichloroethylene	40.0	1600	1600	ug/m3	
TO15/NONE	GS	SB/SG22-25	N	trans-1,2-Dichloroethene	40.0	200	200	ug/m3	
TO15/NONE	GS	SB/SG22-25	N	Trichloroethene (TCE)	27.0	1700	1700	ug/m3	
TO15/NONE	GS	SB/SG22-25	N	Vinyl Chloride	13.0	75.0	75.0 J	ug/m3	D5
TO15/NONE	GS	SB/SG22-25 Rep	FD	1,1-Dichloroethene	20.0	330	330	ug/m3	
TO15/NONE	GS	SB/SG22-25 Rep	FD	cis-1,2-Dichloroethylene	40.0	1400	1400	ug/m3	
TO15/NONE	GS	SB/SG22-25 Rep	FD	trans-1,2-Dichloroethene	40.0	180	180	ug/m3	
TO15/NONE	GS	SB/SG22-25 Rep	FD	Trichloroethene (TCE)	27.0	1700	1700	ug/m3	
TO15/NONE	GS	SB/SG22-25 Rep	FD	Vinyl Chloride	13.0	47.0	47.0 J	ug/m3	D5
TO15/NONE	GS	SB/SG22-35	N	Tetrachloroethene (PCE)	34.0	160	160	ug/m3	
TO15/NONE	GS	SB/SG22-35	N	Trichloroethene (TCE)	27.0	150	150	ug/m3	
TO15/NONE	GS	SB/SG22-5	N	Tetrachloroethene (PCE)	34.0	370	370	ug/m3	
TO15/NONE	GS	SB/SG23-15	N	Tetrachloroethene (PCE)	34.0	35.0	35.0	ug/m3	
TO15/NONE	GS	SB/SG23-25	N	Trichloroethene (TCE)	27.0	180	180	ug/m3	
TO15/NONE	GS	SB/SG24-35	N	Tetrachloroethene (PCE)	34.0	220	220	ug/m3	
TO15/NONE	GS	SB/SG25-15	N	1,1,1-Trichloroethane	28.0	30.0	30.0	ug/m3	
TO15/NONE	GS	SB/SG25-15	N	Trichloroethene (TCE)	27.0	48.0	48.0	ug/m3	
TO15/NONE	GS	SB/SG25-25	N	1,1,1-Trichloroethane	28.0	29.0	29.0	ug/m3	
TO15/NONE	GS	SB/SG25-35	N	Tetrachloroethene (PCE)	34.0	310	310	ug/m3	
TO15/NONE	GS	SB/SG25-35	N	Trichloroethene (TCE)	27.0	72.0	72.0	ug/m3	
TO15/NONE	GS	SB/SG25-5	N	1,1,1-Trichloroethane	28.0	31.0	31.0	ug/m3	
TO15/NONE	GS	SB/SG26-15	N	Trichloroethene (TCE)	27.0	29.0	29.0	ug/m3	
TO15/NONE	GS	SB/SG26-25	N	Trichloroethene (TCE)	27.0	46.0	46.0	ug/m3	
TO15/NONE	GS	SB/SG26-35	N	Tetrachloroethene (PCE)	34.0	230	230	ug/m3	

AUTOMATED DATA REVIEW SUMMARY for J1630072

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SB/SG26-35	N	Trichloroethene (TCE)	27.0	110	110 J	ug/m3	D5
TO15/NONE	GS	SB/SG26-35 Rep	FD	Tetrachloroethene (PCE)	34.0	170	170	ug/m3	
TO15/NONE	GS	SB/SG26-35 Rep	FD	Trichloroethene (TCE)	27.0	53.0	53.0 J	ug/m3	D5
TO15/NONE	GS	SB/SG26-5	N	Tetrachloroethene (PCE)	34.0	50.0	50.0	ug/m3	
TO15/NONE	GS	SB/SG26-5	N	Trichloroethene (TCE)	27.0	70.0	70.0	ug/m3	

Rejected Results

--No Records Found--

Additions to Narrative Comments

The following samples listed below underwent Tier 3 validation.

Collection Date	Lab Sample ID	Field Sample ID	Collection Date	Lab Sample ID	Field Sample ID
03/23/15	E503100-01	SB/SG16-5, 1PV	03/25/15	E503112-09	SB/SG19-5
03/23/15	E503100-02	SB/SG16-5, 3PV	03/25/15	E503112-10	SB/SG19-15
03/23/15	E503100-03	SB/SG16-5, 10PV	03/26/15	E503117-01	SB/SG19-35
03/23/15	E503100-04	SB/SG16-25, 1PV	03/26/15	E503117-02	SB/SG19-25
03/23/15	E503100-05	SB/SG16-25, 3PV	03/30/15	E503140-02	SB/SG13-5
03/23/15	E503100-06	SB/SG16-15, 1PV	03/30/15	E503140-03	SB/SG13-15
03/23/15	E503100-07	SB/SG16-25, 10PV	03/30/15	E503140-04	SB/SG13-25
03/25/15	E503112-01	SB/SG16-35	03/30/15	E503140-05	SB/SG13-35

The *Log Sheet: Soil Vapor Sampling with Syringe* indicated that water was present in the tubing (reason code "C") during the collection of sample SB/SG18-15 10PV (E503104-05). Since water can absorb volatile compounds, the associated results have been qualified as "J-" or "UJ-" for an estimated value or reporting limit with a low bias (See **QC Outlier Manual Review Report** in this ADR).

The result (before dilution factor applied) for 1,1,2-trichlorotrifluoroethane (F113) in sample SB/SG16-15, 1PV (E503100-06) was greater than the highest standard of the multi-level calibration curve (reason code "E"). The result has been qualified as "J" for an estimated value (See **QC Outlier Manual Review Report** in this ADR).

The laboratory did not analyze an LCSD to provide a measurement of precision for the analytical batch. The results of the field replicate were used to provide a measurement of precision for the batches.

The laboratory reporting limits for a one times analysis (1X) were reviewed against the project screening limits. The laboratory reporting limits for 13 of the compounds were greater than the project screening levels. The evaluation of the laboratory reporting limits against the project screening levels are summarized in **H&P Reporting Limit Evaluation Table** attached to this ADR. The non-detect results associated with the samples from this project were all reported at a one times dilution except for sample SB/SG16-35 (E503112-01) which is discussed below.

The reporting limits for the non-detect results for the sample SB/SG16-35 (E503112-01) were elevated for the compounds listed in the table below due to large amounts of target analytes present in the sample. Several of the analytes with non-detect results had reporting limit greater than the project screening levels. No qualifiers are required, however, the end users of the data should be aware that elevated reporting limits for the non-detect results in the sample may mask low-level concentrations of the analyte.

Additions to Narrative Comments

Elevated Reporting Limits for Sample SB/SG16-35 / E503112-01 (for Non-detect Results)

Analyte	Result	RL	Units	Dilution Factor	Residential Screening Levels*	RSL
1,1,1,2-Tetrachloroethane	ND	1700	ug/m^3	25	12.7	0.38
1,1,2,2-Tetrachloroethane	ND	1700	ug/m^3	25	1.6	0.048
1,1,2-Trichloroethane	ND	1400	ug/m^3	25	6.0	0.18
1,1-Dichloroethane	ND	1000	ug/m^3	25	60.0	1.8
1,2,4-Trichlorobenzene	ND	1900	ug/m^3	25	70.0	2.1
1,2,4-Trimethylbenzene	ND	1200	ug/m^3	25	243.3	7.3
1,2-Dichloroethane	ND	510	ug/m^3	25	3.7	0.11
1,4-Dichlorobenzene	ND	1500	ug/m^3	25	8.7	0.26
1,4-Dioxane (p-Dioxane)	ND	910	ug/m^3	25	18.7	0.56
Benzene	ND	400	ug/m^3	25	12.0	0.36
Bromodichloromethane	ND	1700	ug/m^3	25	2.5	0.076
Bromomethane	ND	990	ug/m^3	25	173.3	5.2
Carbon Tetrachloride	ND	320	ug/m^3	25	15.7	0.47
Chloroform	ND	620	ug/m^3	25	4.0	0.12
Ethylbenzene	ND	550	ug/m^3	25	36.7	1.1
Naphthalene	ND	660	ug/m^3	25	2.8	0.083
Vinyl Chloride	ND	320	ug/m^3	25	5.7	0.17

* Based on USEPA Regional Screening Levels (RSL) for Air, Hazard Quotient = 1.0 (RSLs; January 2015) for Residential. Residential Screening Level is calculated using a default soil gas to indoor air attenuation factor of 0.03 for Residential obtained from Table 6-1 of US EPA Office of Solid Waste and Emergency Response (OSWER), Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air, June 2015.
RSL = Regional Screening Level
ug/m^3 = micrograms per cubic meter

Jervis Webb Superfund Site_Spring 2015 Soil/Soil Gas Sampling Event
Field Duplicate Report By SDG
JRVWB
Final SAP,RI/FS,Gilbane,2015
Field Duplicates for SDG: J1630072

Location	Analysis
JW-SB/SG07	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1,1,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1,1-Trichloroethane	ND	ND	28.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1,2,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1,2-Trichloroethane	ND	ND	55.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1-Dichloroethane	ND	ND	41.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1-Dichloroethene	ND	ND	20.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1-Difluoroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,2,4-Trichlorobenzene	ND	ND	75.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,2,4-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,2-Dichloroethane	ND	ND	21.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,3,5-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,4-Dichlorobenzene	ND	ND	61.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,4-Dioxane (p-Dioxane)	ND	ND	36.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Benzene	ND	ND	16.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Bromodichloromethane	ND	ND	68.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Bromomethane	ND	ND	39.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Carbon Tetrachloride	ND	ND	13.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Chloroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Chloroform	ND	ND	25.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Chloromethane	ND	ND	21.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	cis-1,2-Dichloroethylene	ND	ND	40.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Dichlorodifluoromethane	ND	ND	50.0	NA	35	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 5 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

Jervis Webb Superfund Site_Spring 2015 Soil/Soil Gas Sampling Event
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JRVWB
Final SAP,RI/FS,Gilbane,2015
Field Duplicates for SDG: J1630072

Location	Analysis
JW-SB/SG07	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Ethylbenzene	ND	ND	22.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Isopropylbenzene (Cumene)	ND	ND	50.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	m,p-Xylene	ND	ND	44.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Methylene Chloride	ND	ND	35.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	n-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	n-Propylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Naphthalene	ND	ND	27.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	o-Xylene	ND	ND	22.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	sec-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Tetrachloroethene (PCE)	68.0	39.0	34.0	54.2	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Toluene	ND	ND	38.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	trans-1,2-Dichloroethene	ND	ND	40.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Trichloroethene (TCE)	180	240	27.0	28.6	35	OK	NA
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Trichlorofluoromethane	ND	ND	56.0	NA	35	NA	OK
SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Vinyl Chloride	ND	ND	13.0	NA	35	NA	OK

Location	Analysis
JW-SB/SG09	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1,1,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1,1-Trichloroethane	ND	ND	28.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1,2,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK

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Location	Analysis
JW-SB/SG09	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1,2-Trichloroethane	ND	ND	55.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1-Dichloroethane	ND	ND	41.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1-Dichloroethene	ND	ND	20.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1-Difluoroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,2,4-Trichlorobenzene	ND	ND	75.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,2,4-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,2-Dichloroethane	ND	ND	21.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,3,5-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,4-Dichlorobenzene	ND	ND	61.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,4-Dioxane (p-Dioxane)	ND	ND	36.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Benzene	ND	ND	16.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Bromodichloromethane	ND	ND	68.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Bromomethane	ND	ND	39.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Carbon Tetrachloride	ND	ND	13.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Chloroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Chloroform	ND	ND	25.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Chloromethane	ND	ND	21.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	cis-1,2-Dichloroethylene	ND	ND	40.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Dichlorodifluoromethane	ND	ND	50.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Ethylbenzene	ND	ND	22.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Isopropylbenzene (Cumene)	ND	ND	50.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	m,p-Xylene	ND	ND	44.0	NA	35	NA	OK

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Final SAP,RI/FS,Gilbane,2015
Field Duplicates for SDG: J1630072

Location	Analysis
JW-SB/SG09	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Methylene Chloride	ND	ND	35.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	n-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	n-Propylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Naphthalene	ND	ND	27.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	o-Xylene	ND	ND	22.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	sec-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Tetrachloroethene (PCE)	1000	1000	34.0	0.00	35	OK	NA
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Toluene	200	220	38.0	9.52	35	OK	NA
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	trans-1,2-Dichloroethene	ND	ND	40.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Trichloroethene (TCE)	3100	2800	27.0	10.2	35	OK	NA
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Trichlorofluoromethane	ND	ND	56.0	NA	35	NA	OK
SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Vinyl Chloride	ND	ND	13.0	NA	35	NA	OK

Location	Analysis
JW-SB/SG10	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1,1,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1,1-Trichloroethane	50.0	38.0	28.0	27.3	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1,2,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1,2-Trichloroethane	ND	ND	55.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1-Dichloroethane	ND	ND	41.0	NA	35	NA	OK

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Location **Analysis**

JW-SB/SG10 TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1-Dichloroethene	ND	ND	20.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1-Difluoroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,2,4-Trichlorobenzene	ND	ND	75.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,2,4-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,2-Dichloroethane	ND	ND	21.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,3,5-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,4-Dichlorobenzene	ND	ND	61.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,4-Dioxane (p-Dioxane)	ND	ND	36.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Benzene	ND	ND	16.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Bromodichloromethane	ND	ND	68.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Bromomethane	ND	ND	39.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Carbon Tetrachloride	ND	ND	13.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Chloroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Chloroform	ND	ND	25.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Chloromethane	ND	ND	21.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	cis-1,2-Dichloroethylene	ND	ND	40.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Dichlorodifluoromethane	ND	ND	50.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Ethylbenzene	ND	ND	22.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Isopropylbenzene (Cumene)	ND	ND	50.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	m,p-Xylene	ND	ND	44.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Methylene Chloride	ND	ND	35.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	n-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	n-Propylbenzene	ND	ND	50.0	NA	35	NA	OK

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RL Check = If either the primary sample or field duplicate result is less than 5 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

Jervis Webb Superfund Site_Spring 2015 Soil/Soil Gas Sampling Event
Field Duplicate Report By SDG
JRVWB
Final SAP,RI/FS,Gilbane,2015
Field Duplicates for SDG: J1630072

Location	Analysis
JW-SB/SG10	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Naphthalene	ND	ND	27.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	o-Xylene	ND	ND	22.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	sec-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Tetrachloroethene (PCE)	2900	2800	34.0	3.51	35	OK	NA
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Toluene	ND	ND	38.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	trans-1,2-Dichloroethene	ND	ND	40.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Trichloroethene (TCE)	290	250	27.0	14.8	35	OK	NA
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Trichlorofluoromethane	ND	ND	56.0	NA	35	NA	OK
SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Vinyl Chloride	ND	ND	13.0	NA	35	NA	OK

Location	Analysis
JW-SB/SG14	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1,1,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1,1-Trichloroethane	540	550	28.0	1.83	35	OK	NA
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1,2,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1,2-Trichloroethane	ND	ND	55.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1-Dichloroethane	ND	ND	41.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1-Dichloroethene	ND	ND	20.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1-Difluoroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,2,4-Trichlorobenzene	ND	ND	75.0	NA	35	NA	OK

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RPD = Relative Percent Difference

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Jervis Webb Superfund Site_Spring 2015 Soil/Soil Gas Sampling Event
Field Duplicate Report By SDG
JRVWB
Final SAP,RI/FS,Gilbane,2015
Field Duplicates for SDG: J1630072

Location **Analysis**

JW-SB/SG14 TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,2,4-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,2-Dichloroethane	ND	ND	21.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,3,5-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,4-Dichlorobenzene	ND	ND	61.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,4-Dioxane (p-Dioxane)	ND	ND	36.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Benzene	ND	18.0	16.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Bromodichloromethane	ND	ND	68.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Bromomethane	ND	ND	39.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Carbon Tetrachloride	ND	ND	13.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Chloroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Chloroform	ND	ND	25.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Chloromethane	ND	ND	21.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	cis-1,2-Dichloroethylene	ND	ND	40.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Dichlorodifluoromethane	ND	ND	50.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Ethylbenzene	ND	ND	22.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Isopropylbenzene (Cumene)	ND	ND	50.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	m,p-Xylene	ND	ND	44.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Methylene Chloride	ND	ND	35.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	n-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	n-Propylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Naphthalene	ND	ND	27.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	o-Xylene	ND	ND	22.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0	NA	35	NA	OK

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Jervis Webb Superfund Site_Spring 2015 Soil/Soil Gas Sampling Event
Field Duplicate Report By SDG
JRVWB
Final SAP,RI/FS,Gilbane,2015
Field Duplicates for SDG: J1630072

Location	Analysis
JW-SB/SG14	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	sec-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Tetrachloroethene (PCE)	13000	13000	34.0	0.00	35	OK	NA
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Toluene	ND	ND	38.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	trans-1,2-Dichloroethene	ND	ND	40.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Trichloroethene (TCE)	2100	1700	27.0	21.1	35	OK	NA
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Trichlorofluoromethane	ND	ND	56.0	NA	35	NA	OK
SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Vinyl Chloride	ND	ND	13.0	NA	35	NA	OK

Location	Analysis
JW-SB/SG17	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1,1,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1,1-Trichloroethane	260	250	28.0	3.92	35	OK	NA
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1,2,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1,2-Trichloroethane	ND	ND	55.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1-Dichloroethane	ND	ND	41.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1-Dichloroethene	97.0	98.0	20.0	1.03	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1-Difluoroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,2,4-Trichlorobenzene	ND	ND	75.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,2,4-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,2-Dichloroethane	ND	ND	21.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,3,5-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK

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Jervis Webb Superfund Site_Spring 2015 Soil/Soil Gas Sampling Event
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JRVWB
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Field Duplicates for SDG: J1630072

Location	Analysis
JW-SB/SG17	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,4-Dichlorobenzene	ND	ND	61.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,4-Dioxane (p-Dioxane)	ND	ND	36.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Benzene	24.0	28.0	16.0	15.4	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Bromodichloromethane	ND	ND	68.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Bromomethane	ND	ND	39.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Carbon Tetrachloride	ND	ND	13.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Chloroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Chloroform	ND	ND	25.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Chloromethane	ND	ND	21.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	cis-1,2-Dichloroethylene	ND	ND	40.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Dichlorodifluoromethane	ND	ND	50.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Ethylbenzene	ND	ND	22.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Isopropylbenzene (Cumene)	ND	ND	50.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	m,p-Xylene	ND	ND	44.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Methylene Chloride	ND	ND	35.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	n-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	n-Propylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Naphthalene	ND	ND	27.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	o-Xylene	ND	ND	22.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	sec-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Tetrachloroethene (PCE)	29000	19000	690	41.7	35	Out	NA
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Toluene	ND	ND	38.0	NA	35	NA	OK

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Location	Analysis
JW-SB/SG17	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	trans-1,2-Dichloroethene	ND	ND	40.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Trichloroethene (TCE)	5600	4600	27.0	19.6	35	OK	NA
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Trichlorofluoromethane	ND	ND	56.0	NA	35	NA	OK
SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Vinyl Chloride	ND	ND	13.0	NA	35	NA	OK

Location	Analysis
JW-SB/SG21	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1,1,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1,1-Trichloroethane	ND	ND	28.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1,2,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1,2-Trichloroethane	ND	ND	55.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1-Dichloroethane	ND	ND	41.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1-Dichloroethene	ND	ND	20.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1-Difluoroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,2,4-Trichlorobenzene	ND	ND	75.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,2,4-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,2-Dichloroethane	ND	ND	21.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,3,5-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,4-Dichlorobenzene	ND	ND	61.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,4-Dioxane (p-Dioxane)	ND	ND	36.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Benzene	ND	ND	16.0	NA	35	NA	OK

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Jervis Webb Superfund Site_Spring 2015 Soil/Soil Gas Sampling Event
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JRVWB
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Field Duplicates for SDG: J1630072

Location **Analysis**

JW-SB/SG21 TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Bromodichloromethane	ND	ND	68.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Bromomethane	ND	ND	39.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Carbon Tetrachloride	ND	ND	13.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Chloroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Chloroform	ND	ND	25.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Chloromethane	ND	ND	21.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	cis-1,2-Dichloroethylene	ND	ND	40.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Dichlorodifluoromethane	ND	ND	50.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Ethylbenzene	ND	ND	22.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Isopropylbenzene (Cumene)	ND	ND	50.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	m,p-Xylene	ND	ND	44.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Methylene Chloride	ND	ND	35.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	n-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	n-Propylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Naphthalene	ND	ND	27.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	o-Xylene	ND	ND	22.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	sec-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Tetrachloroethene (PCE)	1100	1000	34.0	9.52	35	OK	NA
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Toluene	ND	ND	38.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	trans-1,2-Dichloroethene	ND	ND	40.0	NA	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Trichloroethene (TCE)	79.0	88.0	27.0	10.8	35	NA	OK
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Trichlorofluoromethane	ND	ND	56.0	NA	35	NA	OK

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Jervis Webb Superfund Site_Spring 2015 Soil/Soil Gas Sampling Event
Field Duplicate Report By SDG
JRVWB
Final SAP,RI/FS,Gilbane,2015
Field Duplicates for SDG: J1630072

Location	Analysis
JW-SB/SG21	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Vinyl Chloride	ND	ND	13.0	NA	35	NA	OK

Location	Analysis
JW-SB/SG22	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1,1,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1,1-Trichloroethane	ND	ND	28.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1,2,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1,2-Trichloroethane	ND	ND	55.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1-Dichloroethane	ND	ND	41.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1-Dichloroethene	410	330	20.0	21.6	35	OK	NA
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1-Difluoroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,2,4-Trichlorobenzene	ND	ND	75.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,2,4-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,2-Dichloroethane	ND	ND	21.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,3,5-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,4-Dichlorobenzene	ND	ND	61.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,4-Dioxane (p-Dioxane)	ND	ND	36.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Benzene	27.0	ND	16.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Bromodichloromethane	ND	ND	68.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Bromomethane	ND	ND	39.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Carbon Tetrachloride	ND	ND	13.0	NA	35	NA	OK

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JRVWB
Final SAP,RI/FS,Gilbane,2015
Field Duplicates for SDG: J1630072

Location **Analysis**

JW-SB/SG22 TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Chloroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Chloroform	ND	ND	25.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Chloromethane	31.0	ND	21.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	cis-1,2-Dichloroethylene	1600	1400	40.0	13.3	35	OK	NA
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Dichlorodifluoromethane	ND	ND	50.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Ethylbenzene	ND	ND	22.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Isopropylbenzene (Cumene)	ND	ND	50.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	m,p-Xylene	ND	ND	44.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Methylene Chloride	ND	ND	35.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	n-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	n-Propylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Naphthalene	ND	ND	27.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	o-Xylene	ND	ND	22.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	sec-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Tetrachloroethene (PCE)	ND	ND	34.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Toluene	ND	ND	38.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	trans-1,2-Dichloroethene	200	180	40.0	10.5	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Trichloroethene (TCE)	1700	1700	27.0	0.00	35	OK	NA
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Trichlorofluoromethane	ND	ND	56.0	NA	35	NA	OK
SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Vinyl Chloride	75.0	47.0	13.0	45.9	35	NA	28.0

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Jervis Webb Superfund Site_Spring 2015 Soil/Soil Gas Sampling Event
Field Duplicate Report By SDG
JRVWB
Final SAP,RI/FS,Gilbane,2015
Field Duplicates for SDG: J1630072

Location	Analysis
JW-SB/SG26	TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1,1,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1,1-Trichloroethane	ND	ND	28.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1,2,2-Tetrachloroethane	ND	ND	70.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1,2-Trichloroethane	ND	ND	55.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1-Dichloroethane	ND	ND	41.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1-Dichloroethene	ND	ND	20.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1-Difluoroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,2,4-Trichlorobenzene	ND	ND	75.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,2,4-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,2-Dichloroethane	ND	ND	21.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,3,5-Trimethylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,4-Dichlorobenzene	ND	ND	61.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,4-Dioxane (p-Dioxane)	ND	ND	36.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Benzene	ND	ND	16.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Bromodichloromethane	ND	ND	68.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Bromomethane	ND	ND	39.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Carbon Tetrachloride	ND	ND	13.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Chloroethane	ND	ND	27.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Chloroform	ND	ND	25.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Chloromethane	ND	ND	21.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	cis-1,2-Dichloroethylene	ND	ND	40.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Dichlorodifluoromethane	ND	ND	50.0	NA	35	NA	OK

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Jervis Webb Superfund Site_Spring 2015 Soil/Soil Gas Sampling Event
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JRVWB
Final SAP,RI/FS,Gilbane,2015
Field Duplicates for SDG: J1630072

Location **Analysis**

JW-SB/SG26 TO15

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Ethylbenzene	ND	ND	22.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Isopropylbenzene (Cumene)	ND	ND	50.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	m,p-Xylene	ND	ND	44.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Methylene Chloride	ND	ND	35.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	n-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	n-Propylbenzene	ND	ND	50.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Naphthalene	ND	ND	27.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	o-Xylene	ND	ND	22.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	sec-Butylbenzene	ND	ND	28.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Tetrachloroethene (PCE)	230	170	34.0	30.0	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Toluene	ND	ND	38.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	trans-1,2-Dichloroethene	ND	ND	40.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Trichloroethene (TCE)	110	53.0	27.0	69.9	35	NA	57.0
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Trichlorofluoromethane	ND	ND	56.0	NA	35	NA	OK
SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Vinyl Chloride	ND	ND	13.0	NA	35	NA	OK

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Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
E503100-06	SB/SG16-15, 1PV	3/23/2015	GS-N	TO15	1,1,2-Trichloro-1,2,2-trifluoroethane	77000	J	77000 J		0.0	77	ug/m3	E
E503104-08	SB/SG17-15	3/24/2015	GS-N	TO15	Tetrachloroethene (PCE)	29000	J	29000 J		0.0	690	ug/m3	D5
E503104-09	SB/SG17-15 Rep	3/24/2015	GS-FD	TO15	Tetrachloroethene (PCE)	19000	J	19000 J		0.0	34	ug/m3	D5
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,1,1,2-Tetrachloroethane	ND	UJ	ND UJ	-	0.0	70	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,1,1-Trichloroethane	ND	UJ	ND UJ	-	0.0	28	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,1,2-Trichloroethane	ND	UJ	ND UJ	-	0.0	55	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,2,4-Trichlorobenzene	ND	UJ	ND UJ	-	0.0	75	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Trichloroethene (TCE)	280	J	280 J	-	0.0	27	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Dichlorodifluoromethane	ND	UJ	ND UJ	-	0.0	50	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Isopropylbenzene (Cumene)	ND	UJ	ND UJ	-	0.0	50	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Methylene Chloride	ND	UJ	ND UJ	-	0.0	35	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Naphthalene	ND	UJ	ND UJ	-	0.0	27	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	n-Propylbenzene	ND	UJ	ND UJ	-	0.0	50	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,1,2,2-Tetrachloroethane	ND	UJ	ND UJ	-	0.0	70	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Tetrachloroethene (PCE)	1600	J	1600 J	-	0.0	34	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Bromodichloromethane	ND	UJ	ND UJ	-	0.0	68	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Bromomethane	ND	UJ	ND UJ	-	0.0	39	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	n-Butylbenzene	ND	UJ	ND UJ	-	0.0	28	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	sec-Butylbenzene	ND	UJ	ND UJ	-	0.0	28	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	tert-Butylbenzene	ND	UJ	ND UJ	-	0.0	56	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Benzene	43.0	J	43.0 J	-	0.0	16	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Toluene	ND	UJ	ND UJ	-	0.0	38	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Chloroethane	ND	UJ	ND UJ	-	0.0	27	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Chloromethane	ND	UJ	ND UJ	-	0.0	21	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Carbon Tetrachloride	ND	UJ	ND UJ	-	0.0	13	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	p-Cymene (p-Isopropyltoluene)	ND	UJ	ND UJ	-	0.0	28	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,1-Dichloroethane	ND	UJ	ND UJ	-	0.0	41	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,2-Dichloroethane	ND	UJ	ND UJ	-	0.0	21	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,4-Dichlorobenzene	ND	UJ	ND UJ	-	0.0	61	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.0	20	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	cis-1,2-Dichloroethylene	ND	UJ	ND UJ	-	0.0	40	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.0	40	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,1-Difluoroethane	ND	UJ	ND UJ	-	0.0	27	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,4-Dioxane (p-Dioxane)	ND	UJ	ND UJ	-	0.0	36	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Ethylbenzene	ND	UJ	ND UJ	-	0.0	22	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Trichlorofluoromethane	ND	UJ	ND UJ	-	0.0	56	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	UJ	ND UJ	-	0.0	77	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Chloroform	ND	UJ	ND UJ	-	0.0	25	ug/m3	V

Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,2,4-Trimethylbenzene	ND	UJ	ND UJ	-	0.0	50	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	1,3,5-Trimethylbenzene	ND	UJ	ND UJ	-	0.0	50	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	Vinyl Chloride	ND	UJ	ND UJ	-	0.0	13	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	m,p-Xylene	ND	UJ	ND UJ	-	0.0	44	ug/m3	V
E503104-05	SB/SG18-15, 10PV	3/24/2015	GS-N	TO15	o-Xylene	ND	UJ	ND UJ	-	0.0	22	ug/m3	V
E504002-08	SB/SG22-25	4/1/2015	GS-N	TO15	Vinyl Chloride	75.0	J	75.0 J		0.0	13	ug/m3	D5
E504002-10	SB/SG22-25 Rep	4/1/2015	GS-FD	TO15	Vinyl Chloride	47.0	J	47.0 J		0.0	13	ug/m3	D5
E503146-07	SB/SG26-35	3/31/2015	GS-N	TO15	Trichloroethene (TCE)	110	J	110 J		0.0	27	ug/m3	D5
E503146-08	SB/SG26-35 Rep	3/31/2015	GS-FD	TO15	Trichloroethene (TCE)	53.0	J	53.0 J		0.0	27	ug/m3	D5

Matrix / Sample Type

Matrix	Matrix Description	Sample Code	Sample Code Description
GS	SOIL GAS	FD	Field Duplicate
GS	SOIL GAS	N	Normal Environmental Sample

Data Qualifier Definitions

Flag	Description
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Reason and Comment Code Definitions

Code	Description
D5	Field Duplicate RPD
E	Exceeds LinearCalibration Range
V	Sample Receipt Condition

H&P Reporting Limit Evaluation Table

Analyte	H&P RL	Units	Residential RSLs	Screening Level Residential* (attenuation factor 0.03)
1,1,1,2-Tetrachloroethane	70	ug/m^3	0.38	13
1,1,1-Trichloroethane	28	ug/m^3	5,200	17,3333
1,1,2,2-Tetrachloroethane	70	ug/m^3	0.048	2
1,1,2-Trichloro-1,2,2-trifluoroethane	77	ug/m^3	31,000	1,033,333
1,1,2-Trichloroethane	55	ug/m^3	0.18	6
1,1-Dichloroethane	41	ug/m^3	1.8	60
1,1-Dichloroethene	20	ug/m^3	210	7,000
1,1-Difluoroethane	27	ug/m^3	42,000	1,400,000
1,2,4-Trichlorobenzene	75	ug/m^3	2.1	70
1,2,4-Trimethylbenzene	50	ug/m^3	7.3	243
1,2-Dichloroethane	21	ug/m^3	0.11	4
1,3,5-Trimethylbenzene	50	ug/m^3	NE	NE
1,4-Dichlorobenzene	61	ug/m^3	0.26	9
1,4-Dioxane (p-Dioxane)	36	ug/m^3	0.56	19
Benzene	16	ug/m^3	0.36	12
Bromodichloromethane	68	ug/m^3	0.076	3
Bromomethane	39	ug/m^3	5.2	173
Carbon Tetrachloride	13	ug/m^3	0.47	16
Chloroethane	27	ug/m^3	10,000	333,333
Chloroform	25	ug/m^3	0.12	4
Chloromethane	21	ug/m^3	94	3,133
cis-1,2-Dichloroethylene	40	ug/m^3	NE	NE
Dichlorodifluoromethane	50	ug/m^3	100	3,333
Ethylbenzene	22	ug/m^3	1.1	37
Isopropylbenzene (Cumene)	50	ug/m^3	420	14,000
m,p-Xylene	44	ug/m^3	100	3,333

Analyte	H&P RL	Units	Residential RSLs	Screening Level Residential* (attenuation factor 0.03)
Methylene Chloride	35	ug/m^3	100	3,333
Naphthalene	27	ug/m^3	0.083	3
n-Butylbenzene	28	ug/m^3	NE	NE
n-Propylbenzene	50	ug/m^3	1,000	33,333
o-Xylene	22	ug/m^3	100	3,333
p-Cymene (p-Isopropyltoluene)	28	ug/m^3	NE	NE
sec-Butylbenzene	28	ug/m^3	NE	NE
tert-Butylbenzene	56	ug/m^3	NE	NE
Tetrachloroethene (PCE)	34	ug/m^3	NA[1]	133
Toluene	38	ug/m^3	5,200	173,333
trans-1,2-Dichloroethene	40	ug/m^3	NE	NE
Trichloroethene (TCE)	27	ug/m^3	0.48	16
Trichlorofluoromethane	56	ug/m^3	730	24,333
Vinyl Chloride	13	ug/m^3	0.17	6

* Based on USEPA Regional Screening Levels (RSL) for Air, Hazard Quotient = 1.0 (RSLs; January 2015) for Residential. Screening Limit is calculated using a default soil gas to indoor air attenuation factor of 0.03 for Residential obtained from Table 6-1 of US EPA Office of Solid Waste and Emergency Response (OSWER), Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air, June 2015.

ug/m^3 = micrograms per cubic meter

1,1-Difluoroethane is not a compound of concern, but was used as the leak check compounds, Results for this compound are reported for informational purposes only.

ATTACHMENT C

EPA TIER 3 VALIDATION REPORTS

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ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3
USEPA Region 9

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3
USEPA Region 9

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Project Manager
Environmental Services Assistance Team (ESAT) Region 9
ICF International

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106079

DATE: June 9, 2015

SUBJECT: Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B. Webb Co.
Site Account No.:	09 WR QB 00
Case No.:	45139
SDG No.:	Y9SN2
Laboratory:	CompuChem (LIBRTY)
Analysis:	Low Level Volatiles
Samples:	20 Soil Samples
Collection Date:	March 9 and 11, 2015
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Cynthia Gurley, CLP PO USEPA Region 4
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [ ] FYI [X] Action
SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - **Tier 3**

Case No.: 45139
SDG No.: Y9SN2
Site: Jervis B. Webb
Laboratory: CompuChem (LIBRTY)
Analysis: Low Level Volatiles
Reviewer: Santiago Lee, ESAT
Date: June 9, 2015

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guidelines (NFG) Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Collected
Equipment Blanks (EB):	Not Collected
Trip Blanks (TB):	Not Collected
Background Samples (BG):	Not Collected
Field Duplicates (D1):	Y9SN5 and Y9SN6
Field Duplicates (D2):	Y9SP5 and Y9SP6
Field Duplicates (D3):	Y9SP8 and Y9SP9

Tables

1A: Analytical Results with Qualifications
1B: Data Qualifier Definitions for Organic Data Review

CLP PO Action

Nondetected results for 1,4-dioxane in all samples, all method blanks, and the storage blank are qualified as rejected (R) due to low relative response factors (less than 0.0050) in the initial calibration (see Comment A).

Sampling Issues

Sample Y9SQ0 is not listed on the chain of custody records (COCs).

Additional Comments

The trichloroethene present in samples Y9SN5, Y9SN6, Y9SN7, Y9SN8, Y9SP8, Y9SQ0, Y9SQ1, Y9SQ2, and Y9SW9 and method blank VBLKNE was incorrectly reported as nondetected (i.e., false negatives). The laboratory submitted revised data (Form I and quantitation report) and mass spectra upon request, on 05/20/15 (see Table 1A for concentrations). The revised results have been entered into the EXES Data Manager. The laboratory indicates that there was a mass shift for trichloroethene (i.e., the quantitation ion shift from 95 to 96).

In addition to laboratory artifacts (retention times of 13.9 and 18.0 minutes), a tentatively identified compound (TIC) is found in samples Y9SN2, Y9SN6, Y9SN7, Y9SW9, and Y9SX0 (see attached Form 1Js).

The laboratory performed manual peak integration on chromatograms for some calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *Request for Quote (RFQ) for Modified Analysis*, Modification Reference Number: 2298.2, March 3, 2015;
- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	Yes	
2	GC/MS Tune/GC Performance	Yes	
3	Initial Calibration	No	A
4	Continuing Calibration Verification (CCV)	Yes	
5	Laboratory Blanks	Yes	C
6	Field Blanks	N/A	
7	Deuterated Monitoring Compounds (DMCs)	Yes	
8	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	Yes	
9	Internal Standards	Yes	
10	Compound Identification	Yes	
11	Compound Quantitation	Yes	B
12	System Performance	Yes	
13	Field Duplicate Sample Analysis	No	D

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Nondetected results for the following analyte are qualified as rejected due to low relative response factors (RRFs) in initial calibration and are flagged "R" in Table 1A.

- 1,4-Dioxane in all samples, all method blanks, and storage blank VHBLKYD.

The RRFs of 0.0037, 0.0048, and 0.0046 are reported for 1,4-dioxane in 5.0 µg/L, 100 µg/L, and 200 µg/L standards, respectively, of the initial calibration;

additionally, the average RRF is 0.0047. These values are below the 0.0050 validation criterion. Results listed above are considered unusable (R).

B. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

C. The following results are qualified as nondetected due to method blank and storage blank contamination and are flagged "U" in Table 1A.

- Acetone, trichloroethene, and toluene in samples Y9SP0, Y9SX1, and Y9SX2.
- Methylene chloride in samples Y9SN2, Y9SN6, Y9SP6 through Y9SQ0, Y9SQ2, and Y9SX0.

Acetone, trichloroethene, and toluene are present in method blank VBLKNE; methylene chloride is present in method blanks VBLKND and VBLKNG and storage blank VHBLKYD (see Table 1A for concentrations).

D. In the analysis of the field duplicate pairs, the following outlier (relative percent difference greater than 25%) is reported.

Analyte	Y9SN5 (D1) Concentration, µg/kg	Y9SN6 (D1) Concentration, µg/kg	RPD
Trichloroethene	1.5	8.8	142

The effect on data usability is not known.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9SN2 N/A Field_Sample Soil/Low 1.0 6.02 ug/kg			Y9SN3 N/A Field_Sample Soil/Low 1.0 6.55 ug/kg			Y9SN4 N/A Field_Sample Soil/Low 1.0 13.49 ug/kg			Y9SN5 (D1) N/A Field_Sample Soil/Low 1.0 9.81 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	4.7	U		5.5	U		4.9	U		5.3	U	
Chloromethane	4.7	U		5.5	U		4.9	U		5.3	U	
Vinyl chloride	4.7	U		5.5	U		4.9	U		5.3	U	
Bromomethane	4.7	U		5.5	U		4.9	U		5.3	U	
Chloroethane	4.7	U		5.5	U		4.9	U		5.3	U	
Trichlorofluoromethane	4.7	U		5.5	U		4.9	U		5.3	U	
1,1-Dichloroethene	4.7	U		5.5	U		4.9	U		5.3	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	U		5.5	U		4.9	U		5.3	U	
Acetone	6.6	J	B	7.8	J	B	5.2	J	B	4.5	J	B
Carbon disulfide	4.7	U		5.5	U		4.9	U		5.3	U	
Methyl acetate	4.7	U		5.5	U		4.9	U		5.3	U	
Methylene chloride	4.7	U	C	5.5	U		4.9	U		5.3	U	
trans-1,2-Dichloroethene	4.7	U		5.5	U		4.9	U		5.3	U	
Methyl tert-butyl ether	4.7	U		5.5	U		4.9	U		5.3	U	
1,1-Dichloroethane	4.7	U		5.5	U		4.9	U		5.3	U	
cis-1,2-Dichloroethene	4.7	U		5.5	U		4.9	U		5.3	U	
2-Butanone	9.5	U		11	U		9.9	U		11	U	
Bromochloromethane	4.7	U		5.5	U		4.9	U		5.3	U	
Chloroform	4.7	U		5.5	U		4.9	U		5.3	U	
1,1,1-Trichloroethane	4.7	U		5.5	U		4.9	U		5.3	U	
Cyclohexane	4.7	U		5.5	U		4.9	U		5.3	U	
Carbon tetrachloride	4.7	U		5.5	U		4.9	U		5.3	U	
Benzene	4.7	U		5.5	U		4.9	U		5.3	U	
1,2-Dichloroethane	4.7	U		5.5	U		4.9	U		5.3	U	
1,4-Dioxane	95	R	A	110	R	A	99	R	A	110	R	A

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SN2**			**Y9SN3**			**Y9SN4**			**Y9SN5 (D1)**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**6.02**			**6.55**			**13.49**			**9.81**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	4.7	U		5.5	U		4.9	U		1.5	J	B,D
Methylcyclohexane	4.7	U		5.5	U		4.9	U		5.3	U	
1,2-Dichloropropane	4.7	U		5.5	U		4.9	U		5.3	U	
Bromodichloromethane	4.7	U		5.5	U		4.9	U		5.3	U	
cis-1,3-Dichloropropene	4.7	U		5.5	U		4.9	U		5.3	U	
4-Methyl-2-pentanone	9.5	U		11	U		9.9	U		11	U	
Toluene	0.66	J	B	0.67	J	B	4.9	U		5.3	U	
trans-1,3-Dichloropropene	4.7	U		5.5	U		4.9	U		5.3	U	
1,1,2-Trichloroethane	4.7	U		5.5	U		4.9	U		5.3	U	
Tetrachloroethene	4.7	U		5.5	U		4.9	U		5.3	U	
2-Hexanone	9.5	U		11	U		9.9	U		11	U	
Dibromochloromethane	4.7	U		5.5	U		4.9	U		5.3	U	
1,2-Dibromoethane	4.7	U		5.5	U		4.9	U		5.3	U	
Chlorobenzene	4.7	U		5.5	U		4.9	U		5.3	U	
Ethylbenzene	4.7	U		5.5	U		4.9	U		5.3	U	
o-Xylene	4.7	U		5.5	U		4.9	U		5.3	U	
m,p-Xylene	4.7	U		5.5	U		4.9	U		5.3	U	
Styrene	4.7	U		5.5	U		4.9	U		5.3	U	
Bromoform	4.7	U		5.5	U		4.9	U		5.3	U	
Isopropylbenzene	4.7	U		5.5	U		4.9	U		5.3	U	
1,1,2,2-Tetrachloroethane	4.7	U		5.5	U		4.9	U		5.3	U	
1,3-Dichlorobenzene	4.7	U		5.5	U		4.9	U		5.3	U	
1,4-Dichlorobenzene	4.7	U		5.5	U		4.9	U		5.3	U	
1,2-Dichlorobenzene	4.7	U		5.5	U		4.9	U		5.3	U	
1,2-Dibromo-3-chloropropane	4.7	U		5.5	U		4.9	U		5.3	U	
1,2,4-Trichlorobenzene	4.7	U		5.5	U		4.9	U		5.3	U	
1,2,3-Trichlorobenzene	4.7	U		5.5	U		4.9	U		5.3	U	
1,2,3-Trichloropropane	4.7	U		5.5	U		4.9	U		5.3	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank; BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SN6 (D1)**			**Y9SN7**			**Y9SN8**			**Y9SP0**		
Location	**N/A**			**N/A**			**N/A**			**JW-SB10-2**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**20.88**			**19.93**			**7.47**			**5.74**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	5.8	U		5.4	U		5.3	U		5.5	U	
Chloromethane	5.8	U		5.4	U		5.3	U		5.5	U	
Vinyl chloride	5.8	U		5.4	U		5.3	U		5.5	U	
Bromomethane	5.8	U		5.4	U		5.3	U		5.5	U	
Chloroethane	5.8	U		5.4	U		5.3	U		5.5	U	
Trichlorofluoromethane	5.8	U		5.4	U		5.3	U		5.5	U	
1,1-Dichloroethene	5.8	U		5.4	U		5.3	U		5.5	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U		5.4	U		5.3	U		5.5	U	
Acetone	7.4	J	B	6.2	J	B	5.8	J	B	11	U	C
Carbon disulfide	5.8	U		5.4	U		5.3	U		5.5	U	
Methyl acetate	5.8	U		5.4	U		5.3	U		5.5	U	
Methylene chloride	5.8	U	C	5.4	U		5.3	U		5.5	U	
trans-1,2-Dichloroethene	5.8	U		5.4	U		5.3	U		5.5	U	
Methyl tert-butyl ether	5.8	U		5.4	U		5.3	U		5.5	U	
1,1-Dichloroethane	5.8	U		5.4	U		5.3	U		5.5	U	
cis-1,2-Dichloroethene	5.8	U		5.4	U		5.3	U		5.5	U	
2-Butanone	12	U		11	U		11	U		11	U	
Bromochloromethane	5.8	U		5.4	U		5.3	U		5.5	U	
Chloroform	5.8	U		5.4	U		5.3	U		5.5	U	
1,1,1-Trichloroethane	5.8	U		5.4	U		5.3	U		5.5	U	
Cyclohexane	5.8	U		5.4	U		5.3	U		5.5	U	
Carbon tetrachloride	5.8	U		5.4	U		5.3	U		5.5	U	
Benzene	5.8	U		5.4	U		5.3	U		5.5	U	
1,2-Dichloroethane	5.8	U		5.4	U		5.3	U		5.5	U	
1,4-Dioxane	120	R	A	110	R	A	110	R	A	110	R	A

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SN6 (D1)**			**Y9SN7**			**Y9SN8**			**Y9SP0**		
Location	**N/A**			**N/A**			**N/A**			**JW-SB10-2**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**20.88**			**19.93**			**7.47**			**5.74**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	8.8		D	11			9.4			5.5	U	C
Methylcyclohexane	5.8	U		5.4	U		5.3	U		5.5	U	
1,2-Dichloropropane	5.8	U		5.4	U		5.3	U		5.5	U	
Bromodichloromethane	5.8	U		5.4	U		5.3	U		5.5	U	
cis-1,3-Dichloropropene	5.8	U		5.4	U		5.3	U		5.5	U	
4-Methyl-2-pentanone	12	U		11	U		11	U		11	U	
Toluene	5.8	U		5.4	U		5.3	U		5.5	U	C
trans-1,3-Dichloropropene	5.8	U		5.4	U		5.3	U		5.5	U	
1,1,2-Trichloroethane	5.8	U		5.4	U		5.3	U		5.5	U	
Tetrachloroethene	5.8	U		5.4	U		5.3	U		5.5	U	
2-Hexanone	12	U		11	U		11	U		11	U	
Dibromochloromethane	5.8	U		5.4	U		5.3	U		5.5	U	
1,2-Dibromoethane	5.8	U		5.4	U		5.3	U		5.5	U	
Chlorobenzene	5.8	U		5.4	U		5.3	U		5.5	U	
Ethylbenzene	5.8	U		5.4	U		5.3	U		5.5	U	
o-Xylene	5.8	U		5.4	U		5.3	U		5.5	U	
m,p-Xylene	5.8	U		5.4	U		5.3	U		5.5	U	
Styrene	5.8	U		5.4	U		5.3	U		5.5	U	
Bromoform	5.8	U		5.4	U		5.3	U		5.5	U	
Isopropylbenzene	5.8	U		5.4	U		5.3	U		5.5	U	
1,1,2,2-Tetrachloroethane	5.8	U		5.4	U		5.3	U		5.5	U	
1,3-Dichlorobenzene	5.8	U		5.4	U		5.3	U		5.5	U	
1,4-Dichlorobenzene	5.8	U		5.4	U		5.3	U		5.5	U	
1,2-Dichlorobenzene	5.8	U		5.4	U		5.3	U		5.5	U	
1,2-Dibromo-3-chloropropane	5.8	U		5.4	U		5.3	U		5.5	U	
1,2,4-Trichlorobenzene	5.8	U		5.4	U		5.3	U		5.5	U	
1,2,3-Trichlorobenzene	5.8	U		5.4	U		5.3	U		5.5	U	
1,2,3-Trichloropropane	5.8	U		5.4	U		5.3	U		5.5	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SP5 (D2)**			**Y9SP6 (D2)**			**Y9SP7**			**Y9SP8 (D3)**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**7.91**			**7.71**			**6.84**			**13.74**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	5.8	U		5.7	U		6.3	U		5.4	U	
Chloromethane	5.8	U		5.7	U		6.3	U		5.4	U	
Vinyl chloride	5.8	U		5.7	U		6.3	U		5.4	U	
Bromomethane	5.8	U		5.7	U		6.3	U		5.4	U	
Chloroethane	5.8	U		5.7	U		6.3	U		5.4	U	
Trichlorofluoromethane	5.8	U		5.7	U		6.3	U		5.4	U	
1,1-Dichloroethene	5.8	U		5.7	U		6.3	U		5.4	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U		5.7	U		6.3	U		5.4	U	
Acetone	6.9	J	B	3.9	J	B	6.5	J	B	7.1	J	B
Carbon disulfide	5.8	U		5.7	U		6.3	U		5.4	U	
Methyl acetate	5.8	U		5.7	U		6.3	U		5.4	U	
Methylene chloride	5.8	U		5.7	U	C	6.3	U	C	5.4	U	C
trans-1,2-Dichloroethene	5.8	U		5.7	U		6.3	U		5.4	U	
Methyl tert-butyl ether	5.8	U		5.7	U		6.3	U		5.4	U	
1,1-Dichloroethane	5.8	U		5.7	U		6.3	U		5.4	U	
cis-1,2-Dichloroethene	5.8	U		5.7	U		6.3	U		5.4	U	
2-Butanone	12	U		11	U		13	U		11	U	
Bromochloromethane	5.8	U		5.7	U		6.3	U		5.4	U	
Chloroform	5.8	U		5.7	U		6.3	U		5.4	U	
1,1,1-Trichloroethane	5.8	U		5.7	U		6.3	U		5.4	U	
Cyclohexane	5.8	U		5.7	U		6.3	U		5.4	U	
Carbon tetrachloride	5.8	U		5.7	U		6.3	U		5.4	U	
Benzene	5.8	U		5.7	U		6.3	U		5.4	U	
1,2-Dichloroethane	5.8	U		5.7	U		6.3	U		5.4	U	
1,4-Dioxane	120	R	A	110	R	A	130	R	A	110	R	A

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SP5 (D2)**			**Y9SP6 (D2)**			**Y9SP7**			**Y9SP8 (D3)**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**7.91**			**7.71**			**6.84**			**13.74**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	5.8	U		5.7	U		6.3	U		0.87	J	B
Methylcyclohexane	5.8	U		5.7	U		6.3	U		5.4	U	
1,2-Dichloropropane	5.8	U		5.7	U		6.3	U		5.4	U	
Bromodichloromethane	5.8	U		5.7	U		6.3	U		5.4	U	
cis-1,3-Dichloropropene	5.8	U		5.7	U		6.3	U		5.4	U	
4-Methyl-2-pentanone	12	U		11	U		13	U		11	U	
Toluene	5.8	U		5.7	U		6.3	U		5.4	U	
trans-1,3-Dichloropropene	5.8	U		5.7	U		6.3	U		5.4	U	
1,1,2-Trichloroethane	5.8	U		5.7	U		6.3	U		5.4	U	
Tetrachloroethene	5.8	U		5.7	U		6.3	U		5.4	U	
2-Hexanone	12	U		11	U		13	U		11	U	
Dibromochloromethane	5.8	U		5.7	U		6.3	U		5.4	U	
1,2-Dibromoethane	5.8	U		5.7	U		6.3	U		5.4	U	
Chlorobenzene	5.8	U		5.7	U		6.3	U		5.4	U	
Ethylbenzene	5.8	U		5.7	U		6.3	U		5.4	U	
o-Xylene	5.8	U		5.7	U		6.3	U		5.4	U	
m,p-Xylene	5.8	U		5.7	U		6.3	U		5.4	U	
Styrene	5.8	U		5.7	U		6.3	U		5.4	U	
Bromoform	5.8	U		5.7	U		6.3	U		5.4	U	
Isopropylbenzene	5.8	U		5.7	U		6.3	U		5.4	U	
1,1,2,2-Tetrachloroethane	5.8	U		5.7	U		6.3	U		5.4	U	
1,3-Dichlorobenzene	5.8	U		5.7	U		6.3	U		5.4	U	
1,4-Dichlorobenzene	5.8	U		5.7	U		6.3	U		5.4	U	
1,2-Dichlorobenzene	5.8	U		5.7	U		6.3	U		5.4	U	
1,2-Dibromo-3-chloropropane	5.8	U		5.7	U		6.3	U		5.4	U	
1,2,4-Trichlorobenzene	5.8	U		5.7	U		6.3	U		5.4	U	
1,2,3-Trichlorobenzene	5.8	U		5.7	U		6.3	U		5.4	U	
1,2,3-Trichloropropane	5.8	U		5.7	U		6.3	U		5.4	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank; BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SP9 (D3)**			**Y9SQ0**			**Y9SQ1**			**Y9SQ2**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**13.88**			**19.57**			**15.44**			**6.19**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	5.4	U		5.3	U		5.2	U		4.9	U	
Chloromethane	5.4	U		5.3	U		5.2	U		4.9	U	
Vinyl chloride	5.4	U		5.3	U		5.2	U		4.9	U	
Bromomethane	5.4	U		5.3	U		5.2	U		4.9	U	
Chloroethane	5.4	U		5.3	U		5.2	U		4.9	U	
Trichlorofluoromethane	5.4	U		5.3	U		5.2	U		4.9	U	
1,1-Dichloroethene	5.4	U		5.3	U		5.2	U		4.9	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U		5.3	U		5.2	U		4.9	U	
Acetone	7.3	J	B	6.6	J	B	9.2	J	B	6.5	J	B
Carbon disulfide	5.4	U		5.3	U		5.2	U		4.9	U	
Methyl acetate	5.4	U		5.3	U		5.2	U		4.9	U	
Methylene chloride	5.4	U	C	5.3	U	C	5.2	U		4.9	U	C
trans-1,2-Dichloroethene	5.4	U		5.3	U		5.2	U		4.9	U	
Methyl tert-butyl ether	5.4	U		5.3	U		5.2	U		4.9	U	
1,1-Dichloroethane	5.4	U		5.3	U		5.2	U		4.9	U	
cis-1,2-Dichloroethene	5.4	U		5.3	U		5.2	U		4.9	U	
2-Butanone	11	U		11	U		10	U		9.9	U	
Bromochloromethane	5.4	U		5.3	U		5.2	U		4.9	U	
Chloroform	5.4	U		5.3	U		5.2	U		4.9	U	
1,1,1-Trichloroethane	5.4	U		5.3	U		5.2	U		4.9	U	
Cyclohexane	5.4	U		5.3	U		5.2	U		4.9	U	
Carbon tetrachloride	5.4	U		5.3	U		5.2	U		4.9	U	
Benzene	5.4	U		5.3	U		5.2	U		4.9	U	
1,2-Dichloroethane	5.4	U		5.3	U		5.2	U		4.9	U	
1,4-Dioxane	110	R	A	110	R	A	100	R	A	99	R	A

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SP9 (D3)**			**Y9SQ0**			**Y9SQ1**			**Y9SQ2**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**13.88**			**19.57**			**15.44**			**6.19**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	5.4	U		0.46	J	B	3.9	J	B	10		
Methylcyclohexane	5.4	U		5.3	U		5.2	U		4.9	U	
1,2-Dichloropropane	5.4	U		5.3	U		5.2	U		4.9	U	
Bromodichloromethane	5.4	U		5.3	U		5.2	U		4.9	U	
cis-1,3-Dichloropropene	5.4	U		5.3	U		5.2	U		4.9	U	
4-Methyl-2-pentanone	11	U		11	U		10	U		9.9	U	
Toluene	0.50	J	B	5.3	U		5.2	U		4.9	U	
trans-1,3-Dichloropropene	5.4	U		5.3	U		5.2	U		4.9	U	
1,1,2-Trichloroethane	5.4	U		5.3	U		5.2	U		4.9	U	
Tetrachloroethene	5.4	U		5.3	U		5.2	U		4.9	U	
2-Hexanone	11	U		11	U		10	U		9.9	U	
Dibromochloromethane	5.4	U		5.3	U		5.2	U		4.9	U	
1,2-Dibromoethane	5.4	U		5.3	U		5.2	U		4.9	U	
Chlorobenzene	5.4	U		5.3	U		5.2	U		4.9	U	
Ethylbenzene	5.4	U		5.3	U		5.2	U		4.9	U	
o-Xylene	5.4	U		5.3	U		5.2	U		4.9	U	
m,p-Xylene	5.4	U		5.3	U		5.2	U		4.9	U	
Styrene	5.4	U		5.3	U		5.2	U		4.9	U	
Bromoform	5.4	U		5.3	U		5.2	U		4.9	U	
Isopropylbenzene	5.4	U		5.3	U		5.2	U		4.9	U	
1,1,2,2-Tetrachloroethane	5.4	U		5.3	U		5.2	U		4.9	U	
1,3-Dichlorobenzene	5.4	U		5.3	U		5.2	U		4.9	U	
1,4-Dichlorobenzene	5.4	U		5.3	U		5.2	U		4.9	U	
1,2-Dichlorobenzene	5.4	U		5.3	U		5.2	U		4.9	U	
1,2-Dibromo-3-chloropropane	5.4	U		5.3	U		5.2	U		4.9	U	
1,2,4-Trichlorobenzene	5.4	U		5.3	U		5.2	U		4.9	U	
1,2,3-Trichlorobenzene	5.4	U		5.3	U		5.2	U		4.9	U	
1,2,3-Trichloropropane	5.4	U		5.3	U		5.2	U		4.9	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank; BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SW9**			**Y9SX0**			**Y9SX1**			**Y9SX2**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**11.48**			**7.06**			**11.18**			**22.42**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	5.3	U		6.0	U		5.0	U		5.9	U	
Chloromethane	5.3	U		6.0	U		5.0	U		5.9	U	
Vinyl chloride	5.3	U		6.0	U		5.0	U		5.9	U	
Bromomethane	5.3	U		6.0	U		5.0	U		5.9	U	
Chloroethane	5.3	U		6.0	U		5.0	U		5.9	U	
Trichlorofluoromethane	5.3	U		6.0	U		5.0	U		5.9	U	
1,1-Dichloroethene	5.3	U		6.0	U		5.0	U		5.9	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U		6.0	U		5.0	U		5.9	U	
Acetone	8.8	J	B	8.8	J	B	9.9	U	C	12	U	C
Carbon disulfide	5.3	U		6.0	U		5.0	U		5.9	U	
Methyl acetate	5.3	U		6.0	U		5.0	U		5.9	U	
Methylene chloride	5.3	U		6.0	U	C	5.0	U		5.9	U	
trans-1,2-Dichloroethene	5.3	U		6.0	U		5.0	U		5.9	U	
Methyl tert-butyl ether	5.3	U		6.0	U		5.0	U		5.9	U	
1,1-Dichloroethane	5.3	U		6.0	U		5.0	U		5.9	U	
cis-1,2-Dichloroethene	5.3	U		6.0	U		5.0	U		5.9	U	
2-Butanone	11	U		12	U		9.9	U		12	U	
Bromochloromethane	5.3	U		6.0	U		5.0	U		5.9	U	
Chloroform	5.3	U		6.0	U		5.0	U		5.9	U	
1,1,1-Trichloroethane	5.3	U		6.0	U		5.0	U		5.9	U	
Cyclohexane	5.3	U		6.0	U		5.0	U		5.9	U	
Carbon tetrachloride	5.3	U		6.0	U		5.0	U		5.9	U	
Benzene	5.3	U		6.0	U		5.0	U		5.9	U	
1,2-Dichloroethane	5.3	U		6.0	U		5.0	U		5.9	U	
1,4-Dioxane	110	R	A	120	R	A	99	R	A	120	R	A

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SW9**			**Y9SX0**			**Y9SX1**			**Y9SX2**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**11.48**			**7.06**			**11.18**			**22.42**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	0.95	J	B	6.0	U		5.0	U	C	5.9	U	C
Methylcyclohexane	5.3	U		6.0	U		5.0	U		5.9	U	
1,2-Dichloropropane	5.3	U		6.0	U		5.0	U		5.9	U	
Bromodichloromethane	5.3	U		6.0	U		5.0	U		5.9	U	
cis-1,3-Dichloropropene	5.3	U		6.0	U		5.0	U		5.9	U	
4-Methyl-2-pentanone	11	U		12	U		9.9	U		12	U	
Toluene	0.61	J	B	6.0	U		5.0	U	C	5.9	U	C
trans-1,3-Dichloropropene	5.3	U		6.0	U		5.0	U		5.9	U	
1,1,2-Trichloroethane	5.3	U		6.0	U		5.0	U		5.9	U	
Tetrachloroethene	5.3	U		6.0	U		5.0	U		5.9	U	
2-Hexanone	11	U		12	U		9.9	U		12	U	
Dibromochloromethane	5.3	U		6.0	U		5.0	U		5.9	U	
1,2-Dibromoethane	5.3	U		6.0	U		5.0	U		5.9	U	
Chlorobenzene	5.3	U		6.0	U		5.0	U		5.9	U	
Ethylbenzene	5.3	U		6.0	U		5.0	U		5.9	U	
o-Xylene	5.3	U		6.0	U		5.0	U		5.9	U	
m,p-Xylene	5.3	U		6.0	U		5.0	U		5.9	U	
Styrene	5.3	U		6.0	U		5.0	U		5.9	U	
Bromoform	5.3	U		6.0	U		5.0	U		5.9	U	
Isopropylbenzene	5.3	U		6.0	U		5.0	U		5.9	U	
1,1,2,2-Tetrachloroethane	5.3	U		6.0	U		5.0	U		5.9	U	
1,3-Dichlorobenzene	5.3	U		6.0	U		5.0	U		5.9	U	
1,4-Dichlorobenzene	5.3	U		6.0	U		5.0	U		5.9	U	
1,2-Dichlorobenzene	5.3	U		6.0	U		5.0	U		5.9	U	
1,2-Dibromo-3-chloropropane	5.3	U		6.0	U		5.0	U		5.9	U	
1,2,4-Trichlorobenzene	5.3	U		6.0	U		5.0	U		5.9	U	
1,2,3-Trichlorobenzene	5.3	U		6.0	U		5.0	U		5.9	U	
1,2,3-Trichloropropane	5.3	U		6.0	U		5.0	U		5.9	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank; BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	VBLKND			VBLKNE			VBLKNG			VHBLKYD		
Location												
Type	Method_Blank			Method_Blank			Method_Blank			Storage_Blank		
Matrix/Level	Soil/Low			Soil/Low			Soil/Low			Soil/Low		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	0			0			0			0		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	5.0	U		5.0	U		5.0	U		5.0	U	
Chloromethane	5.0	U		5.0	U		5.0	U		5.0	U	
Vinyl chloride	5.0	U		5.0	U		5.0	U		5.0	U	
Bromomethane	5.0	U		5.0	U		5.0	U		5.0	U	
Chloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
Trichlorofluoromethane	5.0	U		5.0	U		5.0	U		5.0	U	
1,1-Dichloroethene	5.0	U		5.0	U		5.0	U		5.0	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U		5.0	U		5.0	U		5.0	U	
Acetone	10	U		4.0	J	B	10	U		10	U	
Carbon disulfide	5.0	U		5.0	U		5.0	U		5.0	U	
Methyl acetate	5.0	U		5.0	U		5.0	U		5.0	U	
Methylene chloride	0.65	J	B	5.0	U		1.3	J	B	0.78	J	B
trans-1,2-Dichloroethene	5.0	U		5.0	U		5.0	U		5.0	U	
Methyl tert-butyl ether	5.0	U		5.0	U		5.0	U		5.0	U	
1,1-Dichloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
cis-1,2-Dichloroethene	5.0	U		5.0	U		5.0	U		5.0	U	
2-Butanone	10	U		10	U		10	U		10	U	
Bromochloromethane	5.0	U		5.0	U		5.0	U		5.0	U	
Chloroform	5.0	U		5.0	U		5.0	U		5.0	U	
1,1,1-Trichloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
Cyclohexane	5.0	U		5.0	U		5.0	U		5.0	U	
Carbon tetrachloride	5.0	U		5.0	U		5.0	U		5.0	U	
Benzene	5.0	U		5.0	U		5.0	U		5.0	U	
1,2-Dichloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
1,4-Dioxane	100	R	A	100	R	A	100	R	A	100	R	A

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VBLKND Method_Blank Soil/Low 1.0 0 ug/kg			VBLKNE Method_Blank Soil/Low 1.0 0 ug/kg			VBLKNG Method_Blank Soil/Low 1.0 0 ug/kg			VHBLKYD Storage_Blank Soil/Low 1.0 0 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	5.0	U		1.1	J	B	5.0	U		5.0	U	
Methylcyclohexane	5.0	U		5.0	U		5.0	U		5.0	U	
1,2-Dichloropropane	5.0	U		5.0	U		5.0	U		5.0	U	
Bromodichloromethane	5.0	U		5.0	U		5.0	U		5.0	U	
cis-1,3-Dichloropropene	5.0	U		5.0	U		5.0	U		5.0	U	
4-Methyl-2-pentanone	10	U		10	U		10	U		10	U	
Toluene	5.0	U		0.54	J	B	5.0	U		5.0	U	
trans-1,3-Dichloropropene	5.0	U		5.0	U		5.0	U		5.0	U	
1,1,2-Trichloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
Tetrachloroethene	5.0	U		5.0	U		5.0	U		5.0	U	
2-Hexanone	10	U		10	U		10	U		10	U	
Dibromochloromethane	5.0	U		5.0	U		5.0	U		5.0	U	
1,2-Dibromoethane	5.0	U		5.0	U		5.0	U		5.0	U	
Chlorobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
Ethylbenzene	5.0	U		5.0	U		5.0	U		5.0	U	
o-Xylene	5.0	U		5.0	U		5.0	U		5.0	U	
m,p-Xylene	5.0	U		5.0	U		5.0	U		5.0	U	
Styrene	5.0	U		5.0	U		5.0	U		5.0	U	
Bromoform	5.0	U		5.0	U		5.0	U		5.0	U	
Isopropylbenzene	5.0	U		5.0	U		5.0	U		5.0	U	
1,1,2,2-Tetrachloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
1,3-Dichlorobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
1,4-Dichlorobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
1,2-Dichlorobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
1,2-Dibromo-3-chloropropane	5.0	U		5.0	U		5.0	U		5.0	U	
1,2,4-Trichlorobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
1,2,3-Trichlorobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
1,2,3-Trichloropropane	5.0	U		5.0	U		5.0	U		5.0	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank; BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SN2

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: 2298.2 SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-01

Sample wt/vol: 5.62 (g/mL) g Lab File ID: 1503023-0191.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/10/2015

% Moisture: not dec. 6 Date Analyzed: 03/16/2015

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		~~Unknown-01~~ Dichlorofluoroethane	8.03	6.1	JN
02					
03					
04		SL 5/9/15.			
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: Y9SN6

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: 2298.2 SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-05

Sample wt/vol: 5.46 (g/mL) g Lab File ID: 1503023-0591.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/10/2015

% Moisture: not dec. 21 Date Analyzed: 03/16/2015

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		~~Unknown-01~~ Dichlorofluoromethane	8.04	9.6	JN
02					
03					
04		SL 5/9/15.			
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796	Total Alkanes	N/A		

EPA-designated Registry Number.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: Y9SN7

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: 2298.2 SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-06

Sample wt/vol: 5.82 (g/mL) g Lab File ID: 1503023-0691.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/10/2015

% Moisture: not dec. 20 Date Analyzed: 03/16/2015

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		~~Unknown 01~~ Dichlorofluoroethane	8.04	5.4	JN
02		~~Unknown 02~~	~~13.91~~	~~58~~	~~JB~~
03					
04					
05		SL, 5/9/15			
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SW9

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: 2298.2 SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-16

Sample wt/vol: 5.36 (g/mL) g Lab File ID: 1503023-1691.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/10/2015

% Moisture: not dec. 11 Date Analyzed: 03/17/2015

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		~~Unknown-01~~ Dichlorofluoroethane	8.03	6.9	J N
02	~~98-83-9~~	~~alpha- Methylstyrene~~	~~18.02~~	~~13~~	~~J B~~
03					
04					
05		SL, 5/9/15			
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SX0

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: 2298.2 SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-17

Sample wt/vol: 4.52 (g/mL) g Lab File ID: 1503023-1791.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/10/2015

% Moisture: not dec. 7 Date Analyzed: 03/17/2015

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		~~Unknown 01~~ Dichlorodifluoroethane	8.03	6.9	J/V
02		~~Unknown 02~~	~~18.02~~	~~0.9~~	~~J B~~
03					
04					
05		SL, 3/9/15			
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3
USEPA Region 9

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3
USEPA Region 9

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Project Manager
Environmental Services Assistance Team (ESAT) Region 9
ICF International

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106079

DATE: June 9, 2015

SUBJECT: Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B. Webb Co.
Site Account No.:	09 WR QB 00
Case No.:	45139
SDG No.:	Y9SN2
Laboratory:	CompuChem (LIBRTY)
Analysis:	Semivolatiles
Samples:	20 Soil Samples
Collection Date:	March 9 and 11, 2015
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated; the dynamic deliverables will be regenerated upon completion of review for the other analyses.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Cynthia Gurley, CLP PO USEPA Region 4
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action
SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - **Tier 3**

Case No.: 45139
SDG No.: Y9SN2
Site: Jervis B. Webb
Laboratory: CompuChem (LIBRTY)
Analysis: Semivolatiles
Reviewer: Santiago Lee, ESAT
Date: June 9, 2015

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guidelines (NFG) Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Collected
Equipment Blanks (EB):	Not Collected
Background Samples (BG):	Not Collected
Field Duplicates (D1):	Y9SN5 and Y9SN6
Field Duplicates (D2):	Y9SP5 and Y9SP6
Field Duplicates (D3):	Y9SP8 and Y9SP9

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

Sample Y9SQ0 is not listed on the chain of custody records (COCs).

Additional Comments

The benzo(b)fluoranthene present in sample Y9SN3 was incorrectly reported as nondetected (i.e., a false negatives). The laboratory submitted revised data (Form I and quantitation report) and mass spectra upon request, on 06/01/15 (see Table 1A for concentration). The revised result has been entered into the EXES Data Manager.

The extract for sample Y9SN2 was analyzed at a 10-fold dilution due to a hydrocarbon matrix. The quantitation limits for Y9SN2 in Table 1A have been raised to account for the dilution.

In addition to laboratory artifacts (retention times of 16.6, 17.5, and 27.0 minutes), tentatively identified compounds (TICs) are found in field samples Y9SN2 through Y9SN5, Y9SN7, Y9SP0, Y9SP5 through Y9SP9, Y9SQ1, Y9SQ2, and Y9SX0 through Y9SX2 (see attached Form 1Ks).

The laboratory performed manual peak integration on chromatograms for some calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	Yes	
2	GC/MS Tune/GC Performance	Yes	
3	Initial Calibration	No	C
4	Continuing Calibration Verification (CCV)	No	D
5	Laboratory Blanks	Yes	B
6	Field Blanks	N/A	
7	Deuterated Monitoring Compounds (DMCs)	No	E
8	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	Yes	
9	Internal Standards	Yes	
10	GPC Performance Check	Yes	
11	Compound Identification	Yes	
12	Compound Quantitation	Yes	A
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	No	F

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The following result is qualified as nondetected due to method blank contamination and is flagged "U" in Table 1A.

- Acetophenone in sample Y9SP0.

Acetophenone is present in method blank SBLKSB (see Table 1A for concentration).

C. Results for the following analyte are qualified as estimated due to a large percent relative standard deviation (%RSD) in initial calibration and are flagged "UJ" in Table 1A.

- Pentachlorophenol in samples Y9SN2, Y9SP5, Y9SP6, Y9SQ1, Y9SW9, and Y9SX0.

A %RSD of 35.5% is reported for pentachlorophenol in the 03/19/15 initial calibration, which exceeds the 20.0% validation criterion. In addition, the relative response factor (RRF) for CRQL standard (at 10 µg/L) of 0.053 is below the average RRF of 0.091, indicating low sensitivity at the CRQL.

D. Results for the following analyte are qualified as estimated due to a large percent difference (%D) in associated CCV and are flagged "UJ" in Table 1A.

- Pentachlorophenol in samples Y9SP8, Y9SP9, Y9SQ0, Y9SQ2, Y9SX1, and Y9SX2.

A %D of -30.7% is reported for pentachlorophenol in the 03/17/15 19:22 CCV, which exceeds the ±25.0% validation criterion for opening CCVs.

E. Nondetected results for the following analytes are qualified as estimated due to low DMC recoveries and are flagged "UJ" in Table 1A.

{4-Methylphenol-d8}
- 2-Methylphenol, 4-methylphenol, and 2,4-dimethylphenol in samples Y9SN7, Y9SP7, Y9SP8, Y9SP9, Y9SQ1, and Y9SX0.

The DMC recoveries outside QC limits are shown below.

Sample	DMC	% Recovery	QC Limit
Y9SN7	4-Methylphenol-d8	5	8-100
Y9SP7	4-Methylphenol-d8	2	8-100
Y9SP8	4-Methylphenol-d8	2	8-100
Y9SP9	4-Methylphenol-d8	7	8-100
Y9SQ1	4-Methylphenol-d8	1	8-100
Y9SX0	4-Methylphenol-d8	4	8-100

Since qualified results are nondetected, false negatives may exist. Samples listed above were not re-extracted.

The reviewer notes that the following DMC recoveries are above the lower acceptance limit but below 10%:
(1) 4-Methylphenol-d8 in samples Y9SP0 (8%) and Y9SW9 (8%) and
(2) 4-Chloroaniline-d4 in samples Y9SN3 (7%), Y9SP0 (1%), Y9SP5 (6%), Y9SP6 (4%), Y9SP7 (6%), Y9SW9 (4%), Y9SQ1 (3%), and Y9SX0 (9%).
False negatives may exist for the nondetected results of associated analytes in the samples listed above. Analytes associated with the DMC 4-chloroaniline-d4 are 4-chloroaniline, hexachlorocyclopentadiene, and 3,3'-dichlorobenzidine.

F. In the analysis of the field duplicate pairs, the following outlier (relative percent difference greater than 25%) is reported.

Analyte	Y9SP5 (D2) Concentration, µg/kg	Y9SP6 (D2) Concentration, µg/kg	RPD
bis(2-Ethylhexyl)phthalate	610	94 J	147

Data users should note that bis(2-ehtylhexyl)phthalate is a common laboratory contaminant. The effect on data usability is not known.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SN2**			**Y9SN3**			**Y9SN4**			**Y9SN5 (D1)**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**10.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**6.02**			**6.55**			**13.49**			**9.81**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	1800	U		180	U		200	U		190	U	
Phenol	1800	U		180	U		200	U		190	U	
Bis (2-Chloroethyl) ether	1800	U		180	U		200	U		190	U	
2-Chlorophenol	1800	U		180	U		200	U		190	U	
2-Methylphenol	1800	U		180	U		200	U		190	U	
2,2-Oxybis (1-Chloropropane)	1800	U		180	U		200	U		190	U	
Acetophenone	1800	U		180	U		200	U		190	U	
4-Methylphenol	1800	U		180	U		200	U		190	U	
N-Nitroso-di-n-propylamine	1800	U		180	U		200	U		190	U	
Hexachloroethane	1800	U		180	U		200	U		190	U	
Nitrobenzene	1800	U		180	U		200	U		190	U	
Isophorone	1800	U		180	U		200	U		190	U	
2-Nitrophenol	1800	U		180	U		200	U		190	U	
2,4-Dimethylphenol	1800	U		180	U		200	U		190	U	
Bis (2-Chloroethoxy) methane	1800	U		180	U		200	U		190	U	
2,4-Dichlorophenol	1800	U		180	U		200	U		190	U	
Naphthalene	1800	U		180	U		200	U		190	U	
4-Chloroaniline	1800	U		180	U		200	U		190	U	
Hexachlorobutadiene	1800	U		180	U		200	U		190	U	
Caprolactam	1800	U		180	U		200	U		190	U	
4-Chloro-3-methylphenol	1800	U		180	U		200	U		190	U	
2-Methylnaphthalene	1800	U		180	U		200	U		190	U	
Hexachlorocyclopentadiene	1800	U		180	U		200	U		190	U	
2,4,6-Trichlorophenol	1800	U		180	U		200	U		190	U	
2,4,5-Trichlorophenol	1800	U		180	U		200	U		190	U	
1,1'-Biphenyl	1800	U		180	U		200	U		190	U	
2-Chloronaphthalene	1800	U		180	U		200	U		190	U	
2-Nitroaniline	3500	U		350	U		380	U		360	U	
Dimethylphthalate	1800	U		180	U		200	U		190	U	
2,6-Dinitrotoluene	1800	U		180	U		200	U		190	U	
Acenaphthylene	1800	U		180	U		200	U		190	U	
3-Nitroaniline	3500	U		350	U		380	U		360	U	
Acenaphthene	1800	U		180	U		200	U		190	U	

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	Y9SN2			Y9SN3			Y9SN4			Y9SN5 (D1)		
Location	N/A			N/A			N/A			N/A		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level	Soil/Low			Soil/Low			Soil/Low			Soil/Low		
Dilution Factor	10.0			1.0			1.0			1.0		
% Moisture	6.02			6.55			13.49			9.81		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	3500	U		350	U		380	U		360	U	
4-Nitrophenol	3500	U		350	U		380	U		360	U	
Dibenzofuran	1800	U		180	U		200	U		190	U	
2,4-Dinitrotoluene	1800	U		180	U		200	U		190	U	
Diethylphthalate	1800	U		180	U		200	U		190	U	
Fluorene	1800	U		180	U		200	U		190	U	
4-Chlorophenyl-phenylether	1800	U		180	U		200	U		190	U	
4-Nitroaniline	3500	U		350	U		380	U		360	U	
4,6-Dinitro-2-methylphenol	3500	U		350	U		380	U		360	U	
N-Nitrosodiphenylamine	1800	U		180	U		200	U		190	U	
1,2,4,5-Tetrachlorobenzene	1800	U		180	U		200	U		190	U	
4-Bromophenyl-phenylether	1800	U		180	U		200	U		190	U	
Hexachlorobenzene	1800	U		180	U		200	U		190	U	
Atrazine	1800	U		180	U		200	U		190	U	
Pentachlorophenol	3500	UJ	C	350	U		380	U		360	U	
Phenanthrene	1800	U		180	U		200	U		190	U	
Anthracene	1800	U		180	U		200	U		190	U	
Carbazole	1800	U		180	U		200	U		190	U	
Di-n-butylphthalate	1800	U		180	U		200	U		190	U	
Fluoranthene	1800	U		180	U		200	U		190	U	
Pyrene	1800	U		180	U		200	U		190	U	
Butylbenzylphthalate	1800	U		180	U		200	U		190	U	
3,3-Dichlorobenzidine	1800	U		180	U		200	U		190	U	
Benzo (a) anthracene	1800	U		180	U		200	U		190	U	
Chrysene	1800	U		180	U		200	U		190	U	
Bis (2-Ethylhexyl) phthalate	1800	U		180	U		200	U		190	U	
Di-n-octylphthalate	1800	U		180	U		200	U		190	U	
Benzo (b) fluoranthene	1800	U		19	J	A	200	U		190	U	
Benzo (k) fluoranthene	1800	U		180	U		200	U		190	U	
Benzo (a) pyrene	1800	U		180	U		200	U		190	U	
Indeno (1,2,3-cd) pyrene	1800	U		180	U		200	U		190	U	
Dibenzo (a,h) anthracene	1800	U		180	U		200	U		190	U	
Benzo (g,h,i) perylene	1800	U		180	U		200	U		190	U	
2,3,4,6-Tetrachlorophenol	1800	U		180	U		200	U		190	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SN6 (D1)**			**Y9SN7**			**Y9SN8**			**Y9SP0**		
Location	**N/A**			**N/A**			**N/A**			**JW-SB10-2**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**20.88**			**19.93**			**7.47**			**5.74**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	210	U		210	U		180	U		180	U	
Phenol	210	U		210	U		180	U		180	U	
Bis (2-Chloroethyl) ether	210	U		210	U		180	U		180	U	
2-Chlorophenol	210	U		210	U		180	U		180	U	
2-Methylphenol	210	U		210	UJ	E	180	U		180	U	
2,2-Oxybis (1-Chloropropane)	210	U		210	U		180	U		180	U	
Acetophenone	210	U		210	U		180	U		180	U	B
4-Methylphenol	210	U		210	UJ	E	180	U		180	U	
N-Nitroso-di-n-propylamine	210	U		210	U		180	U		180	U	
Hexachloroethane	210	U		210	U		180	U		180	U	
Nitrobenzene	210	U		210	U		180	U		180	U	
Isophorone	210	U		210	U		180	U		180	U	
2-Nitrophenol	210	U		210	U		180	U		180	U	
2,4-Dimethylphenol	210	U		210	UJ	E	180	U		180	U	
Bis (2-Chloroethoxy) methane	210	U		210	U		180	U		180	U	
2,4-Dichlorophenol	210	U		210	U		180	U		180	U	
Naphthalene	210	U		210	U		180	U		180	U	
4-Chloroaniline	210	U		210	U		180	U		180	U	
Hexachlorobutadiene	210	U		210	U		180	U		180	U	
Caprolactam	210	U		210	U		180	U		180	U	
4-Chloro-3-methylphenol	210	U		210	U		180	U		180	U	
2-Methylnaphthalene	210	U		210	U		180	U		180	U	
Hexachlorocyclopentadiene	210	U		210	U		180	U		180	U	
2,4,6-Trichlorophenol	210	U		210	U		180	U		180	U	
2,4,5-Trichlorophenol	210	U		210	U		180	U		180	U	
1,1'-Biphenyl	210	U		210	U		180	U		180	U	
2-Chloronaphthalene	210	U		210	U		180	U		180	U	
2-Nitroaniline	420	U		410	U		360	U		350	U	
Dimethylphthalate	210	U		210	U		180	U		180	U	
2,6-Dinitrotoluene	210	U		210	U		180	U		180	U	
Acenaphthylene	210	U		210	U		180	U		180	U	
3-Nitroaniline	420	U		410	U		360	U		350	U	
Acenaphthene	210	U		210	U		180	U		180	U	

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9SN6 (D1) N/A Field_Sample Soil/Low 1.0 20.88 ug/kg			Y9SN7 N/A Field_Sample Soil/Low 1.0 19.93 ug/kg			Y9SN8 N/A Field_Sample Soil/Low 1.0 7.47 ug/kg			Y9SP0 JW-SB10-2 Field_Sample Soil/Low 1.0 5.74 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	420	U		410	U		360	U		350	U	
4-Nitrophenol	420	U		410	U		360	U		350	U	
Dibenzofuran	210	U		210	U		180	U		180	U	
2,4-Dinitrotoluene	210	U		210	U		180	U		180	U	
Diethylphthalate	210	U		210	U		180	U		180	U	
Fluorene	210	U		210	U		180	U		180	U	
4-Chlorophenyl-phenylether	210	U		210	U		180	U		180	U	
4-Nitroaniline	420	U		410	U		360	U		350	U	
4,6-Dinitro-2-methylphenol	420	U		410	U		360	U		350	U	
N-Nitrosodiphenylamine	210	U		210	U		180	U		180	U	
1,2,4,5-Tetrachlorobenzene	210	U		210	U		180	U		180	U	
4-Bromophenyl-phenylether	210	U		210	U		180	U		180	U	
Hexachlorobenzene	210	U		210	U		180	U		180	U	
Atrazine	210	U		210	U		180	U		180	U	
Pentachlorophenol	420	U		410	U		360	U		350	U	
Phenanthrene	210	U		210	U		180	U		180	U	
Anthracene	210	U		210	U		180	U		180	U	
Carbazole	210	U		210	U		180	U		180	U	
Di-n-butylphthalate	210	U		210	U		180	U		180	U	
Fluoranthene	210	U		210	U		180	U		35	J	A
Pyrene	210	U		210	U		180	U		180	U	
Butylbenzylphthalate	210	U		210	U		180	U		180	U	
3,3-Dichlorobenzidine	210	U		210	U		180	U		180	U	
Benzo (a) anthracene	210	U		210	U		180	U		180	U	
Chrysene	210	U		210	U		180	U		180	U	
Bis (2-Ethylhexyl) phthalate	210	U		210	U		180	U		360		
Di-n-octylphthalate	210	U		210	U		180	U		180	U	
Benzo (b) fluoranthene	210	U		210	U		180	U		180	U	
Benzo (k) fluoranthene	210	U		210	U		180	U		180	U	
Benzo (a) pyrene	210	U		210	U		180	U		180	U	
Indeno (1,2,3-cd) pyrene	210	U		210	U		180	U		180	U	
Dibenzo (a,h) anthracene	210	U		210	U		180	U		180	U	
Benzo (g,h,i) perylene	210	U		210	U		180	U		180	U	
2,3,4,6-Tetrachlorophenol	210	U		210	U		180	U		180	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SP5 (D2)**			**Y9SP6 (D2)**			**Y9SP7**			**Y9SP8 (D3)**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**7.91**			**7.71**			**6.84**			**13.74**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	180	U		180	U		180	U		200	U	
Phenol	180	U		180	U		180	U		200	U	
Bis (2-Chloroethyl) ether	180	U		180	U		180	U		200	U	
2-Chlorophenol	180	U		180	U		180	U		200	U	
2-Methylphenol	180	U		180	U		180	UJ	E	200	UJ	E
2,2-Oxybis (1-Chloropropane)	180	U		180	U		180	U		200	U	
Acetophenone	180	U		180	U		180	U		200	U	
4-Methylphenol	180	U		180	U		180	UJ	E	200	UJ	E
N-Nitroso-di-n-propylamine	180	U		180	U		180	U		200	U	
Hexachloroethane	180	U		180	U		180	U		200	U	
Nitrobenzene	180	U		180	U		180	U		200	U	
Isophorone	180	U		180	U		180	U		200	U	
2-Nitrophenol	180	U		180	U		180	U		200	U	
2,4-Dimethylphenol	180	U		180	U		180	UJ	E	200	UJ	E
Bis (2-Chloroethoxy) methane	180	U		180	U		180	U		200	U	
2,4-Dichlorophenol	180	U		180	U		180	U		200	U	
Naphthalene	180	U		180	U		180	U		200	U	
4-Chloroaniline	180	U		180	U		180	U		200	U	
Hexachlorobutadiene	180	U		180	U		180	U		200	U	
Caprolactam	180	U		180	U		180	U		200	U	
4-Chloro-3-methylphenol	180	U		180	U		180	U		200	U	
2-Methylnaphthalene	180	U		180	U		180	U		200	U	
Hexachlorocyclopentadiene	180	U		180	U		180	U		200	U	
2,4,6-Trichlorophenol	180	U		180	U		180	U		200	U	
2,4,5-Trichlorophenol	180	U		180	U		180	U		200	U	
1,1'-Biphenyl	180	U		180	U		180	U		200	U	
2-Chloronaphthalene	180	U		180	U		180	U		200	U	
2-Nitroaniline	360	U		360	U		350	U		380	U	
Dimethylphthalate	180	U		180	U		180	U		200	U	
2,6-Dinitrotoluene	180	U		180	U		180	U		200	U	
Acenaphthylene	180	U		180	U		180	U		200	U	
3-Nitroaniline	360	U		360	U		350	U		380	U	
Acenaphthene	180	U		180	U		180	U		200	U	

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9SP5 (D2) N/A Field_Sample Soil/Low 1.0 7.91 ug/kg			Y9SP6 (D2) N/A Field_Sample Soil/Low 1.0 7.71 ug/kg			Y9SP7 N/A Field_Sample Soil/Low 1.0 6.84 ug/kg			Y9SP8 (D3) N/A Field_Sample Soil/Low 1.0 13.74 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	360	U		360	U		350	U		380	U	
4-Nitrophenol	360	U		360	U		350	U		380	U	
Dibenzofuran	180	U		180	U		180	U		200	U	
2,4-Dinitrotoluene	180	U		180	U		180	U		200	U	
Diethylphthalate	180	U		180	U		180	U		200	U	
Fluorene	180	U		180	U		180	U		200	U	
4-Chlorophenyl-phenylether	180	U		180	U		180	U		200	U	
4-Nitroaniline	360	U		360	U		350	U		380	U	
4,6-Dinitro-2-methylphenol	360	U		360	U		350	U		380	U	
N-Nitrosodiphenylamine	180	U		180	U		180	U		200	U	
1,2,4,5-Tetrachlorobenzene	180	U		180	U		180	U		200	U	
4-Bromophenyl-phenylether	180	U		180	U		180	U		200	U	
Hexachlorobenzene	180	U		180	U		180	U		200	U	
Atrazine	180	U		180	U		180	U		200	U	
Pentachlorophenol	360	UJ	C	360	UJ	C	350	U		380	UJ	D
Phenanthrene	180	U		180	U		180	U		200	U	
Anthracene	180	U		180	U		180	U		200	U	
Carbazole	180	U		180	U		180	U		200	U	
Di-n-butylphthalate	180	U		180	U		180	U		200	U	
Fluoranthene	180	U		180	U		180	U		200	U	
Pyrene	180	U		180	U		180	U		200	U	
Butylbenzylphthalate	180	U		180	U		180	U		200	U	
3,3-Dichlorobenzidine	180	U		180	U		180	U		200	U	
Benzo (a) anthracene	180	U		180	U		180	U		200	U	
Chrysene	180	U		180	U		180	U		200	U	
Bis (2-Ethylhexyl) phthalate	610		F	94	J	A,F	180	U		200	U	
Di-n-octylphthalate	180	U		180	U		180	U		200	U	
Benzo (b) fluoranthene	180	U		180	U		180	U		200	U	
Benzo (k) fluoranthene	180	U		180	U		180	U		200	U	
Benzo (a) pyrene	180	U		180	U		180	U		200	U	
Indeno (1,2,3-cd) pyrene	180	U		180	U		180	U		200	U	
Dibenzo (a,h) anthracene	180	U		180	U		180	U		200	U	
Benzo (g,h,i) perylene	180	U		180	U		180	U		200	U	
2,3,4,6-Tetrachlorophenol	180	U		180	U		180	U		200	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SP9 (D3)**			**Y9SQ0**			**Y9SQ1**			**Y9SQ2**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**13.88**			**19.57**			**15.44**			**6.19**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	190	U		210	U		200	U		180	U	
Phenol	190	U		210	U		200	U		180	U	
Bis (2-Chloroethyl) ether	190	U		210	U		200	U		180	U	
2-Chlorophenol	190	U		210	U		200	U		180	U	
2-Methylphenol	190	UJ	E	210	U		200	UJ	E	180	U	
2,2-Oxybis (1-Chloropropane)	190	U		210	U		200	U		180	U	
Acetophenone	190	U		210	U		200	U		180	U	
4-Methylphenol	190	UJ	E	210	U		200	UJ	E	180	U	
N-Nitroso-di-n-propylamine	190	U		210	U		200	U		180	U	
Hexachloroethane	190	U		210	U		200	U		180	U	
Nitrobenzene	190	U		210	U		200	U		180	U	
Isophorone	190	U		210	U		200	U		180	U	
2-Nitrophenol	190	U		210	U		200	U		180	U	
2,4-Dimethylphenol	190	UJ	E	210	U		200	UJ	E	180	U	
Bis (2-Chloroethoxy) methane	190	U		210	U		200	U		180	U	
2,4-Dichlorophenol	190	U		210	U		200	U		180	U	
Naphthalene	190	U		210	U		200	U		180	U	
4-Chloroaniline	190	U		210	U		200	U		180	U	
Hexachlorobutadiene	190	U		210	U		200	U		180	U	
Caprolactam	190	U		210	U		200	U		180	U	
4-Chloro-3-methylphenol	190	U		210	U		200	U		180	U	
2-Methylnaphthalene	190	U		210	U		200	U		180	U	
Hexachlorocyclopentadiene	190	U		210	U		200	U		180	U	
2,4,6-Trichlorophenol	190	U		210	U		200	U		180	U	
2,4,5-Trichlorophenol	190	U		210	U		200	U		180	U	
1,1'-Biphenyl	190	U		210	U		200	U		180	U	
2-Chloronaphthalene	190	U		210	U		200	U		180	U	
2-Nitroaniline	380	U		400	U		390	U		350	U	
Dimethylphthalate	190	U		210	U		200	U		180	U	
2,6-Dinitrotoluene	190	U		210	U		200	U		180	U	
Acenaphthylene	190	U		210	U		200	U		180	U	
3-Nitroaniline	380	U		400	U		390	U		350	U	
Acenaphthene	190	U		210	U		200	U		180	U	

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	Y9SP9 (D3)			Y9SQ0			Y9SQ1			Y9SQ2		
Location	N/A			N/A			N/A			N/A		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level	Soil/Low			Soil/Low			Soil/Low			Soil/Low		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	13.88			19.57			15.44			6.19		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	380	U		400	U		390	U		350	U	
4-Nitrophenol	380	U		400	U		390	U		350	U	
Dibenzofuran	190	U		210	U		200	U		180	U	
2,4-Dinitrotoluene	190	U		210	U		200	U		180	U	
Diethylphthalate	190	U		210	U		200	U		180	U	
Fluorene	190	U		210	U		200	U		180	U	
4-Chlorophenyl-phenylether	190	U		210	U		200	U		180	U	
4-Nitroaniline	380	U		400	U		390	U		350	U	
4,6-Dinitro-2-methylphenol	380	U		400	U		390	U		350	U	
N-Nitrosodiphenylamine	190	U		210	U		200	U		180	U	
1,2,4,5-Tetrachlorobenzene	190	U		210	U		200	U		180	U	
4-Bromophenyl-phenylether	190	U		210	U		200	U		180	U	
Hexachlorobenzene	190	U		210	U		200	U		180	U	
Atrazine	190	U		210	U		200	U		180	U	
Pentachlorophenol	380	UJ	D	400	UJ	D	390	UJ	C	350	UJ	D
Phenanthrene	190	U		210	U		200	U		180	U	
Anthracene	190	U		210	U		200	U		180	U	
Carbazole	190	U		210	U		200	U		180	U	
Di-n-butylphthalate	190	U		210	U		200	U		180	U	
Fluoranthene	190	U		210	U		200	U		180	U	
Pyrene	190	U		210	U		200	U		180	U	
Butylbenzylphthalate	190	U		210	U		200	U		180	U	
3,3-Dichlorobenzidine	190	U		210	U		200	U		180	U	
Benzo (a) anthracene	190	U		210	U		200	U		180	U	
Chrysene	190	U		210	U		200	U		180	U	
Bis (2-Ethylhexyl) phthalate	190	U		210	U		200	U		180	U	
Di-n-octylphthalate	190	U		210	U		200	U		180	U	
Benzo (b) fluoranthene	190	U		210	U		200	U		180	U	
Benzo (k) fluoranthene	190	U		210	U		200	U		180	U	
Benzo (a) pyrene	190	U		210	U		200	U		180	U	
Indeno (1,2,3-cd) pyrene	190	U		210	U		200	U		180	U	
Dibenzo (a,h) anthracene	190	U		210	U		200	U		180	U	
Benzo (g,h,i) perylene	190	U		210	U		200	U		180	U	
2,3,4,6-Tetrachlorophenol	190	U		210	U		200	U		180	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**Y9SW9**			**Y9SX0**			**Y9SX1**			**Y9SX2**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/Low**			**Soil/Low**			**Soil/Low**			**Soil/Low**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**11.48**			**7.06**			**11.18**			**22.42**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	190	U		180	U		190	U		220	U	
Phenol	190	U		180	U		190	U		220	U	
Bis (2-Chloroethyl) ether	190	U		180	U		190	U		220	U	
2-Chlorophenol	190	U		180	U		190	U		220	U	
2-Methylphenol	190	U		180	UJ	E	190	U		220	U	
2,2-Oxybis (1-Chloropropane)	190	U		180	U		190	U		220	U	
Acetophenone	190	U		180	U		190	U		220	U	
4-Methylphenol	190	U		180	UJ	E	190	U		220	U	
N-Nitroso-di-n-propylamine	190	U		180	U		190	U		220	U	
Hexachloroethane	190	U		180	U		190	U		220	U	
Nitrobenzene	190	U		180	U		190	U		220	U	
Isophorone	190	U		180	U		190	U		220	U	
2-Nitrophenol	190	U		180	U		190	U		220	U	
2,4-Dimethylphenol	190	U		180	UJ	E	190	U		220	U	
Bis (2-Chloroethoxy) methane	190	U		180	U		190	U		220	U	
2,4-Dichlorophenol	190	U		180	U		190	U		220	U	
Naphthalene	190	U		180	U		190	U		220	U	
4-Chloroaniline	190	U		180	U		190	U		220	U	
Hexachlorobutadiene	190	U		180	U		190	U		220	U	
Caprolactam	190	U		180	U		190	U		220	U	
4-Chloro-3-methylphenol	190	U		180	U		190	U		220	U	
2-Methylnaphthalene	190	U		180	U		190	U		220	U	
Hexachlorocyclopentadiene	190	U		180	U		190	U		220	U	
2,4,6-Trichlorophenol	190	U		180	U		190	U		220	U	
2,4,5-Trichlorophenol	190	U		180	U		190	U		220	U	
1,1'-Biphenyl	190	U		180	U		190	U		220	U	
2-Chloronaphthalene	190	U		180	U		190	U		220	U	
2-Nitroaniline	370	U		350	U		370	U		420	U	
Dimethylphthalate	190	U		180	U		190	U		220	U	
2,6-Dinitrotoluene	190	U		180	U		190	U		220	U	
Acenaphthylene	190	U		180	U		190	U		220	U	
3-Nitroaniline	370	U		350	U		370	U		420	U	
Acenaphthene	190	U		180	U		190	U		220	U	

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	Y9SW9			Y9SX0			Y9SX1			Y9SX2		
Location	N/A			N/A			N/A			N/A		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level	Soil/Low			Soil/Low			Soil/Low			Soil/Low		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	11.48			7.06			11.18			22.42		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	370	U		350	U		370	U		420	U	
4-Nitrophenol	370	U		350	U		370	U		420	U	
Dibenzofuran	190	U		180	U		190	U		220	U	
2,4-Dinitrotoluene	190	U		180	U		190	U		220	U	
Diethylphthalate	190	U		180	U		190	U		220	U	
Fluorene	190	U		180	U		190	U		220	U	
4-Chlorophenyl-phenylether	190	U		180	U		190	U		220	U	
4-Nitroaniline	370	U		350	U		370	U		420	U	
4,6-Dinitro-2-methylphenol	370	U		350	U		370	U		420	U	
N-Nitrosodiphenylamine	190	U		180	U		190	U		220	U	
1,2,4,5-Tetrachlorobenzene	190	U		180	U		190	U		220	U	
4-Bromophenyl-phenylether	190	U		180	U		190	U		220	U	
Hexachlorobenzene	190	U		180	U		190	U		220	U	
Atrazine	190	U		180	U		190	U		220	U	
Pentachlorophenol	370	UJ	C	350	UJ	C	370	UJ	D	420	UJ	D
Phenanthrene	190	U		180	U		190	U		220	U	
Anthracene	190	U		180	U		190	U		220	U	
Carbazole	190	U		180	U		190	U		220	U	
Di-n-butylphthalate	190	U		180	U		190	U		220	U	
Fluoranthene	190	U		180	U		190	U		220	U	
Pyrene	190	U		180	U		190	U		220	U	
Butylbenzylphthalate	190	U		180	U		190	U		220	U	
3,3-Dichlorobenzidine	190	U		180	U		190	U		220	U	
Benzo (a) anthracene	190	U		180	U		190	U		220	U	
Chrysene	190	U		180	U		190	U		220	U	
Bis (2-Ethylhexyl) phthalate	190	U		180	U		190	U		220	U	
Di-n-octylphthalate	190	U		180	U		190	U		220	U	
Benzo (b) fluoranthene	190	U		180	U		190	U		220	U	
Benzo (k) fluoranthene	190	U		180	U		190	U		220	U	
Benzo (a) pyrene	190	U		180	U		190	U		220	U	
Indeno (1,2,3-cd) pyrene	190	U		180	U		190	U		220	U	
Dibenzo (a,h) anthracene	190	U		180	U		190	U		220	U	
Benzo (g,h,i) perylene	190	U		180	U		190	U		220	U	
2,3,4,6-Tetrachlorophenol	190	U		180	U		190	U		220	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	**SBLKSB**											
Location												
Type	**Method_Blank**											
Matrix/Level	**Soil/Low**											
Dilution Factor	**1.0**											
% Moisture	**0**											
Units	**ug/kg**											
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	170	U										
Phenol	170	U										
Bis (2-Chloroethyl) ether	170	U										
2-Chlorophenol	170	U										
2-Methylphenol	170	U										
2,2-Oxybis (1-Chloropropane)	170	U										
Acetophenone	85	J	A									
4-Methylphenol	170	U										
N-Nitroso-di-n-propylamine	170	U										
Hexachloroethane	170	U										
Nitrobenzene	170	U										
Isophorone	170	U										
2-Nitrophenol	170	U										
2,4-Dimethylphenol	170	U										
Bis (2-Chloroethoxy) methane	170	U										
2,4-Dichlorophenol	170	U										
Naphthalene	170	U										
4-Chloroaniline	170	U										
Hexachlorobutadiene	170	U										
Caprolactam	170	U										
4-Chloro-3-methylphenol	170	U										
2-Methylnaphthalene	170	U										
Hexachlorocyclopentadiene	170	U										
2,4,6-Trichlorophenol	170	U										
2,4,5-Trichlorophenol	170	U										
1,1'-Biphenyl	170	U										
2-Chloronaphthalene	170	U										
2-Nitroaniline	330	U										
Dimethylphthalate	170	U										
2,6-Dinitrotoluene	170	U										
Acenaphthylene	170	U										
3-Nitroaniline	330	U										
Acenaphthene	170	U										

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	**SBLKSB Method_Blank Soil/Low 1.0 0 ug/kg**											
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	330	U										
4-Nitrophenol	330	U										
Dibenzofuran	170	U										
2,4-Dinitrotoluene	170	U										
Diethylphthalate	170	U										
Fluorene	170	U										
4-Chlorophenyl-phenylether	170	U										
4-Nitroaniline	330	U										
4,6-Dinitro-2-methylphenol	330	U										
N-Nitrosodiphenylamine	170	U										
1,2,4,5-Tetrachlorobenzene	170	U										
4-Bromophenyl-phenylether	170	U										
Hexachlorobenzene	170	U										
Atrazine	170	U										
Pentachlorophenol	330	U										
Phenanthrene	170	U										
Anthracene	170	U										
Carbazole	170	U										
Di-n-butylphthalate	170	U										
Fluoranthene	170	U										
Pyrene	170	U										
Butylbenzylphthalate	170	U										
3,3-Dichlorobenzidine	170	U										
Benzo (a) anthracene	170	U										
Chrysene	170	U										
Bis (2-Ethylhexyl) phthalate	170	U										
Di-n-octylphthalate	170	U										
Benzo (b) fluoranthene	170	U										
Benzo (k) fluoranthene	170	U										
Benzo (a) pyrene	170	U										
Indeno (1,2,3-cd) pyrene	170	U										
Dibenzo (a,h) anthracene	170	U										
Benzo (g,h,i) perylene	170	U										
2,3,4,6-Tetrachlorophenol	170	U										

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SN2

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-01

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 1503023-01D70.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/20/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	26.10	1800	J
02		Unknown-02	26.44	2600	J
03		Unknown-03	26.74	3000	J
04		Unknown-04	26.97	3800	J
05		Unknown-05	27.25	4700	J
06		Unknown-06	27.44	3900	J
07		Unknown-07	27.56	3500	J
08		Unknown-08	27.73	3400	J
09		Unknown-09	27.85	3300	J
10		Unknown-10	27.95	2200	J
11		Unknown-11	28.39	1600	J
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[a]	Total Alkanes	N/A		

[a]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SN3

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-02

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 1503023-0270.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.24	390	J
02		Unknown-02	13.41	770	J
03	301-02-0	9-Octadecenamide, (Z)-	26.65	310	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[a]	Total Alkanes	N/A	180	J

[a]EPA-designated Registry Number.

AMENDED
DATA

SOM01.2 (8/2007)

473

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SN4

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-03

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 1503023-0370.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.42	300	J
02	301-02-0	9-Octadecenamide, (Z)-	26.65	200	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[a]	Total Alkanes	N/A	330	J

[a]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: Y9SN5

Lab Name: COMPUCHEM | Contract: EPW11032

Lab Code: LIBRTY | Case No.: 45139 | Mod. Ref No.: | SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL | Lab Sample ID: 1503023-04

Sample wt/vol: 30.3 (g/mL) g | Lab File ID: 1503023-0470.d

Level: (LOW/MED) LOW | Extraction: (Type): SONC

% Moisture: 10 | Decanted: (Y/N) N | Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) | Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) | GPC Factor: 2.0 | Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y | pH: 7.9 | Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01 ($C_6H_{12}O_3$)	12.34	400	J
02		Unknown-02	16.61	130	J
03		Unknown-03	16.70	210	J
04		Unknown-04	17.17	1400	J
05		Unknown-05	17.22	3500	J
06					
07					
08		SL, 5/16/15.			
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[a]	Total Alkanes	N/A		

[a]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SN7

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-06

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 1503023-0670.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 9.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.42	280	J
02		~~Unknown-02~~	~~17.49~~	~~87~~	~~J~~ B
03					
04					
05		SL 5/16/15			
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SP0

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-21

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 1503023-2170.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 03/12/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 9.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.40	360	J
02		Unknown-02	14.64	120	J
03		Unknown-03	26.36	100	J
04	301-02-0	9-Octadecenamide, (Z)-	26.65	110	JN
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	130	J

[2]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SP5

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-08

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 1503023-0870.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/20/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.11	840	J
02		Unknown-02	10.31	1400	J
03		Unknown-03	12.96	2300	J
04		Unknown-04	14.40	430	J
05	~~80-07-9~~ Unknown	~~Benzene, 1,1'-sulfonylbis[4-chloro-~~	23.72	86	JN
06		Unknown-05	26.10	92	J
07		Unknown-06	26.44	140	J
08	~~112-84-5~~	~~13-Docosenamide, (Z)-~~ Unknown	26.49	450	JN
09	~~112-84-9~~	~~Silane, trichlorooctadecyl-~~	~~27.05~~	~~160~~	~~JN~~
10		Unknown-07	27.55	530	J
11		Unknown-08	27.72	550	J
12		Unknown-09	27.97	670	J
13		Unknown-10	28.39	290	J
14					
15					
16		SL 5/16/15			
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SP6

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-09

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 1503023-0970.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/20/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.06	600	J
02		Unknown-02	10.30	760	J
03		Unknown-03	12.94	1300	J
04		Unknown-04	14.39	410	J
05	301-02-0	9-Octadecenamide, (Z)-	26.47	280	JN
06		Unknown-05	27.72	150	J
07		Unknown-06	27.97	250	J
08		Unknown-07	28.37	120	J
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	99	J

[2]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: Y9SP7

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-10

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 1503023-1070.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.98	410	J
02		Unknown-02	13.41	370	J
03		Unknown-03	14.65	160	J
04	~~112-84-5~~ 301-02-0	~~13-Docosenamide~~, (Z)-	26.65	780	JN
05		9-Octadecenamide			
06					
07					
08		SL, 5/18/15.			
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	89	J

[2]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SP8

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-11

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 1503023-1170.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.94	360	J
02		Unknown-02	13.39	340	J
03	301-02-0	9-Octadecenamide, (Z)-	26.64	100	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[a]	Total Alkanes	N/A	110	J

[a]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SP9

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-12

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 1503023-1270.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.93	450	J
02		Unknown-02	11.18	330	J
03		Unknown-03	13.38	570	J
04		Unknown-04	14.63	160	J
05		Unknown-05	18.18	81	J
06	301-02-0	~~Unknown-06~~ 9-Octadecenamide, (Z)-	26.64	130	J/N
07					
08					
09		SL, 5/16/15.			
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	120	J

[2]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SQ1

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-14

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 1503023-1470.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/20/2015

GPC Cleanup: (Y/N) Y pH: 8.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.08	1400	J
02		Unknown-02	10.31	1100	J
03		Unknown-03	12.95	2000	J
04		Unknown-04	13.45	250	J
05		Unknown-05	14.40	700	J
06		Unknown-06	15.62	260	J
07		Unknown-07	16.37	250	J
08		Unknown-08	18.05	99	J
09		Unknown-09	22.11	110	J
10		Unknown-10	27.41	130	J
11		Unknown-11	27.72	170	J
12		Unknown-12	27.97	200	J
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[a]	Total Alkanes	N/A		

[a] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SQ2

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-15

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 1503023-1570.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 9.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	17.73	190	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[a]	Total Alkanes	N/A		

[a]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: Y9SX0

Lab Name: COMPUCHEM | Contract: EPW11032

Lab Code: LIBRTY | Case No.: 45139 | Mod. Ref No.: | SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL | Lab Sample ID: 1503023-17

Sample wt/vol: 30.2 (g/mL) g | Lab File ID: 1503023-1770.d

Level: (LOW/MED) LOW | Extraction: (Type): SONC

% Moisture: 7 | Decanted: (Y/N) N | Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) | Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) | GPC Factor: 2.0 | Date Analyzed: 03/20/2015

GPC Cleanup: (Y/N) Y | pH: 7.9 | Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.11	770	J
02		Unknown-02	10.32	600	J
03		Unknown-03	12.96	1000	J
04		Unknown-04	13.46	160	J
05		Unknown-05	14.40	470	J
06	301-02-0	9-Octadecenamide, (Z)-	26.48	420	JN
07		Unknown-06	27.55	170	J
08		Unknown-07	27.72	120	J
09	~~1000195-40-9~~	~~2,4,5,5,8a-Pentamethyl-6,7,8,8a-tet~~	28.38	90	JN
10		Unknown			
11					
12					
13					
14					
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24					
25					
26					
27					
28					
29					
30					
	E966796[4]	Total Alkanes	N/A	610	J

[4]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SX1

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-18

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 1503023-1870.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 8.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.37	240	J
02		Unknown-02	15.89	190	J
03	301-02-0	9-Octadecenamide, (Z)-	26.64	99	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	120	J

[2]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SX2

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-19

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 1503023-1970.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.39	190	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[a]	Total Alkanes	N/A		

[a]EPA-designated Registry Number.

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
USEPA Region 9
Site Cleanup Section 3, SFD-7-3

THROUGH: Joe Eidelberg, Chemist
USEPA Region 9
Quality Assurance (QA) Program, MTS-3

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Project Manager
ICF International
Environmental Services Assistance Team (ESAT) Region 9

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106079

DATE: June 1, 2015

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B. Webb Co.
Site Account No.:	09 WR QB 00
Case No.:	45139
SDG No.:	Y9SN2
Laboratory:	CompuChem (LIBRTY)
Analysis:	Aroclors
Samples:	20 Soil Samples
Collection Date:	March 9 and 11, 2015
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated; the dynamic deliverables will be regenerated upon completion of review for the other analyses.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.
Attachment

cc: Cynthia Gurley, CLP PO USEPA Region 4
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action
SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - Tier 3

Case No.: 45139
SDG No.: Y9SN2
Site: Jervis B. Webb Co.
Laboratory: CompuChem (LIBRTY)
Analysis: Aroclors
Reviewer: Santiago Lee, ESAT
Date: June 1, 2015

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guidelines (NFG) Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Collected
Equipment Blanks (EB):	Not Collected
Background Samples (BG):	Not Collected
Field Duplicates (D1):	Y9SN5 and Y9SN6
Field Duplicates (D2):	Y9SP5 and Y9SP6
Field Duplicates (D3):	Y9SP8 and Y9SP9

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

Sample Y9SQ0 is not listed on the chain of custody records (COCs).

Additional Comments

Percent differences (%Ds) exceed the ±50.0% criterion for the closing continuing calibration verification (CCV) AR16603CD for column clpest; %Ds for column clpest2 are less than ±50.0%. The closing CCV was re-injected immediately (file name AR16603DC), as required by the Statement of Work, and the %Ds for both columns are less than ±50.0%. Therefore, qualification of data is not needed; the "J" flags have been removed from the EXES Data Manager.

The laboratory performed manual peak integration on chromatograms for some calibrations. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	Yes	
2	Initial Calibration	Yes	
3	Continuing Calibration Verification (CCV)	Yes	
4	Laboratory Blanks	Yes	
5	Field Blanks	N/A	
6	Surrogate Spikes	No	A
7	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	Yes	
8	Laboratory Control Samples (LCSs)	Yes	
9	GPC Performance Check	N/A	
10	Target Compound Identification	Yes	
11	GC/MS Confirmation	N/A	
12	Compound Quantitation	Yes	
13	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Results for the following analytes are qualified as estimated due to low surrogate recoveries and are flagged "UJ" in Table 1A.

{Decachlorobiphenyl}
- All Aroclors in samples Y9SN6, Y9SP5, Y9SP8, Y9SP9, and Y9SQ1.

Surrogate recoveries outside QC limits are shown below.

Sample	Surrogate	% Recovery	QC Limit
Y9SN6	Decachlorobiphenyl, Column 2	29	30-150
Y9SP5	Decachlorobiphenyl, Column 1	16	30-150
	Decachlorobiphenyl, Column 2	11	30-150
Y9SP8	Decachlorobiphenyl, Column 1	22	30-150
	Decachlorobiphenyl, Column 2	19	30-150
Y9SP9	Decachlorobiphenyl, Column 1	14	30-150
	Decachlorobiphenyl, Column 2	12	30-150

Sample	Surrogate	% Recovery	QC Limit
Y9SQ1	Decachlorobiphenyl, Column 2	28	30-150

Since qualified results are nondetected, false negatives may exist. Samples listed above were not re-extracted and re-analyzed.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	Y9SN2			Y9SN3			Y9SN4			Y9SN5 (D1)		
Location	N/A			N/A			N/A			N/A		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix	Soil/			Soil/			Soil/			Soil/		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	6.02			6.55			13.49			9.81		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	35	U		35	U		38	U		36	U	
Aroclor-1221	35	U		35	U		38	U		36	U	
Aroclor-1232	35	U		35	U		38	U		36	U	
Aroclor-1242	35	U		35	U		38	U		36	U	
Aroclor-1248	35	U		35	U		38	U		36	U	
Aroclor-1254	35	U		35	U		38	U		36	U	
Aroclor-1260	35	U		35	U		38	U		36	U	
Aroclor-1262	35	U		35	U		38	U		36	U	
Aroclor-1268	35	U		35	U		38	U		36	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Sample	Y9SN6 (D1)			Y9SN7			Y9SN8			Y9SP0		
Location	N/A			N/A			N/A			JW-SB10-2		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix	Soil/			Soil/			Soil/			Soil/		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	20.88			19.93			7.47			5.74		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	42	UJ	A	41	U		35	U		35	U	
Aroclor-1221	42	UJ	A	41	U		35	U		35	U	
Aroclor-1232	42	UJ	A	41	U		35	U		35	U	
Aroclor-1242	42	UJ	A	41	U		35	U		35	U	
Aroclor-1248	42	UJ	A	41	U		35	U		35	U	
Aroclor-1254	42	UJ	A	41	U		35	U		35	U	
Aroclor-1260	42	UJ	A	41	U		35	U		35	U	
Aroclor-1262	42	UJ	A	41	U		35	U		35	U	
Aroclor-1268	42	UJ	A	41	U		35	U		35	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	Y9SP5 (D2)			Y9SP6 (D2)			Y9SP7			Y9SP8 (D3)		
Location	N/A			N/A			N/A			N/A		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix	Soil/			Soil/			Soil/			Soil/		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	7.91			7.71			6.84			13.74		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	36	UJ	A	36	U		35	U		38	UJ	A
Aroclor-1221	36	UJ	A	36	U		35	U		38	UJ	A
Aroclor-1232	36	UJ	A	36	U		35	U		38	UJ	A
Aroclor-1242	36	UJ	A	36	U		35	U		38	UJ	A
Aroclor-1248	36	UJ	A	36	U		35	U		38	UJ	A
Aroclor-1254	36	UJ	A	36	U		35	U		38	UJ	A
Aroclor-1260	36	UJ	A	36	U		35	U		38	UJ	A
Aroclor-1262	36	UJ	A	36	U		35	U		38	UJ	A
Aroclor-1268	36	UJ	A	36	U		35	U		38	UJ	A

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Sample	Y9SP9 (D3)			Y9SQ0			Y9SQ1			Y9SQ2		
Location	N/A			N/A			N/A			N/A		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix	Soil/			Soil/			Soil/			Soil/		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	13.88			19.57			15.44			6.19		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	38	UJ	A	41	U		39	UJ	A	35	U	
Aroclor-1221	38	UJ	A	41	U		39	UJ	A	35	U	
Aroclor-1232	38	UJ	A	41	U		39	UJ	A	35	U	
Aroclor-1242	38	UJ	A	41	U		39	UJ	A	35	U	
Aroclor-1248	38	UJ	A	41	U		39	UJ	A	35	U	
Aroclor-1254	38	UJ	A	41	U		39	UJ	A	35	U	
Aroclor-1260	38	UJ	A	41	U		39	UJ	A	35	U	
Aroclor-1262	38	UJ	A	41	U		39	UJ	A	35	U	
Aroclor-1268	38	UJ	A	41	U		39	UJ	A	35	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

Sample	Y9SW9			Y9SX0			Y9SX1			Y9SX2		
Location	N/A			N/A			N/A			N/A		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix	Soil/			Soil/			Soil/			Soil/		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	11.48			7.06			11.18			22.42		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	37	U		35	U		37	U		43	U	
Aroclor-1221	37	U		35	U		37	U		43	U	
Aroclor-1232	37	U		35	U		37	U		43	U	
Aroclor-1242	37	U		35	U		37	U		43	U	
Aroclor-1248	37	U		35	U		37	U		43	U	
Aroclor-1254	37	U		35	U		37	U		43	U	
Aroclor-1260	37	U		35	U		37	U		43	U	
Aroclor-1262	37	U		35	U		37	U		43	U	
Aroclor-1268	37	U		35	U		37	U		43	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank; BG - Background Sample.

Sample	ABLKSC											
Location												
Type	Method_Blank											
Matrix	Soil/											
Dilution Factor	1.0											
% Moisture	0											
Units	ug/kg											
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	33	U										
Aroclor-1221	33	U										
Aroclor-1232	33	U										
Aroclor-1242	33	U										
Aroclor-1248	33	U										
Aroclor-1254	33	U										
Aroclor-1260	33	U										
Aroclor-1262	33	U										
Aroclor-1268	33	U										

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank; BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

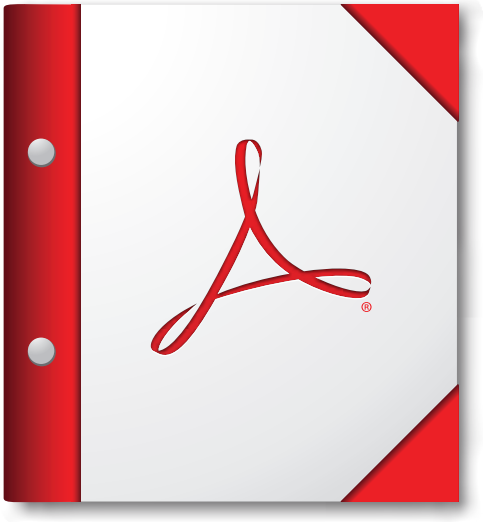
U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.



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ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3
USEPA Region 9

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3
USEPA Region 9

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Project Manager
Environmental Services Assistance Team (ESAT) Region 9
ICF International

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106079

DATE: June 3, 2015

SUBJECT: Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B. Webb Co.
Site Account No.:	09 WR QB 00
Case No.:	45139
SDG No.:	MY9SN2 and MY9SN3
Laboratory:	Chemtech Consulting Group (CHEM)
Analysis:	CLP Metals by ICP-MS, ICP-AES, and Mercury
Samples:	20 Soil Samples
Collection Date:	March 9, 2014
Reviewer:	Anna Pajarillo, ESAT

EXES Data Manager has been updated; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Kim Brandon-Bazile, CLP PO USEPA Region 2
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [ ] FYI [X] Action
SAMPLING ISSUES: [ ] Yes [X] No

Data Validation Report – **Tier 3**

Case No.: 45139
SDG No.: MY9SN2 and MY9SN3
Site: Jervis B. Webb Co.
Laboratory: Chemtech Consulting Group (CHEM)
Analysis: CLP Metals by ICP-MS, ICP-AES, and Mercury
Reviewer: Anna Pajarillo, ESAT
Date: June 3, 2015

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guideline (NFG) Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	None Provided
Equipment Blanks (EB):	None Provided
Background Samples (BG):	None Provided
Field Duplicates (D1):	MY9SN5 and MY9SN6
Field Duplicates (D2):	MY9SP5 and MY9SP6
Field Duplicates (D3):	MY9SP8 and MY9SP9

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Inorganic Data Review

CLP PO Action

Nondetected results for antimony in all samples are qualified as rejected (R) due to a matrix spike recovery below 30% (see Comment A).

Sampling Issues

None.

Additional Comments

The soil samples were analyzed for Contract Laboratory Program (CLP) metals. Aluminum, calcium, iron, magnesium, potassium, and sodium were analyzed by Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES). Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc were analyzed by Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS). Mercury was analyzed by Cold Vapor Atomic Absorption.

No sample was designated for laboratory QC on the chain-of-custody records (COCs). The laboratory performed laboratory duplicate, matrix spike, and serial dilution analyses on sample MY9SN2.

The certificate of analysis for Cobalt solution Lot# H2-CO02063 was missing in the data package. The laboratory submitted the missing pages upon request, on 05/28/15. All standards and spiking solutions were analyzed before the expiration date.

All method requirements specified in the EPA CLP Inorganic Statement of Work (SOW), except as noted, have been met.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)* ISM01.2, January 2010;
- *Modifications Updating ISM01.2 to ISM01.3*; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, January 2010.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)* ISM01.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1.	Data Completeness	Yes	
2.	Preservation and Holding Times	Yes	
3.	ICP-MS Tune Analysis	Yes	
4.	Calibration	Yes	
	a. Initial	Yes	
	b. Initial and Continuing Calibration Verification	Yes	
5.	Blanks	Yes	C
6.	ICP Interference Check Sample (ICS)	Yes	
7.	Laboratory Control Sample (LCS)	Yes	
8.	Duplicate Sample Analysis	Yes	
9.	Spike Sample Analysis	No	A,D
10.	ICP Serial Dilution	No	E
11.	ICP-MS Internal Standards	Yes	
12.	Field Duplicate Sample Analysis	No	F
13.	Sample Quantitation	Yes	B
14.	Overall Assessment	Yes	

III. VALIDITY AND COMMENTS

A. The following nondetected results are rejected and flagged "R" in Table 1A due to a matrix spike recovery below 30%.

- Antimony in all samples.

  The matrix spike recovery is <30% for antimony in QC sample MY9SN2S as listed below.

Analyte	% Recovery
Antimony	29

The nondetected results for antimony are unusable.

The following post-digestion spike recovery for antimony was reported in QC sample MY9SN2A.

Analyte	Post-Digestion Spike, % Recovery
Antimony	90

Since the post-digestion spike recovery is acceptable, the unacceptable pre-digestion spike recovery may indicate poor laboratory technique or matrix effects which may interfere with the analysis. The post-digestion spike recovery does not reflect the entire sample preparation and analysis; the impact on reported results cannot be determined.

B. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

C. The following results are qualified as non-detected (U) in Table 1A due to low level initial calibration blank (ICB) and continuing calibration blank (CCB) contamination.

- Antimony in all samples and preparation blank PBS04.

Analyte amounts greater than the MDL but less than the CRQL were found in the following blanks at the concentrations presented below.

Analyte	Blank	Concentration, µg/L
Antimony	ICB67	0.48
	CCB84-CCB89	0.45-0.53

Sample results that are greater than or equal to the MDL but less than or equal to the CRQL are reported as non-detected (U) at the respective CRQL.

D. The following detected results are estimated low and flagged "J-" in Table 1A because matrix spike recovery is outside of method QC limit.

- Copper in all samples.

The matrix spike recovery for copper does not meet the 75-125% criterion for accuracy in QC sample MY9SN2S as listed below.

Analyte	% Recovery
Copper	59

Detected results for copper in all samples are considered quantitatively uncertain and may be biased low.

The following post-digestion spike recovery for copper was reported in QC sample MY9SN2A.

Analyte	Post-Digestion Spike, % Recovery
Copper	89

Since the post-digestion spike recovery is acceptable, the unacceptable pre-digestion spike recovery may indicate poor laboratory technique or matrix effects which may interfere with the analysis. The post-digestion spike recovery does not reflect the entire sample preparation and analysis; the impact on reported results cannot be determined.

E. The following results are estimated and flagged "J" in Table 1A because serial dilution results are outside method QC limit.

- Beryllium and cobalt in all samples.

Percent differences for serial dilution analysis of MY9SN2L do not meet the 10% difference criterion for the analytes presented below.

Analyte	% Difference
Beryllium	12
Cobalt	17

Beryllium and cobalt results in all samples are considered quantitatively uncertain. Chemical and physical interferences may exist due to sample matrix effects. Since results for the diluted sample are higher than the original, the reported results may be biased low.

F. Results for the following field duplicate pair do not meet the relative percent difference (RPD) criterion of 35% for precision as presented below.

MY9SN5 and MY9SN6 (D1)	
Analyte	RPD (%)
Aluminum	52
Barium	44
Chromium	50
Cobalt	44
Copper	40
Nickel	44
Vanadium	55
Zinc	42

Results for the following field duplicate pair do not meet the absolute difference criterion for precision as listed below.

Analyte	MY9SN5 (D1), mg/kg	MY9SN6 (D1), mg/kg	Difference, mg/kg	Limit, mg/kg
Arsenic	2.6	1.5	1.1	1.0
Lead	6.1	2.4	3.7	1.0
Sodium	2120	445	1675	1000

The effect on data quality is not known.

Lab Chemtech Consulting Group (CHEM) **SDGs** MY9SN2 and MY9SN3 **Case** 45139 **Site** Jervis B. Webb Co. **SOW** ISM01.3 Metals by ICP-MS, ICP-AES, and Mercury

Sample No:	MY9SN2				MY9SN3				MY9SN4				MY9SN5 D1			
Sample Location:	N/A				N/A				N/A				N/A			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	Soil/Low				Soil/Low				Soil/Low				Soil/Low			
%Solids	93.4				93.2				86				82.2			
Units :	mg/kg				mg/kg				mg/kg				mg/kg			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	9260			ICP_AES	7180			ICP_AES	12600			ICP_AES	16400		F	ICP_AES
Antimony	0.76	R	A,C	ICP_MS	0.73	R	A,C	ICP_MS	0.81	R	A,C	ICP_MS	0.91	R	A,C	ICP_MS
Arsenic	1.9			ICP_MS	0.67			ICP_MS	0.56			ICP_MS	2.6		F	ICP_MS
Barium	93.6			ICP_MS	66.2			ICP_MS	41.6			ICP_MS	148		F	ICP_MS
Beryllium	0.26	J	B,E	ICP_MS	0.19	J	B,E	ICP_MS	0.13	J	B,E	ICP_MS	0.59	J	E	ICP_MS
Cadmium	0.26	J	B	ICP_MS	0.19	J	B	ICP_MS	0.050	J	B	ICP_MS	0.17	J	B	ICP_MS
Calcium	4680			ICP_AES	4410			ICP_AES	6490			ICP_AES	6980			ICP_AES
Chromium	12.1			ICP_MS	8.4			ICP_MS	5.0			ICP_MS	18.6		F	ICP_MS
Cobalt	6.0	J	E	ICP_MS	4.5	J	E	ICP_MS	3.3	J	E	ICP_MS	10.2	J	E,F	ICP_MS
Copper	32.7	J-	D	ICP_MS	8.7	J-	D	ICP_MS	5.5	J-	D	ICP_MS	26.4	J-	D,F	ICP_MS
Iron	18500			ICP_AES	14900			ICP_AES	22300			ICP_AES	26000			ICP_AES
Lead	22.6			ICP_MS	3.1			ICP_MS	1.3			ICP_MS	6.1		F	ICP_MS
Magnesium	5140			ICP_AES	3950			ICP_AES	6170			ICP_AES	7870			ICP_AES
Manganese	277			ICP_MS	197			ICP_MS	121			ICP_MS	336			ICP_MS
Mercury	0.051	J	B	Hg	0.023	J	B	Hg	0.035	J	B	Hg	0.079	J	B	Hg
Nickel	10.7			ICP_MS	6.3			ICP_MS	3.9			ICP_MS	14.1		F	ICP_MS
Potassium	3100			ICP_AES	2810			ICP_AES	4340			ICP_AES	4000			ICP_AES
Selenium	0.045	J	B	ICP_MS	1.8	U		ICP_MS	2.0	U		ICP_MS	2.3	U		ICP_MS
Silver	0.055	J	B	ICP_MS	0.012	J	B	ICP_MS	0.0089	J	B	ICP_MS	0.038	J	B	ICP_MS
Sodium	306	J	B	ICP_AES	201	J	B	ICP_AES	307	J	B	ICP_AES	2120		F	ICP_AES
Thallium	0.12	J	B	ICP_MS	0.10	J	B	ICP_MS	0.056	J	B	ICP_MS	0.20	J	B	ICP_MS
Vanadium	26.7			ICP_MS	17.9			ICP_MS	11.3			ICP_MS	49.6		F	ICP_MS
Zinc	62.8			ICP_MS	35.6			ICP_MS	18.4			ICP_MS	68.2		F	ICP_MS

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab Chemtech Consulting Group (CHEM) **SDGs** MY9SN2 and MY9SN3 **Case** 45139 **Site** Jervis B. Webb Co. **SOW** ISM01.3 Metals by ICP-MS, ICP-AES, and Mercury

Sample No:	MY9SN6 D1				MY9SN7				MY9SN8				MY9SP5 D2			
Sample Location:	N/A				N/A				N/A				N/A			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	Soil/Low				Soil/Low				Soil/Low				Soil/Low			
% Solids	88.3				80.3				94.1				92.2			
Units :	mg/kg				mg/kg				mg/kg				mg/kg			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	9640		F	ICP_AES	16800			ICP_AES	7830			ICP_AES	7910			ICP_AES
Antimony	0.78	R	A,C	ICP_MS	0.88	R	A,C	ICP_MS	0.79	R	A,C	ICP_MS	0.80	R	A,C	ICP_MS
Arsenic	1.5		F	ICP_MS	2.5			ICP_MS	10.1			ICP_MS	0.72			ICP_MS
Barium	94.3		F	ICP_MS	188			ICP_MS	81.3			ICP_MS	69.0			ICP_MS
Beryllium	0.24	J	B,E	ICP_MS	0.59	J	E	ICP_MS	0.19	J	B,E	ICP_MS	0.16	J	B,E	ICP_MS
Cadmium	0.096	J	B	ICP_MS	0.25	J	B	ICP_MS	0.046	J	B	ICP_MS	0.087	J	B	ICP_MS
Calcium	5600			ICP_AES	14200			ICP_AES	5010			ICP_AES	4330			ICP_AES
Chromium	11.2		F	ICP_MS	21.9			ICP_MS	7.4			ICP_MS	7.8			ICP_MS
Cobalt	6.5	J	E,F	ICP_MS	12.3	J	E	ICP_MS	5.0	J	E	ICP_MS	4.8	J	E	ICP_MS
Copper	10.9	J-	D,F	ICP_MS	26.8	J-	D	ICP_MS	7.6	J-	D	ICP_MS	8.4	J-	D	ICP_MS
Iron	19400			ICP_AES	25400			ICP_AES	15100			ICP_AES	15900			ICP_AES
Lead	2.4		F	ICP_MS	6.1			ICP_MS	1.8			ICP_MS	3.0			ICP_MS
Magnesium	5780			ICP_AES	8670			ICP_AES	4600			ICP_AES	4370			ICP_AES
Manganese	236			ICP_MS	600			ICP_MS	209			ICP_MS	187			ICP_MS
Mercury	0.022	J	B	Hg	0.092	J	B	Hg	0.042	J	B	Hg	0.022	J	B	Hg
Nickel	9.0		F	ICP_MS	17.2			ICP_MS	6.2			ICP_MS	6.1			ICP_MS
Potassium	3210			ICP_AES	4070			ICP_AES	2440			ICP_AES	3190			ICP_AES
Selenium	2.0	U		ICP_MS	0.14	J	B	ICP_MS	0.071	J	B	ICP_MS	0.046	J	B	ICP_MS
Silver	0.0099	J	B	ICP_MS	0.038	J	B	ICP_MS	0.0096	J	B	ICP_MS	0.011	J	B	ICP_MS
Sodium	445		F	ICP_AES	2250			ICP_AES	593			ICP_AES	222	J	B	ICP_AES
Thallium	0.15	J	B	ICP_MS	0.21	J	B	ICP_MS	0.11	J	B	ICP_MS	0.10	J	B	ICP_MS
Vanadium	28.3		F	ICP_MS	46.5			ICP_MS	19.6			ICP_MS	18.2			ICP_MS
Zinc	44.5		F	ICP_MS	74.8			ICP_MS	33.1			ICP_MS	34.6			ICP_MS

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab Chemtech Consulting Group (CHEM) **SDGs** MY9SN2 and MY9SN3 **Case** 45139 **Site** Jervis B. Webb Co. **SOW** ISM01.3 Metals by ICP-MS, ICP-AES, and Mercury

Sample No:	MY9SP6 D2				MY9SP7				MY9SP8 D3				MY9SP9 D3			
Sample Location:	N/A				N/A				N/A				N/A			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	Soil/Low				Soil/Low				Soil/Low				Soil/Low			
% Solids	91.8				92.6				85.3				85.7			
Units :	mg/kg				mg/kg				mg/kg				mg/kg			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	7900			ICP_AES	6410			ICP_AES	13700			ICP_AES	13900			ICP_AES
Antimony	0.78	R	A,C	ICP_MS	0.78	R	A,C	ICP_MS	0.86	R	A,C	ICP_MS	0.83	R	A,C	ICP_MS
Arsenic	0.64			ICP_MS	0.60			ICP_MS	1.8			ICP_MS	1.7			ICP_MS
Barium	66.1			ICP_MS	66.5			ICP_MS	121			ICP_MS	113			ICP_MS
Beryllium	0.16	J	B,E	ICP_MS	0.15	J	B,E	ICP_MS	0.41	J	B,E	ICP_MS	0.39	J	B,E	ICP_MS
Cadmium	0.073	J	B	ICP_MS	0.060	J	B	ICP_MS	0.16	J	B	ICP_MS	0.16	J	B	ICP_MS
Calcium	4390			ICP_AES	3280			ICP_AES	7090			ICP_AES	7260			ICP_AES
Chromium	7.2			ICP_MS	6.4			ICP_MS	15.8			ICP_MS	15.2			ICP_MS
Cobalt	4.4	J	E	ICP_MS	4.6	J	E	ICP_MS	9.9	J	E	ICP_MS	9.0	J	E	ICP_MS
Copper	7.5	J-	D	ICP_MS	6.3	J-	D	ICP_MS	18.3	J-	D	ICP_MS	17.3	J-	D	ICP_MS
Iron	15900			ICP_AES	12900			ICP_AES	23300			ICP_AES	23400			ICP_AES
Lead	2.8			ICP_MS	1.7			ICP_MS	4.4			ICP_MS	3.9			ICP_MS
Magnesium	4340			ICP_AES	3480			ICP_AES	7060			ICP_AES	7080			ICP_AES
Manganese	177			ICP_MS	173			ICP_MS	411			ICP_MS	366			ICP_MS
Mercury	0.031	J	B	Hg	0.026	J	B	Hg	0.039	J	B	Hg	0.041	J	B	Hg
Nickel	5.5			ICP_MS	5.1			ICP_MS	12.6			ICP_MS	11.9			ICP_MS
Potassium	3160			ICP_AES	2460			ICP_AES	4290			ICP_AES	4410			ICP_AES
Selenium	1.9	U		ICP_MS	2.0	U		ICP_MS	0.052	J	B	ICP_MS	0.065	J	B	ICP_MS
Silver	0.010	J	B	ICP_MS	0.0091	J	B	ICP_MS	0.031	J	B	ICP_MS	0.033	J	B	ICP_MS
Sodium	219	J	B	ICP_AES	173	J	B	ICP_AES	388	J	B	ICP_AES	371	J	B	ICP_AES
Thallium	0.099	J	B	ICP_MS	0.095	J	B	ICP_MS	0.18	J	B	ICP_MS	0.17	J	B	ICP_MS
Vanadium	17.4			ICP_MS	16.7			ICP_MS	36.0			ICP_MS	33.3			ICP_MS
Zinc	31.8			ICP_MS	29.0			ICP_MS	59.7			ICP_MS	54.7			ICP_MS

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab Chemtech Consulting Group (CHEM) **SDGs** MY9SN2 and MY9SN3 **Case** 45139 **Site** Jervis B. Webb Co. **SOW** ISM01.3 Metals by ICP-MS, ICP-AES, and Mercury

Sample No:	MY9SQ0				MY9SQ1				MY9SQ2				MY9SW9			
Sample Location:	N/A				N/A				N/A				N/A			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	Soil/Low				Soil/Low				Soil/Low				Soil/Low			
% Solids	75.6				81				92.9				87.8			
Units :	mg/kg				mg/kg				mg/kg				mg/kg			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	20000			ICP_AES	15700			ICP_AES	7690			ICP_AES	11800			ICP_AES
Antimony	0.95	R	A,C	ICP_MS	0.86	R	A,C	ICP_MS	0.76	R	A,C	ICP_MS	0.79	R	A,C	ICP_MS
Arsenic	2.4			ICP_MS	1.3			ICP_MS	6.3			ICP_MS	1.5			ICP_MS
Barium	168			ICP_MS	93.3			ICP_MS	55.1			ICP_MS	121			ICP_MS
Beryllium	0.48	J	E	ICP_MS	0.32	J	B,E	ICP_MS	0.15	J	B,E	ICP_MS	0.35	J	B,E	ICP_MS
Cadmium	0.24	J	B	ICP_MS	0.12	J	B	ICP_MS	0.034	J	B	ICP_MS	0.14	J	B	ICP_MS
Calcium	19400			ICP_AES	10500			ICP_AES	3800			ICP_AES	6430			ICP_AES
Chromium	21.4			ICP_MS	13.2			ICP_MS	5.9			ICP_MS	14.2			ICP_MS
Cobalt	11.9	J	E	ICP_MS	5.7	J	E	ICP_MS	3.0	J	E	ICP_MS	7.9	J	E	ICP_MS
Copper	23.2	J-	D	ICP_MS	15.1	J-	D	ICP_MS	7.3	J-	D	ICP_MS	16.3	J-	D	ICP_MS
Iron	30600			ICP_AES	25300			ICP_AES	14800			ICP_AES	20900			ICP_AES
Lead	4.7			ICP_MS	3.2			ICP_MS	1.2			ICP_MS	3.8			ICP_MS
Magnesium	11100			ICP_AES	8240			ICP_AES	4400			ICP_AES	6390			ICP_AES
Manganese	426			ICP_MS	233			ICP_MS	152			ICP_MS	334			ICP_MS
Mercury	0.062	J	B	Hg	0.074	J	B	Hg	0.059	J	B	Hg	0.032	J	B	Hg
Nickel	17.3			ICP_MS	9.6			ICP_MS	4.6			ICP_MS	11.3			ICP_MS
Potassium	6100			ICP_AES	4470			ICP_AES	2490			ICP_AES	4210			ICP_AES
Selenium	0.097	J	B	ICP_MS	0.10	J	B	ICP_MS	0.023	J	B	ICP_MS	0.054	J	B	ICP_MS
Silver	0.050	J	B	ICP_MS	0.033	J	B	ICP_MS	0.012	J	B	ICP_MS	0.026	J	B	ICP_MS
Sodium	714			ICP_AES	1200			ICP_AES	562			ICP_AES	309	J	B	ICP_AES
Thallium	0.25	J	B	ICP_MS	0.13	J	B	ICP_MS	0.084	J	B	ICP_MS	0.18	J	B	ICP_MS
Vanadium	44.9			ICP_MS	25.4			ICP_MS	15.8			ICP_MS	32.4			ICP_MS
Zinc	74.1			ICP_MS	43.9			ICP_MS	25.4			ICP_MS	55.0			ICP_MS

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample

Lab Chemtech Consulting Group (CHEM) **SDGs** MY9SN2 and MY9SN3 **Case** 45139 **Site** Jervis B. Webb Co. **SOW** ISM01.3 Metals by ICP-MS, ICP-AES, and Mercury

Sample No:	MY9SX0				MY9SX1				MY9SX2				MY9SX3			
Sample Location:	N/A				N/A				N/A				N/A			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	Soil/Low				Soil/Low				Soil/Low				Soil/Low			
% Solids	93.5				88				79.8				78.6			
Units :	mg/kg				mg/kg				mg/kg				mg/kg			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	7320			ICP_AES	13300			ICP_AES	13500			ICP_AES	18300			ICP_AES
Antimony	0.72	R	A,C	ICP_MS	0.79	R	A,C	ICP_MS	0.89	R	A,C	ICP_MS	0.88	R	A,C	ICP_MS
Arsenic	0.71			ICP_MS	1.6			ICP_MS	1.8			ICP_MS	2.0			ICP_MS
Barium	71.2			ICP_MS	121			ICP_MS	117			ICP_MS	162			ICP_MS
Beryllium	0.21	J	B,E	ICP_MS	0.41	J	E	ICP_MS	0.37	J	B,E	ICP_MS	0.53	J	E	ICP_MS
Cadmium	0.092	J	B	ICP_MS	0.14	J	B	ICP_MS	0.17	J	B	ICP_MS	0.15	J	B	ICP_MS
Calcium	4090			ICP_AES	6950			ICP_AES	8250			ICP_AES	29300			ICP_AES
Chromium	7.9			ICP_MS	15.6			ICP_MS	15.5			ICP_MS	21.6			ICP_MS
Cobalt	5.2	J	E	ICP_MS	9.7	J	E	ICP_MS	8.8	J	E	ICP_MS	12.1	J	E	ICP_MS
Copper	8.7	J-	D	ICP_MS	17.7	J-	D	ICP_MS	19.2	J-	D	ICP_MS	24.7	J-	D	ICP_MS
Iron	14800			ICP_AES	22500			ICP_AES	22900			ICP_AES	26900			ICP_AES
Lead	2.5			ICP_MS	4.2			ICP_MS	4.8			ICP_MS	4.7			ICP_MS
Magnesium	4000			ICP_AES	6650			ICP_AES	7040			ICP_AES	10200			ICP_AES
Manganese	188			ICP_MS	363			ICP_MS	410			ICP_MS	440			ICP_MS
Mercury	0.055	J	B	Hg	0.052	J	B	Hg	0.081	J	B	Hg	0.11	J	B	Hg
Nickel	6.4			ICP_MS	11.9			ICP_MS	11.9			ICP_MS	16.5			ICP_MS
Potassium	2970			ICP_AES	4710			ICP_AES	4310			ICP_AES	4770			ICP_AES
Selenium	0.062	J	B	ICP_MS	0.067	J	B	ICP_MS	0.061	J	B	ICP_MS	0.048	J	B	ICP_MS
Silver	0.013	J	B	ICP_MS	0.032	J	B	ICP_MS	0.031	J	B	ICP_MS	0.066	J	B	ICP_MS
Sodium	199	J	B	ICP_AES	329	J	B	ICP_AES	471			ICP_AES	2530			ICP_AES
Thallium	0.11	J	B	ICP_MS	0.18	J	B	ICP_MS	0.18	J	B	ICP_MS	0.22	J	B	ICP_MS
Vanadium	19.4			ICP_MS	35.2			ICP_MS	33.1			ICP_MS	46.7			ICP_MS
Zinc	36.9			ICP_MS	56.1			ICP_MS	59.1			ICP_MS	71.6			ICP_MS

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample

Lab Chemtech Consulting Group (CHEM) **SDGs** MY9SN2 and MY9SN3 **Case** 45139 **Site** Jervis B. Webb Co. **SOW** ISM01.3 Metals by ICP-MS, ICP-AES, and Mercury

Sample No:	PBS01, PBS02, and PBS04															
Sample Location:	N/A															
Sample Type:	Method_Blank															
Matrix/Level:	Soil/Low															
% Solids																
Units :	mg/kg															
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	20.0	U		ICP_AES												
Antimony	1.0	U	C	ICP_MS												
Arsenic	0.50	U		ICP_MS												
Barium	5.0	U		ICP_MS												
Beryllium	0.50	U		ICP_MS												
Cadmium	0.50	U		ICP_MS												
Calcium	500	U		ICP_AES												
Chromium	1.0	U		ICP_MS												
Cobalt	0.50	U		ICP_MS												
Copper	1.0	U		ICP_MS												
Iron	10.0	U		ICP_AES												
Lead	0.50	U		ICP_MS												
Magnesium	500	U		ICP_AES												
Manganese	0.50	U		ICP_MS												
Mercury	0.10	U		Hg												
Nickel	0.50	U		ICP_MS												
Potassium	500	U		ICP_AES												
Selenium	2.5	U		ICP_MS												
Silver	0.50	U		ICP_MS												
Sodium	500	U		ICP_AES												
Thallium	0.50	U		ICP_MS												
Vanadium	2.5	U		ICP_MS												
Zinc	1.0	U		ICP_MS												

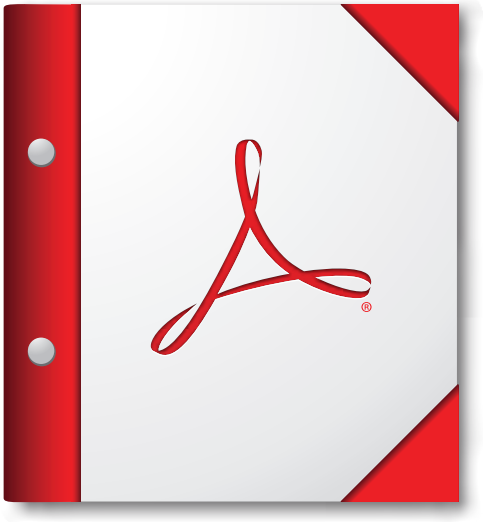
Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared in accordance with the document *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, January 2010.

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



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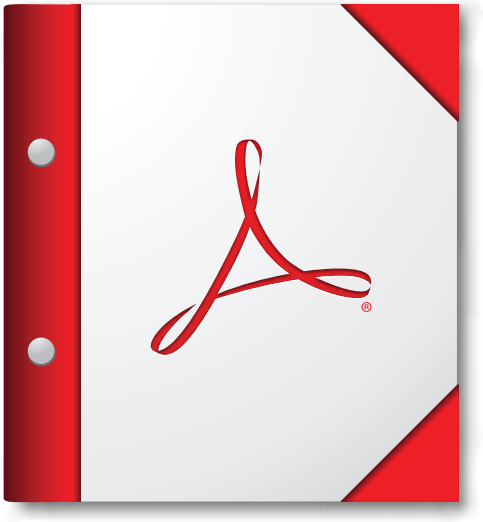

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ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3
USEPA Region 9

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3
USEPA Region 9

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Project Manager
Environmental Services Assistance Team (ESAT) Region 9
ICF International

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106101

DATE: October 9, 2015

SUBJECT: Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B. Webb Co.
Site Account No.:	09 WR QB 00
Case No.:	45321
SDG No.:	Y9WS9
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	CLP Trace Volatiles
Samples:	20 Groundwater Samples
Collection Date:	June 23, 24, and 25, 2015
Reviewer:	Lisa Brooker, ESAT

EXES Data Manager has been updated; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Raymond Flores, CLP PO USEPA Region 6
Steve Remaley, CLP PO USEPA Region 9

CLP PO: [] FYI [X] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - **Tier 3**

Case No.: 45321
SDG No.: Y9WS9
Site: Jervis B. Webb Co.
Laboratory: KAP Technologies Inc. (KAP)
Analysis: CLP Trace Volatiles
Reviewer: Lisa Brooker, ESAT
Date: October 9, 2015

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*.

Field QC

Field Blanks (FB):	None.
Trip Blanks (TB):	Y9X25, Y9X26, and Y9X27.
Equipment Blanks (EB):	Y9X15 and Y9X16.
Background Samples (BG):	None.
Field Duplicates (D1):	Y9WX7 and Y9WX8.

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

Nondetected results for samples Y9WX5 and Y9WY2 are qualified as rejected (R) due to holding time exceedance (see Comment A).

Sampling Issues

1. The cooler temperatures upon receipt at the laboratory on 06/25/15 and 06/26/15 are 15.6°C, 16.3°C, 13.9°C, and 21.5°C, above the ≤ 6°C sample preservation criterion (see Comment C).
2. Contamination above the contract required quantitation limit (CRQL) was found for toluene in equipment blanks Y9X15 and Y9X16. Toluene was not found in the samples.
3. For samples Y9WY6, Y9WX6, and Y9X27, one 40-mL vial was received broken at the laboratory. There was enough sample volume in the other two vials for analysis.
4. A temperature blank was not present in coolers received on 6/25/15 and 6/26/15.

Additional Comments

The recovery for deuterated monitoring compound (DMC) 1,2-dichlorobenzene-d4 exceeds the QC limit of 80-120% in sample Y9WY2 (128%), indicating potential high bias in the detected results; qualifications are not necessary because the associated analytes are not detected in the sample.

1,2-Dibromo-3-chloropropane and 1,2,3-trichlorobenzene were incorrectly identified in the initial calibration (ICAL) dated 7/5/15 and the continuing calibrations (CCV) VSTD00511 and VSTD00512 on instrument B-5973. The laboratory submitted revised data and forms upon request, on 09/29/15.

In addition to laboratory artifacts (retention times of 10.5 and 14.8 minutes), tentatively identified compounds (TICs) were found in samples Y9WS9, Y9WT1, Y9WT2, Y9WT3, Y9WX6, Y9WX7, Y9WX8, Y9WX9, Y9WY2, and Y9WY3 (see attached Form 1Bs).

All standards and spiking solutions were analyzed before the expiration date.

The laboratory performed manual peak integration on chromatograms for some calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *Addition of 1,2,3-Trichloropropane* Modified Analysis 2246.0, June 2, 2015;
- *USEPA Contract Laboratory Program Statement of Work for Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.2, August 2014; and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, August 2014.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.2, August 2014.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	No	A, C
2	GC/MS Tune/GC Performance	Yes	
3	Initial Calibration (ICAL)	No	D
4	Continuing Calibration Verification (CCV)	No	E
5	Laboratory Blanks	Yes	F
6	Field/Equipment/Trip Blanks	Yes	
7	Deuterated Monitoring Compounds (DMCs)	Yes	
8	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	No	G
9	Internal Standards	Yes	
10	Compound Identification	Yes	
11	Compound Quantitation and Reported CRQLs	Yes	B, H
12	System Performance	Yes	
13	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Nondetected results for the following analytes are qualified as rejected and detected results are qualified as estimated due to holding time exceedance and are flagged "R" and "J-", respectively, in Table 1A.

- All analytes in samples Y9WX5 and Y9WY2.

The analysis of samples listed above exceed the 7-day technical holding time for unpreserved water samples as shown below. The pH of Y9WX5 and Y9WY2 are 6.0 and 5.0, respectively, upon receipt at the laboratory.

Sample	Date Collected	Date Analyzed	No. of Days Exceeded
Y9WX5	6/25/15	7/5/15	3
Y9WY2	6/24/15	7/5/15	4

B. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. The results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

C. Results for the following analytes are qualified as estimated due to inadequate sample preservation and are flagged "J-" or "UJ" in Table 1A.

- All analytes in samples Y9WX5 through Y9WY0 and Y9WY2 through Y9WY6; trip blanks Y9X26 and Y9X27; and equipment blank Y9X16.

The following samples were received with cooler temperatures above the ≤ 6°C sample preservation criterion: samples Y9WY2 through Y9WY6, equipment blank Y9X16, and trip blank Y9X26 at 16.3°C; sample Y9WY3 at 15.6°C; samples Y9WX9 and Y9WY0 at 13.9°C; and samples Y9WX5 through Y9WX8 and trip blank Y9X27 at 21.5°C.

D. Results for the following analyte are qualified as estimated due to a large percent relative standard deviation (%RSD) in the initial calibration and are flagged "UJ" in Table 1A.

- 1,2,3-Trichlorobenzene in method blank VBLK6F and storage blank VHBLK01.

The %RSD of 32.8% reported for 1,2,3-trichlorobenzene in the 7/7/15 initial calibration exceeds the 30.0% validation criterion. In addition, the relative response factor (RRF) for CRQL standard (at 0.5 µg/L) of 0.3972 is below the average RRF of 0.6105, indicating low sensitivity at the CRQL.

The %RSD of 37.5% reported for chloroethane in the 7/5/15 initial calibration exceeds the 30.0% validation criterion. Examination of the RRFs indicates that the sensitivity at the CRQL is good; CRQL standard RRF of 0.2799 is above the average RRF of 0.1895. Therefore, in the reviewer's technical judgment, qualification of nondetected results is not necessary. Results for chloroethane in associated samples Y9WX7, Y9WX8, and Y9WX9 and method blank VBLK11 are not qualified because they are nondetects.

E. Results for the following analytes are qualified as estimated due to large percent differences (%Ds) in associated CCVs and are flagged "J" or "UJ" in Table 1A.

- 1,1-Dichloroethene, methylene chloride, 1,1,2-trichloroethane, methyl acetate, 1,1,1-trichloroethane, benzene, trichloroethene, toluene, ethylbenzene, o-xylene, m,p-xylene, styrene, and isopropylbenzene in trip blank Y9X25 and method blank VBLK5Y.

The following values exceed the validation criterion.

Analyte	Date and Time	Criteria	%D
1,1-Dichloroethene	7/4/15 12:21	±20.0%	-21.9
Methylene chloride	7/4/15 12:21	±30.0%	-31.9
1,1,2-Trichloroethane	7/4/15 12:21	±20.0%	-22.9
Methyl acetate	7/4/15 20:18	±50.0%	+70.9
Methylene chloride	7/4/15 20:18	±50.0%	+81.5
1,1,1-Trichloroethane	7/4/15 20:18	±25.0%	+29.0
Benzene	7/4/15 20:18	±25.0%	+25.6
Trichloroethene	7/4/15 20:18	±25.0%	+33.0
Toluene	7/4/15 20:18	±25.0%	+29.0
Ethylbenzene	7/4/15 20:18	±25.0%	+29.0
o-Xylene	7/4/15 20:18	±25.0%	+26.8
m,p-Xylene	7/4/15 20:18	±25.0%	+26.7
Styrene	7/4/15 20:18	±25.0%	+38.8
Isopropylbenzene	7/4/15 20:18	±25.0%	+35.9

F. The following results are qualified as nondetected due to method blank contamination and are flagged "U" in Table 1A.

- Methylene chloride in samples Y9WX7 and Y9WX8.

Methylene chloride is found in method blank VBLK11 (see Table 1A for concentration).

G. Matrix spike/matrix spike duplicate (MS/MSD) recoveries for 1,1-dichloroethene, trichloroethene, benzene, and toluene and relative percent differences (RPDs) for benzene, toluene, and chlorobenzene in QC samples Y9WY3MS and Y9WY3MSD do not meet the criteria for accuracy and precision specified in the SOW, as shown below.

	Y9WY3MS	Y9WY3MSD		QC limit	
Analyte	% Recovery	% Recovery	RPD	RPD	% Recovery
1,1-Dichlororethene	152	---	---	---	61-145
Trichloroethene	198	178	---	---	71-120
Benzene	148	---	18	11	76-127
Toluene	148	126	16	13	76-125
Chlorobenzene	---	---	17	13	--------

Results reported may indicate poor laboratory technique or matrix effects which may interfere with analysis. This uncertainty should be evaluated in the context of project data quality objectives to determine data usability.

H. Sample Y9WT1 was reanalyzed at a 4.0 dilution due to the concentration of 1,2-dichloroethane exceeding the calibration range. The result for 1,2-dichloroethane is reported in Table 1A from the diluted analysis.

Lab KAP Technologies, Inc. (KAP) **SDG** Y9WS9 **Case** 45321 **Site** Jervis B. Webb **SOW** SOM02.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9WS9 JW-CPT09-60 Field_Sample Water/Trace ug/L			Y9WT1 JW-CPT09-90 Field_Sample Water/Trace ug/L			Y9WT2 JW-CPT09-105 Field_Sample Water/Trace ug/L			Y9WT3 JW-CPT09-130 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	0.50	U		0.50	U		0.50	U		0.50	U	
Bromomethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Acetone	5.0	U		5.7			16			18		
Carbon disulfide	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl acetate	0.50	U		0.50	U		0.50	U		0.50	U	
Methylene chloride	0.50	U		0.50	U		0.50	U		0.50	U	
trans-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,2-Dichloroethene	0.50			0.54			0.50	U		0.50	U	
2-Butanone	5.0	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroform	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Cyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
Carbon tetrachloride	0.50	U		0.50	U		0.50	U		0.50	U	
Benzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloroethane	0.82			30		H	0.50	U		0.50	U	
Trichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
Methylcyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloropropane	0.50	U		0.61			0.50	U		0.50	U	
Bromodichloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U		5.0	U	
Toluene	0.50	U		0.50	U		0.50	U		0.50	U	
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	

Lab KAP Technologies, Inc. (KAP) **SDG** Y9WS9 **Case** 45321 **Site** Jervis B. Webb **SOW** SOM02.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9WS9 JW-CPT09-60 Field_Sample Water/Trace ug/L			Y9WT1 JW-CPT09-90 Field_Sample Water/Trace ug/L			Y9WT2 JW-CPT09-105 Field_Sample Water/Trace ug/L			Y9WT3 JW-CPT09-130 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
2-Hexanone	5.0	U		5.0	U		5.0	U		5.0	U	
Dibromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
o-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
m,p-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
Styrene	0.50	U		0.50	U		0.50	U		0.50	U	
Bromoform	0.50	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.32	J	B
1,2,3-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.48	J	B
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U		0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Lab KAP Technologies, Inc. (KAP) **SDG** Y9WS9 **Case** 45321 **Site** Jervis B. Webb **SOW** SOM02.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9WX5 JW-CPT13-60 Field_Sample Water/Trace ug/L			Y9WX6 JW-CPT13-75 Field_Sample Water/Trace ug/L			Y9WX7 (D1) JW-CPT13-90 Field_Sample Water/Trace ug/L			Y9WX8 (D1) SEMW06_02-01-0515 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Chloromethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Vinyl chloride	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Bromomethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Chloroethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C,D	0.50	UJ	C,D
Trichlorofluoromethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,1-Dichloroethene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Acetone	5.0	R	A,C	5.0	UJ	C	3.1	J-	B,C	5.0	UJ	C
Carbon disulfide	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Methyl acetate	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Methylene chloride	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C,F	0.50	UJ	C,F
trans-1,2-Dichloroethene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Methyl tert-butyl ether	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,1-Dichloroethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
cis-1,2-Dichloroethene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
2-Butanone	5.0	R	A,C	5.0	UJ	C	5.0	UJ	C	5.0	UJ	C
Bromochloromethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Chloroform	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,1,1-Trichloroethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Cyclohexane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Carbon tetrachloride	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Benzene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,2-Dichloroethane	3.1	J-	A,C	0.98	J-	C	0.42	J-	B,C	0.41	J-	B,C
Trichloroethene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.23	J-	B,C
Methylcyclohexane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,2-Dichloropropane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Bromodichloromethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
cis-1,3-Dichloropropene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
4-Methyl-2-pentanone	5.0	R	A,C	5.0	UJ	C	5.0	UJ	C	5.0	UJ	C
Toluene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
trans-1,3-Dichloropropene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,1,2-Trichloroethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9WX5 JW-CPT13-60 Field_Sample Water/Trace ug/L			Y9WX6 JW-CPT13-75 Field_Sample Water/Trace ug/L			Y9WX7 (D1) JW-CPT13-90 Field_Sample Water/Trace ug/L			Y9WX8 (D1) SEMW06_02-01-0515 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
2-Hexanone	5.0	R	A,C	5.0	UJ	C	5.0	UJ	C	5.0	UJ	C
Dibromochloromethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,2-Dibromoethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Chlorobenzene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Ethylbenzene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
o-Xylene	1.7	J-	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
m,p-Xylene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Styrene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Bromoform	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
Isopropylbenzene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,1,2,2-Tetrachloroethane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,3-Dichlorobenzene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,4-Dichlorobenzene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,2-Dichlorobenzene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,2-Dibromo-3-chloropropane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,2,4-Trichlorobenzene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,2,3-Trichlorobenzene	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C
1,2,3-Trichloropropane	0.50	R	A,C	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Lab KAP Technologies, Inc. (KAP) **SDG** Y9WS9 **Case** 45321 **Site** Jervis B. Webb **SOW** SOM02.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9WX9 JW-CPT13-105 Field_Sample Water/Trace ug/L			Y9WY0 JW-CPT13-130 Field_Sample Water/Trace ug/L			Y9WY2 JW-CPT14-60 Field_Sample Water/Trace ug/L			Y9WY3 JW-CPT14-75 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Chloromethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Vinyl chloride	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Bromomethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Chloroethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Trichlorofluoromethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,1-Dichloroethene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	2.4	J-	C,G
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Acetone	5.0	UJ	C	5.0	UJ	C	8.5	J-	A,C	5.0	UJ	C
Carbon disulfide	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Methyl acetate	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Methylene chloride	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
trans-1,2-Dichloroethene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Methyl tert-butyl ether	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,1-Dichloroethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.83	J-	C
cis-1,2-Dichloroethene	0.50	UJ	C	0.50	UJ	C	3.8	J-	A,C	2.7	J-	C
2-Butanone	5.0	UJ	C	5.0	UJ	C	5.0	R	A,C	5.0	UJ	C
Bromochloromethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Chloroform	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,1,1-Trichloroethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Cyclohexane	0.50	UJ	C	0.50	UJ	C	1.1	J-	A,C	1.4	J-	C
Carbon tetrachloride	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Benzene	0.50	UJ	C	0.50	UJ	C	9.5	J-	A,C	0.50	UJ	C,G
1,2-Dichloroethane	1.3	J-	C	0.50	UJ	C	0.50	R	A,C	17	J-	C
Trichloroethene	0.50	UJ	C	0.50	UJ	C	8.6	J-	A,C	8.1	J-	C,G
Methylcyclohexane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,2-Dichloropropane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Bromodichloromethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
cis-1,3-Dichloropropene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
4-Methyl-2-pentanone	5.0	UJ	C	5.0	UJ	C	5.0	R	A,C	5.0	UJ	C
Toluene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C,G
trans-1,3-Dichloropropene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,1,2-Trichloroethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C

Lab KAP Technologies, Inc. (KAP) **SDG** Y9WS9 **Case** 45321 **Site** Jervis B. Webb **SOW** SOM02.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9WX9 JW-CPT13-105 Field_Sample Water/Trace ug/L			Y9WY0 JW-CPT13-130 Field_Sample Water/Trace ug/L			Y9WY2 JW-CPT14-60 Field_Sample Water/Trace ug/L			Y9WY3 JW-CPT14-75 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
2-Hexanone	5.0	UJ	C	5.0	UJ	C	5.0	R	A,C	5.0	UJ	C
Dibromochloromethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,2-Dibromoethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Chlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C,G
Ethylbenzene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
o-Xylene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
m,p-Xylene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Styrene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Bromoform	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
Isopropylbenzene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,1,2,2-Tetrachloroethane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,3-Dichlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,4-Dichlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,2-Dichlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,2-Dibromo-3-chloropropane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,2,4-Trichlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,2,3-Trichlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C
1,2,3-Trichloropropane	0.50	UJ	C	0.50	UJ	C	0.50	R	A,C	0.50	UJ	C

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Lab KAP Technologies, Inc. (KAP) **SDG** Y9WS9 **Case** 45321 **Site** Jervis B. Webb **SOW** SOM02.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9WY4 JW-CPT14-90 Field_Sample Water/Trace ug/L			Y9WY5 JW-CPT14-105 Field_Sample Water/Trace ug/L			Y9WY6 JW-CPT14-130 Field_Sample Water/Trace ug/L			Y9X15 (EB) JW-EL02-0615 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Chloromethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Vinyl chloride	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Bromomethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Chloroethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Trichlorofluoromethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,1-Dichloroethene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Acetone	5.0	UJ	C	5.0	UJ	C	5.0	UJ	C	5.0	U	
Carbon disulfide	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Methyl acetate	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Methylene chloride	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
trans-1,2-Dichloroethene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Methyl tert-butyl ether	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,1-Dichloroethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
cis-1,2-Dichloroethene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
2-Butanone	5.0	UJ	C	5.0	UJ	C	5.0	UJ	C	5.0	U	
Bromochloromethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Chloroform	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,1,1-Trichloroethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Cyclohexane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Carbon tetrachloride	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Benzene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,2-Dichloroethane	0.50	UJ	C	1.7	J-	C	0.50	UJ	C	0.50	U	
Trichloroethene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Methylcyclohexane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,2-Dichloropropane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Bromodichloromethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
cis-1,3-Dichloropropene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
4-Methyl-2-pentanone	5.0	UJ	C	5.0	UJ	C	5.0	UJ	C	5.0	U	
Toluene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.76		
trans-1,3-Dichloropropene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,1,2-Trichloroethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	

Lab KAP Technologies, Inc. (KAP) **SDG** Y9WS9 **Case** 45321 **Site** Jervis B. Webb **SOW** SOM02.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9WY4 JW-CPT14-90 Field_Sample Water/Trace ug/L			Y9WY5 JW-CPT14-105 Field_Sample Water/Trace ug/L			Y9WY6 JW-CPT14-130 Field_Sample Water/Trace ug/L			Y9X15 (EB) JW-EL02-0615 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
2-Hexanone	5.0	UJ	C	5.0	UJ	C	5.0	UJ	C	5.0	U	
Dibromochloromethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,2-Dibromoethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Chlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Ethylbenzene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
o-Xylene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
m,p-Xylene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Styrene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Bromoform	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
Isopropylbenzene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,1,2,2-Tetrachloroethane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,3-Dichlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,4-Dichlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,2-Dichlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,2-Dibromo-3-chloropropane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,2,4-Trichlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,2,3-Trichlorobenzene	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	
1,2,3-Trichloropropane	0.50	UJ	C	0.50	UJ	C	0.50	UJ	C	0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Lab KAP Technologies, Inc. (KAP) **SDG** Y9WS9 **Case** 45321 **Site** Jervis B. Webb **SOW** SOM02.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9X16 (EB) JW-EL03-0615 Field_Sample Water/Trace ug/L			Y9X25 (TB) JW-RL07-0615 Field_Sample Water/Trace ug/L			Y9X26 (TB) JW-RL08-0615 Field_Sample Water/Trace ug/L			Y9X27 (TB) JW-RL09-0615 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Chloromethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Vinyl chloride	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Bromomethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Chloroethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Trichlorofluoromethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,1-Dichloroethene	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Acetone	5.0	UJ	C	5.0	U		5.0	UJ	C	5.0	UJ	C
Carbon disulfide	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Methyl acetate	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
Methylene chloride	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
trans-1,2-Dichloroethene	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Methyl tert-butyl ether	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,1-Dichloroethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
cis-1,2-Dichloroethene	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
2-Butanone	5.0	UJ	C	5.0	U		5.0	UJ	C	5.0	UJ	C
Bromochloromethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Chloroform	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,1,1-Trichloroethane	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
Cyclohexane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Carbon tetrachloride	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Benzene	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
1,2-Dichloroethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Trichloroethene	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
Methylcyclohexane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,2-Dichloropropane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Bromodichloromethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
cis-1,3-Dichloropropene	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
4-Methyl-2-pentanone	5.0	UJ	C	5.0	U		5.0	UJ	C	5.0	UJ	C
Toluene	1.1	J-	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
trans-1,3-Dichloropropene	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,1,2-Trichloroethane	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C

Lab KAP Technologies, Inc. (KAP) **SDG** Y9WS9 **Case** 45321 **Site** Jervis B. Webb **SOW** SOM02.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9X16 (EB) JW-EL03-0615 Field_Sample Water/Trace ug/L			Y9X25 (TB) JW-RL07-0615 Field_Sample Water/Trace ug/L			Y9X26 (TB) JW-RL08-0615 Field_Sample Water/Trace ug/L			Y9X27 (TB) JW-RL09-0615 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
2-Hexanone	5.0	UJ	C	5.0	U		5.0	UJ	C	5.0	UJ	C
Dibromochloromethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,2-Dibromoethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Chlorobenzene	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Ethylbenzene	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
o-Xylene	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
m,p-Xylene	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
Styrene	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
Bromoform	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
Isopropylbenzene	0.50	UJ	C	0.50	UJ	E	0.50	UJ	C	0.50	UJ	C
1,1,2,2-Tetrachloroethane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,3-Dichlorobenzene	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,4-Dichlorobenzene	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,2-Dichlorobenzene	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,2-Dibromo-3-chloropropane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,2,4-Trichlorobenzene	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,2,3-Trichlorobenzene	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,2,3-Trichloropropane	0.50	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VBLK11 Method_Blank Water/Trace ug/L			VBLK5W Method_Blank Water/Trace ug/L			VBLK5Y Method_Blank Water/Trace ug/L			VBLK6A Method Blank Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	0.50	U		0.50	U		0.50	U		0.50	U	
Bromomethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	0.50	U		0.50	U		0.50	UJ	E	0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Acetone	5.0	U		5.0	U		5.0	U		5.0	U	
Carbon disulfide	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl acetate	0.50	U		0.50	U		0.50	UJ	E	0.50	U	
Methylene chloride	0.20	J	B	0.50	U		0.50	UJ	E	0.50	U	
trans-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
2-Butanone	5.0	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroform	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	UJ	E	0.50	U	
Cyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
Carbon tetrachloride	0.50	U		0.50	U		0.50	U		0.50	U	
Benzene	0.50	U		0.50	U		0.50	UJ	E	0.50	U	
1,2-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichloroethene	0.50	U		0.50	U		0.50	UJ	E	0.50	U	
Methylcyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloropropane	0.50	U		0.50	U		0.50	U		0.50	U	
Bromodichloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U		5.0	U	
Toluene	0.50	U		0.50	U		0.50	UJ	E	0.50	U	
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	UJ	E	0.50	U	

Lab KAP Technologies, Inc. (KAP) **SDG** Y9WS9 **Case** 45321 **Site** Jervis B. Webb **SOW** SOM02.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VBLK11 Method_Blank Water/Trace ug/L			VBLK5W Method_Blank Water/Trace ug/L			VBLK5Y Method_Blank Water/Trace ug/L			VBLK6A Method Blank Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
2-Hexanone	5.0	U		5.0	U		5.0	U		5.0	U	
Dibromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	0.50	U		0.50	U		0.50	UJ	E	0.50	U	
o-Xylene	0.50	U		0.50	U		0.50	UJ	E	0.50	U	
m,p-Xylene	0.50	U		0.50	U		0.50	UJ	E	0.50	U	
Styrene	0.50	U		0.50	U		0.50	UJ	E	0.50	U	
Bromoform	0.50	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	0.50	U		0.50	U		0.50	UJ	E	0.50	U	
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U		0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VBLK6C Method_Blank Water/Trace ug/L			VBLK6F Method_Blank Water/Trace ug/L			VHBLK01 Storage_Blank Water/Trace ug/L					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**			
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U				
Chloromethane	0.50	U		0.50	U		0.50	U				
Vinyl chloride	0.50	U		0.50	U		0.50	U				
Bromomethane	0.50	U		0.50	U		0.50	U				
Chloroethane	0.50	U		0.50	U		0.50	U				
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U				
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U				
Acetone	5.0	U		5.0	U		5.0	U				
Carbon disulfide	0.50	U		0.50	U		0.50	U				
Methyl acetate	0.50	U		0.50	U		0.50	U				
Methylene chloride	0.50	U		0.50	U		0.50	U				
trans-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U				
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U				
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U				
cis-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U				
2-Butanone	5.0	U		5.0	U		5.0	U				
Bromochloromethane	0.50	U		0.50	U		0.50	U				
Chloroform	0.50	U		0.50	U		0.50	U				
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U				
Cyclohexane	0.50	U		0.50	U		0.50	U				
Carbon tetrachloride	0.50	U		0.50	U		0.50	U				
Benzene	0.50	U		0.50	U		0.50	U				
1,2-Dichloroethane	0.50	U		0.50	U		0.50	U				
Trichloroethene	0.50	U		0.50	U		0.50	U				
Methylcyclohexane	0.50	U		0.50	U		0.50	U				
1,2-Dichloropropane	0.50	U		0.50	U		0.50	U				
Bromodichloromethane	0.50	U		0.50	U		0.50	U				
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U				
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U				
Toluene	0.50	U		0.50	U		0.50	U				
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U				
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U				

Lab KAP Technologies, Inc. (KAP) **SDG** Y9WS9 **Case** 45321 **Site** Jervis B. Webb **SOW** SOM02.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VBLK6C Method_Blank Water/Trace ug/L			VBLK6F Method_Blank Water/Trace ug/L			VHBLK01 Storage_Blank Water/Trace ug/L					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**			
Tetrachloroethene	0.50	U		0.50	U		0.50	U				
2-Hexanone	5.0	U		5.0	U		5.0	U				
Dibromochloromethane	0.50	U		0.50	U		0.50	U				
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U				
Chlorobenzene	0.50	U		0.50	U		0.50	U				
Ethylbenzene	0.50	U		0.50	U		0.50	U				
o-Xylene	0.50	U		0.50	U		0.50	U				
m,p-Xylene	0.50	U		0.50	U		0.50	U				
Styrene	0.50	U		0.50	U		0.50	U				
Bromoform	0.50	U		0.50	U		0.50	U				
Isopropylbenzene	0.50	U		0.50	U		0.50	U				
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U				
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U				
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U				
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U				
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U				
1,2,4-Trichlorobenzene	0.50	U		0.31	J		0.50	U				
1,2,3-Trichlorobenzene	0.50	U		0.34	J	D	0.50	UJ	D			
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U				

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9WS9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45321 MA No.: 2446.0 SDG No.: Y9WS9

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1059.01

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32227

% Solids: _____ Date Received: 06/24/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 07/03/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		Unknown-01	2.22	0.39	J
02	~~———~~	~~Unknown-02~~	~~2.05~~	~~0.61~~	~~J~~ B
03	~~———~~	~~Unknown-03~~	~~3.86~~	~~1.1~~	~~J~~ B
04		~~Unknown-04~~ C_5H_{10} Hydrocarbon	4.21	0.49	N J
05	~~000463-71-8~~	~~cis-1,3-dichloropropene-d4~~	~~10.55~~	~~0.6~~	~~NJ~~ B
06					
07		10/1/15 LB			
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9WT1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45321 MA No.: 2446.0 SDG No.: Y9WS9

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1059.02

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32232

% Solids: _____ Date Received: 06/24/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 07/03/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		~~Unknown-01~~ C_4H_{10} Hydrocarbon	2.08	2.1	NJ
02		~~Unknown-02~~ ↓	2.21	2.8	NJ
03		~~Unknown-03~~ C_5H_{12} Hydrocarbon	2.72	2.3	NJ
04		~~Unknown-04~~ C_5H_{10} Hydrocarbon	4.21	1.4	NJ
05	~~000463-71-8~~	~~cis-1,3-dichloropropene-d4~~	10.55	8.1	NJB
06					
07		10/1/15 CB			
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9WT2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45321 MA No.: 2446.0 SDG No.: Y9WS9

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1059.03

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32228

% Solids: _____ Date Received: 06/24/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 07/03/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01	~~-~~	~~Unknown-01~~	~~2.87~~	~~0.74~~	~~J~~ BJ
02	~~004885-02-3~~	~~cis-1,3-dichloropropene-d4~~	~~10.55~~	~~8.2~~	~~NJ~~ B
03	000124-13-0	~~Unknown-02~~ Octanal	16.24	5.3	NJ
04	000124-19-6	~~Unknown-03~~ Nonanal	17.34	4.5	NJ
05	~~000124-19-6~~	Nonanal	~~17.35~~	~~1.1~~	~~NJ~~
06		10/1/15 LB			
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9WT3

Lab Name: KAP TECHNOLOGIES. INC. Contract: EPW14031

Lab Code: KAP Case No.: 45321 MA No.: 2446.0 SDG No.: Y9WS9

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1059.04

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32230

% Solids: _____ Date Received: 06/24/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 07/03/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		~~Unknown-01~~	~~10.13~~	~~5.0~~	~~J~~
02	~~000463-71-8~~	~~cis-1,3-dichloropropene-d4~~	~~10.55~~	~~160~~	~~NJB~~
03		~~Unknown-02~~	~~10.76~~	~~2.6~~	~~J~~
04	000124-13-0	~~Unknown-03~~ Octanal	16.25	1.5	NJ
05	000124-19-6	~~Unknown-04~~ Nonanal	17.34	1.5	NJ
06					
07		10/1/15 LB			
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9WX6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45321 MA No.: 2446.0 SDG No.: Y9WS9

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1063.02

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32268

% Solids: _____ Date Received: 06/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 07/05/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		~~Unknown-01~~ C9H10 Hydrocarbon	2.21	0.96	NJ
02		~~Unknown-02~~	~~2.85~~	~~1.7~~	~~J~~ B
03		~~Unknown-03~~ C5H10 Hydrocarbon	4.21	1.0	NJ
04	~~000542-88-1~~	cis-1,3-dichloropropene-d4	~~10.55~~	8.3	NJB
05		~~Unknown-04~~	~~14.82~~	1.1	JB
06	000124-13-0	Unknown-05 Octanal	16.24	1.1	NJ
07	~~-~~	~~Unknown-06~~	~~18.75~~	~~1.1~~	~~J~~
08		~~Unknown-07~~	~~20.50~~	~~1.1~~	~~J~~
09					
10		10/1/15 LB			
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9WX7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45321 MA No.: 2446.0 SDG No.: Y9WS9

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1063.03

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: B01089

% Solids: _____ Date Received: 06/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 07/05/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: _____ Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		~~Unknown-01~~ C5H10 Hydrocarbon	3.13	0.67	NJ
02	~~000463-71-8~~	~~cis-1,3-dichloropropene-d4~~	~~9.47~~	~~9.2~~	~~NJB~~
03					
04		10/1/15 LB			
05					
06					
07					
08					
09					
10					
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FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9WX8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45321 MA No.: 2446.0 SDG No.: Y9WS9

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1063.04

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: B01090

% Solids: _____ Date Received: 06/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 07/05/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: _____ Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		~~Unknown-01~~ C5H10 Hydrocarbon	3.13	0.68	NJ
02	000463-71-8	~~cis-1,3-dichloropropene-d4~~	~~9.47~~	~~9.6~~	~~NJB~~
03					
04		10/16/15			
05					
06					
07					
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FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9WX9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45321 MA No.: 2446.0 SDG No.: Y9WS9

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1063.05

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: B01091

% Solids: _____ Date Received: 06/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 07/05/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: _____ Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		~~Unknown 01~~ C5H10 Hydrocarbon	3.13	0.76	NJ
02	~~000463-71-8~~	~~cis-1,3-dichloropropene-d4~~	9.47	10	NJ
03					
04		10/1/15 LB			
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FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9WY2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45321 MA No.: 2446.0 SDG No.: Y9WS9

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1061.01

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32257

% Solids: _____ Date Received: 06/25/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 07/05/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		~~Unknown-01~~	~~1.59~~	~~9.3~~	~~J~~
02		~~Unknown-02~~	~~1.63~~	~~3.5~~	~~J~~
03		~~Unknown-03~~	~~1.65~~	~~2.9~~	~~J~~
04		~~Unknown-04~~	~~1.68~~	~~4.0~~	~~J~~
05		Unknown-05	1.79	32	J
06		~~Unknown-06~~	~~1.86~~	~~13~~	~~J~~
07		~~Unknown-07~~	2.08	0.21	J
08		Unknown-08 C4H8 Hydrocarbon	2.21	1.3	NJ
09		~~Unknown-09~~	~~3.87~~	~~1.5~~	~~J~~ B
10		Unknown-10 C5H10 Hydrocarbon	4.21	2.8	NJ
11		~~Unknown-11~~	~~4.57~~	~~0.41~~	~~J~~
12		Unknown-12 C6H12 Hydrocarbon	5.84	0.89	NJ
13	~~094885-03-3~~	~~cis 1,3 dichloropropene d4~~	~~10.55~~	~~8.8~~	NIB
14	000124-13-0	Unknown-13 Octanal	16.24	0.73	NJ
15	000124-19-6	Unknown-14 Nonanal	17.35	0.37	NJ
16					
17		12/1/15 LB			
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9WY3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031
Lab Code: KAP Case No.: 45321 MA No.: 2446.0 SDG No.: Y9WS9
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: S-1061.02
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32263
% Solids: _____ Date Received: 06/25/2015
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
Extract Concentrated: (Y/N) N Date Analyzed: 07/05/2015
Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
Heated Purge: (Y/N) N Extraction Type: _____
Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0
Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		~~Unknown-01~~ C4H10 Hydrocarbon	2.08	2.0	NJ
02		Unknown-02 ↓	2.22	1.7	NJ
03		Unknown-03 C5H12 Hydrocarbon	2.73	3.1	NJ
04		~~Unknown-04~~	~~2.85~~	~~1.1~~	~~JB~~
05		Unknown-05 C5H10 Hydrocarbon	4.22	4.2	NJ
06		Unknown-06 unknown	4.56	0.55	J
07		Unknown-07 unknown	5.84	0.95	J
08		Unknown-08 unknown	7.13	1.0	J
09		Unknown-09 C7H12 Hydrocarbon	9.57	1.9	NJ
10	~~000096-23-1~~	~~cis-1,3-dichloropropene-d4~~	~~10.55~~	~~6.3~~	~~NJB~~
11		Unknown-10 C8H14	10.73	0.82	NJ
12		Unknown-11 ↓	11.12	2.2	NJ
13		Unknown-12 ↓	11.86	0.55	NJ
14		~~Unknown-13~~	~~14.68~~	~~0.49~~	~~J~~
15		Unknown-14 unknown	16.24	0.61	J
16					
17					
18		10/1/15 LB			
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 3, SFD-7-3 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction Form No.: 10106159
Date:	May 2, 2017
Re:	Review of Analytical Data, **Tier 2**

JOSEPH EIDELBERG Digitally signed by JOSEPH EIDELBERG Date: 2017.05.23 16:29:41 -07'00'

This memorandum details the findings from Tier 2 review of the following analytical data:

Site:	Jervis B. Webb Company
Site Account No.:	09 WR QB 00
Case No.:	45675
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	CLP Trace Volatiles (TVOA) and 1,4-Dioxane by Semivolatile (SVOA) Selective Ion Monitoring (SIM)
Reviewer:	Santiago Lee, ESAT

SDG No.	Samples	Collection Date
Y9X31	8 Groundwater	October 28 and 29, 2015

This report was prepared in accordance with the following documents:
- *Addition of 1,2,3-Trichloropropane,* Modified Analysis 2246.0, June 2, 2015;
- *1,4-Dioxane Analysis with Lower CRQL,* Modified Analysis 2245.0, June 2, 2015;
- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.2, August 2014; and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, August 2014.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.2.

As instructed in the Technical Direction Form No. 10106159, the Tier 2 review focused on:
- Manual integrations;
- Reconstructed ion chromatograms (RICs) and mass spectra (i.e. false positives and false negatives); and
- Reporting errors and questionable data.

The final point was accomplished through review of SDG narratives, sample preservation, QC summary forms, and retention times for calibration. Consistency between reruns or dilutions, accuracy of the QC summary reports compared to the raw data, and correctness of the results (agreement with raw data) in the Sample Summary Reports provided in the EXES Data Manager were also confirmed. A narrative of the findings is presented below.

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Manual Integrations:

Overall chromatography is poor for both SVOA-SIM and TVOA analysis: peak tailing, poor sensitivity, and loss of peak shape at low concentrations and incomplete separation of target analytes are observed. The laboratory performed manual peak integration for samples and initial calibrations, continuing calibration verifications (CCVs), and deuterated monitoring compounds (DMCs) at concentrations ranging from the contract required quantitation limit (CRQL) to the midrange of the calibration. In many instances, manual integration documentation is insufficient to confirm the start and end points of the integration or the integration time (i.e. width of the peak). However, the documentation is sufficient to indicate that gross integration errors are not present.

False Positives and False Negatives:

Some peaks were not reported as tentatively identified compounds (TICs) on Form 1B. The laboratory provided mass spectra and revised Form 1Bs upon request on 04/21/17. The mass spectra indicate that none of the TICs are target analytes.

The review of chromatograms and mass spectra indicates that there are no false positives or false negatives for target analytes.

Reporting Errors and Questionable Data:

For sample Y9X10, trans-1,3-dichloropropene-d4 was incorrectly identified and 2% recovery was reported on Form 2B. The laboratory provided revised data (Form 2B, quantitation report, and chromatogram) upon request on 04/21/17 to report the corrected recovery of 81%.

The chain of custody records indicate that the 40-mL vials are unpreserved whereas the SDG Narrative states “pH <2.” No effect on data quality is expected since samples were analyzed within the holding time for unpreserved samples (i.e., 7 days).

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 2, SFD-7-2 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106150
Date:	March 9, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B Webb Company
Site Account No.:	09 WR QB 00
Case No.:	46660
SDG No.:	YA8N3
Laboratory:	Shealy Environmental Services, Inc. (EQI)
Analysis:	CLP Trace Volatiles
Samples:	19 Groundwater Samples
Collection Date:	November 28, 29, and 30, 2016
Reviewer:	Lisa Brooker, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Frietas, CLP COR USEPA Region 9
Cynthia Gurley, CLP PO USEPA Region 4

CLP PO: [] FYI [X] Action

SAMPLING ISSUES: [X] Yes [ ] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46660
SDG No.: YA8N3
Site: Jervis B Webb Company
Laboratory: Shealy Environmental Services (EQI)
Analysis: CLP Trace Volatiles
Reviewer: Lisa Brooker, ESAT
Date: March 9, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	YA8N4.
Trip Blanks (TB):	YA8N3, YA8P0, and YA8P5.
Background Samples (BG):	None.
Field Duplicates (D1):	YA8Q5 and YA8Q6.
Field Duplicates (D2):	YA8N0 and YA8P7.

CLP PO Action

Nondetected results for acetone in trip blank YA8P5 and method blank VBLKOR are qualified as rejected (R) due to a low relative response factor (<0.010) in a continuing calibration verification (see Comment A).

Sampling Issues

1. Coolers received by the laboratory on November 30 and December 1, 2016 had temperatures of 6.9 and 7.3°C, which are above the ≤ 6°C sample preservation criterion (see Additional Comments).
2. For sample YA8Q1 and trip blank YA8P5, one broken vial was received by the laboratory. There was enough sample volume remaining for analysis of the sample YA8Q1.

Additional Comments

As noted in Sampling Issues above, samples YA8Q4, YA8Q7, YA8N0, and YA8P7 were received at temperatures slightly above the criterion. Since this exceedance is minor and of short duration (samples were received one to two days after collection), qualification is not required.

The closing continuing calibration verification (CCV) VSTD005OU analyzed on December 2, 2016 failed acceptance criteria. The laboratory re-analyzed samples YA8N0, YA8P7, and YA8P8; results from the re-analyses were reported in the EXES Data Manager. The trip blank YA8P5 was re-analyzed at a dilution; the undiluted result was reported in the EXES Data Manager on March 1, 2017.

The recovery and the RPD for trichloroethene in QC sample YA8N6MS do not meet the criteria for accuracy and precision specified in the SOW. The recovery and RPD are not meaningful since the concentration of trichloroethene in sample YA8N6 (2,300 µg/L) is much higher than the spike concentration of 100 µg/L.

The preparation logbook pages for some solutions were missing from the data package. The laboratory provided the missing pages upon request on February 23, 2017. All standards and spiking solutions were analyzed before the expiration date.

In addition to laboratory artifacts (retention times of 1.6, 2.1, 2.2, 9.7, 10.6, 11.9, 12.6, 13.3, 13.9, 14.5, and 15.9 minutes), tentatively identified compounds (TICs) were found in samples YA8N0, YA8P6, YA8P7, YA8P8, YA8Q0, YA8Q1, YA8Q2, YA8Q4, YA8Q7, and YA8Q8 (see attached Form 1Bs).

The laboratory performed manual peak integration for some calibration and sample chromatograms. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *Modified Analysis, Addition of Analyte 1,2,3-Trichloropropane,* MA 2446.2, November 4, 2016;
- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration,* SOM02.3, September 2015 and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, September 2016.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration,* SOM02.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	GC/MS Instrument Performance Check	Yes	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	No	A, C
6	Laboratory Blanks	Yes	
7	Field/Equipment/Trip Blanks	Yes	
8	Deuterated Monitoring Compound (DMC)	No	D
9	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Yes	
10	Internal Standard	Yes	
11	Compound Identification	Yes	
12	Compound Quantitation and Reported CRQL	Yes	B, E
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	Yes	
15	Overall Assessment of Data	Yes	

III. VALIDITY AND COMMENTS

A. Nondetected results for the following analyte are qualified as rejected due to a low relative response factor (RRF) in an associated continuing calibration verification (CCV) and are flagged "R."

- Acetone in trip blank YA8P5 and method blank VBLKOR.

The RRF of 0.009 reported for acetone in December 2, 2016 00:33 CCV is less than the 0.010 validation criterion. Results listed above are considered unusable (R) according to the National Functional Guidelines.

B. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

C. Results for the following analytes are qualified as estimated due to large percent differences (%Ds) in a continuing calibration verification (CCV) and are flagged "J" or "UJ."

- Acetone, methyl acetate, and 2-butanone in sample YA8P6.
- Methyl acetate and 2-butanone in trip blank YA8P5 and method blank VBLKOR.

The %Ds of -69.9%, -58.0%, and -71.2% reported for acetone, methyl acetate, and 2-butanone, respectively, in the December 2, 2016 00:33 CCV exceeds the ±50.0% validation criterion for closing CCVs.

D. Results for the following analytes are qualified as estimated due to low deuterated monitoring compound (DMC) recoveries and are flagged "UJ."

{2-Butanone-d5}
- Acetone and 2-butanone in sample YA8Q2.

{trans-1,3-Dichloropropene-d4}
- cis-1,3-Dichloropropene, trans-1,3-dichloropropene, and 1,1,2-trichloroethane in sample YA8P8.

DMC recoveries for the qualifications listed above are shown below

Sample	DMC	% Recovery	QC Limit
YA8Q2	2-Butanone-d5	37	40-130
YA8P8	trans-1,3-Dichloropropene-d4	50	55-130

Since qualified results are nondetected, false negatives may exist. The samples listed above were not reanalyzed.

Recoveries for DMC vinyl chloride-d3 exceed QC limit in sample YA8Q2 (143%) and trip blank YA8P5 (134%), indicating potential high bias in detected results; qualification is not necessary because the associated target analyte is not detected.

E. Samples YA8N5, YA8N6, YA8P9, YA8Q5, and YA8Q6 were analyzed at 20-, 20-, 50-, 20-, and 20-fold dilutions, respectively, due to high levels of target analytes. The quantitation limits for these samples have been raised to account for the dilution.

The samples listed in the table below required further dilution to obtain results within the calibration range for the indicated analytes. Results for these analytes are reported from the higher diluted analyses.

Sample	Dilution	Analyte
YA8N5	200	cis-1,2-Dichloroethene, trichloroethene
YA8N6	200	Trichloroethene
YA8P6	5.0	cis-1,2-Dichloroethene, trichloroethene
YA8P9	500	cis-1,2-Dichloroethene
YA8Q4	10	cis-1,2-Dichloroethene, trichloroethene
YA8Q5	200	cis-1,2-Dichloroethene
YA8Q6	200	cis-1,2-Dichloroethene
YA8Q7	10	cis-1,2-Dichloroethene

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," September 2016 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8N0RE

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N3
Level: TRACE
Lab Sample ID: RK29023-019
Lab File ID: 81202C11
Date Received: 12/01/2016
Date Extracted:
Date Analyzed: 12/02/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.62	7.6	J
02		Unknown-02	1.77	1.6	J
03		~~Unknown-03~~	~~2.06~~	~~0.50~~	~~J~~
04		~~Unknown-04~~	~~2.15~~	~~0.59~~	~~J~~
05		Unknown-05	3.88	0.57	J
06					
07					
08		Unknown-06	12.13	1.1	J
09					
10					
11		~~Unknown-07~~	~~13.86~~	~~1.6~~	~~J~~
12		~~Unknown-08~~	~~14.50~~	~~29~~	~~J~~
13					
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26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	8.6	J

column bleed

B

column bleed

2/14/17
UB

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P6

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
Lab Code: EQI Case No.: 46660 MA No.: 2446.2 SDG No.: YA8N3
Analytical Method: Trace VOA Level: TRACE
Matrix: Water Lab Sample ID: RK29023-022
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81201B13
% Solids: Date Received: 12/01/2016
GC Column: DB-624 ID: 0.25 (mm) Date Extracted:
Extract Concentrated: (Y/N) Date Analyzed: 12/01/2016
Soil Aliquot (VOA): (uL) Extract Volume: (uL)
Heated Purge: (Y/N) N Extraction Type: PT
Purge Volume: 25.0 (mL) Injection Volume:
Cleanup Types: pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.42	1.0	J
02		Unknown-02	3.88	2.0	J
03		Unknown-03	5.31	1.6	J
04		Unknown-04	7.71	0.67	J
05	~~141-62-8~~	~~Tetrasiloxane, decamethyl-~~	~~12.58~~	~~1.2~~	~~NJ~~
06	~~—~~	~~Unknown-05~~	~~13.86~~	~~6.80~~	~~J~~
07	~~—~~	~~Unknown-06~~	~~15.91~~	~~1.8~~	~~J~~
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

column bleed.
2/14/17
LB

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P7RE

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N3
Level: TRACE
Lab Sample ID: RK29023-023
Lab File ID: 81202C12
Date Received: 12/01/2016
Date Extracted:
Date Analyzed: 12/02/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
01	~~----------~~	~~Unknown-01~~	1.56	3.3	J	AIR
02		Unknown-02	1.62	6.3	J	
03		Unknown-03	3.88	0.59	J	
04	~~----------~~	~~Unknown-04~~	10.64	0.75	~~J~~	column bld
05		Unknown-05	12.13	1.0	J	
06		Unknown-06	12.26	2.3	J	
07						
08		Unknown-07	12.62	2.4	J	
09	~~----------~~	~~Unknown-08~~	13.86	1.3	J	column bleed
10	~~----------~~	~~Unknown-09~~	14.50	55	~~J~~	
11						
12						2/14/17
13						LB
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
	E966796[2]	Total Alkanes	N/A	1.6	J	

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P8RE

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N3
Level: TRACE
Lab Sample ID: RK29023-024
Lab File ID: 81202C13
Date Received: 12/01/2016
Date Extracted:
Date Analyzed: 12/02/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.62	4.9	J
02					
03		Unknown-02	2.68	0.60	J
04					
05		Unknown-03	12.26	0.52	J
06		~~Unknown-04~~	~~12.58~~	~~1.5~~	~~J~~
07		Unknown-05	13.86	0.85	J
08		~~Unknown-06~~	~~14.50~~	~~46~~	~~J~~
09		Unknown-07	15.91	1.1	J
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2.5	J

column bleed

2/14/17 LB

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q0

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
Lab Code: EQI Case No.: 46660 MA No.: 2446.2 SDG No.: YA8N3
Analytical Method: Trace VOA Level: TRACE
Matrix: Water Lab Sample ID: RK29023-005
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81130B18
% Solids: Date Received: 11/29/2016
GC Column: DB-624 ID: 0.25 (mm) Date Extracted:
Extract Concentrated: (Y/N) Date Analyzed: 12/01/2016
Soil Aliquot (VOA): (uL) Extract Volume: (uL)
Heated Purge: (Y/N) N Extraction Type: PT
Purge Volume: 25.0 (mL) Injection Volume:
Cleanup Types: pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.62	2.4	J
02		Unknown-02	1.79	0.66	J
03		~~Unknown-03~~	~~2.15~~	~~0.68~~	~~J~~
04	534-22-5	Furan, 2-methyl-	5.02	0.54	NJ
05	~~541-05-9~~	~~Cyclotrisiloxane, hexamethyl-~~	~~9.72~~	~~1.2~~	~~NJ~~
06		Unknown-04	10.64	1.7	J
07	~~17928-28-8~~	~~Methyltris(trimethylsiloxy)silane~~	~~12.50~~	~~3.8~~	~~NJ~~
08		~~Unknown-05~~	~~13.86~~	~~2.7~~	~~J~~
09		Unknown-06	15.91	0.68	J
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

2/14/17 LB

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q1

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N3
Level: TRACE
Lab Sample ID: RK29023-006
Lab File ID: 81130B20
Date Received: 11/29/2016
Date Extracted:
Date Analyzed: 12/01/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.62	1.8	J
02		Unknown-02	2.42	5.2	J
03		Unknown-03	3.77	1.3	J
04		Unknown-04	3.88	4.1	J
05		Unknown-05	13.29	1.2	J
06		Unknown-06	14.50	3.3	J
07		Unknown-07	15.91	0.99	J
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

2/14/17
LB

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q2

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N3
Level: TRACE
Lab Sample ID: RK29023-007
Lab File ID: 81130B21
Date Received: 11/29/2016
Date Extracted:
Date Analyzed: 12/01/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.62	0.96	J
02		Unknown-02	13.29	0.51	J
03		Unknown-03	14.50	0.92	J
04		Unknown-04	15.91	0.95	J
05					
06					
07					
08					
09					
10					
11					
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13					
14					
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16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

2/14/17
LB

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q4

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 46660
MA No.: 2446.2 SDG No.: YA8N3
Analytical Method: Trace VOA
Level: TRACE
Matrix: Water
Lab Sample ID: RK29023-014
Sample wt/vol: 25.0 (g/mL) mL
Lab File ID: 81201A05
% Solids:
Date Received: 11/30/2016
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/01/2016
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 25.0 (mL)
Injection Volume:
Cleanup Types:
pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.77	1.1	J
02		Unknown-02	2.42	1.4	J
03		Unknown-03	3.88	1.3	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q7

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 46660
MA No.: 2446.2 SDG No.: YA8N3
Analytical Method: Trace VOA
Level: TRACE
Matrix: Water
Lab Sample ID: RK29023-017
Sample wt/vol: 25.0 (g/mL) mL
Lab File ID: 81201A07
% Solids:
Date Received: 11/30/2016
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/01/2016
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 25.0 (mL)
Injection Volume:
Cleanup Types:
pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.61	2.3	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q8

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 46660
MA No.: 2446.2 SDG No.: YA8N3
Analytical Method: Trace VOA
Level: TRACE
Matrix: Water
Lab Sample ID: RK29023-018
Sample wt/vol: 25.0 (g/mL) mL
Lab File ID: 81201A19
% Solids:
Date Received: 11/30/2016
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/01/2016
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 25.0 (mL)
Injection Volume:
Cleanup Types:
pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.77	0.86	J
02		Unknown-02	2.17	0.57	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 2, SFD-7-2 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106150
Date:	March 9, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B Webb Company
Site Account No.:	09 WR QB 00
Case No.:	46660
SDG No.:	YA8N3
Laboratory:	Shealy Environmental Services, Inc. (EQI)
Analysis:	CLP 1,4-Dioxane by Semivolatile Selective Ion Monitoring (SIM)
Samples:	16 Groundwater Samples
Collection Date:	November 28, 29, and 30, 2016
Reviewer:	Lisa Brooker, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Cynthia Gurley, CLP PO USEPA Region 4

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [X] Yes [] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46660
SDG No.: YA8N3
Site: Jervis B Webb Company
Laboratory: Shealy Environmental Services, Inc. (EQI)
Analysis: CLP 1,4-Dioxane by Semivolatile Selective Ion Monitoring (SIM)
Reviewer: Lisa Brooker, ESAT
Date: March 9, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	YA8N4.
Background Samples (BG):	None.
Field Duplicates (D1):	YA8Q5 and YA8Q6.
Field Duplicates (D2):	YA8N0 and YA8P7.

CLP PO Action

None.

Sampling Issues

1. Coolers received by the laboratory on November 30 and December 1, 2016 had temperatures of 6.9 and 7.3°C, which are above the ≤ 6°C sample preservation criterion (see Additional Comments).
2. Contamination above the contract required quantitation limit (CRQL) was found for 1,4-dioxane in the equipment blank YA8N4 (see Comment B).
3. For sample YA8N6, one broken bottle was received by the laboratory. However, there was enough sample volume remaining for analysis.

Additional Comments

As noted in Sampling Issues above, samples YA8Q4, YA8Q7, YA8N0, and YA8P7 were received at temperatures slightly above the criterion. Since this exceedance is minor and of short duration (samples were received one to two days after collection), qualification is not required.

Matrix spike/matrix spike duplicate (MS/MSD) analysis was not required.

All standards and spiking solutions were analyzed before the expiration date.

The laboratory performed manual peak integration for some sample chromatograms. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:
- *Modified Analysis, 1,4-Dioxane Analysis with Lower CRQL,* MA 2445.2, November 4, 2016;

- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3, September 2015, and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, September 2016.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	GC/MS Instrument Performance Check	N/A	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	Yes	
6	Laboratory Blank	Yes	
7	Field/Equipment Blanks	No	B
8	Deuterated Monitoring Compound (DMC)	No	C
9	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	N/A	
10	Laboratory Control Sample (LCS)	Yes	
11	GPC Performance Check	N/A	
12	Internal Standard	Yes	
13	Compound Identification	Yes	
14	Compound Quantitation and Reported CRQL	Yes	A, D
15	System Performance	Yes	
16	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable.

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The following results are qualified as nondetected due to equipment blank contamination and are flagged "U."

- 1,4-Dioxane in samples YA8Q0, YA8Q1, and YA8Q2.

1,4-Dioxane is present in the equipment blank YA8N4 at 0.53 µg/L. Results that are less than or equal to the CRQL are qualified as non-detected at the CRQL. 1,4-Dioxane results above the CRQL and less than two times the blank concentration are reported as nondetected at the reported concentration. Equipment blanks were not collected on November 29 and 30, 2016.

C. Results for the following analyte are qualified as estimated due to high DMC recoveries and are flagged "J+."

{1,4 Dioxane- d8}
- 1,4 Dioxane in samples YA8N5 and YA8N6.

DMC recoveries for the qualifications listed above are shown below.

Sample	DMC	% Recovery	QC Limit
YA8N5	1,4-Dioxane-d8	289	40-110
YA8N6	1,4-Dioxane-d8	1200	40-110

Since DMC recoveries exceed QC limits, detected results are qualified; qualified results may be biased high. The samples listed above were not reanalyzed.

D. Samples YA8N5, YA8N6, YA8P9, YA8Q5, and YA8Q6 were re-analyzed at 10-, 10-, 10-, 20-, and 10-fold dilutions, respectively, to obtain results within the calibration range. The results for 1,4-dioxane in these samples is reported from the diluted analysis.

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," August 2014 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation Limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 2, SFD-7-2 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106150
Date:	March 09, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B Webb Company
Site Account No.:	09 WR QB 00
Case No.:	46660
SDG No.:	YA8N3
Laboratory:	Shealy Environmental Services, Inc. (EQI)
Analysis:	CLP Aroclors
Samples:	Seven Groundwater Samples
Collection Date:	November 28 and 30, 2016
Reviewer:	Lisa Brooker, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP PO USEPA Region 9
Cynthia Gurley, CLP PO USEPA Region 4

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [X] Yes [] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46660
SDG No.: YA8N3
Site: Jervis B Webb Company
Laboratory: Shealy Environmental Services, Inc. (EQI)
Analysis: CLP Aroclors
Reviewer: Lisa Brooker, ESAT
Date: March 09, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	YA8N4.
Background Samples (BG):	None.
Field Duplicates (D1):	None.

CLP PO Action

None.

Sampling Issues

For sample YA8N6, one broken bottle was received by the laboratory. However, there was enough sample volume remaining for analysis.

Additional Comments

The laboratory performed manual peak integration for some sample chromatograms. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

All standards and spiking solutions were analyzed before the expiration date.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3, September 2015, and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, September 2016.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration,* SOM02.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	Initial Calibration	Yes	
4	Continuing Calibration Verification (CCV)	Yes	
5	Laboratory Blank	Yes	
6	Field/Equipment Blanks	Yes	
7	Surrogate	Yes	
8	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Yes	
9	Laboratory Control Sample (LCS)	Yes	
10	GPC Performance Check	N/A	
11	Compound Identification	Yes	
12	GC/MS Confirmation	N/A	
13	Compound Quantitation and Reported CRQL	Yes	
14	System Performance	Yes	
15	Field Duplicate Sample Analysis	N/A	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

The data reviewed were found to be in compliance with the National Functional Guidelines criteria; no issues requiring qualification of data were observed.

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," August 2014 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation Limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 2, SFD-7-2 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106150
Date:	March 09, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B Webb Company
Site Account No.:	09 WR QB 00
Case No.:	46660
SDG No.:	YA8N3
Laboratory:	Shealy Environmental Services, Inc. (EQI)
Analysis:	CLP Semivolatiles
Samples:	16 Groundwater Samples
Collection Date:	November 28, 29, and 30, 2016
Reviewer:	Lisa Brooker, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP PO USEPA Region 9
Cynthia Gurley, CLP PO USEPA Region 4

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [X] Yes [] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46660
SDG No.: YA8N3
Site: Jervis B Webb Company
Laboratory: Shealy Environmental Services, Inc. (EQI)
Analysis: CLP Semivolatiles
Reviewer: Lisa Brooker, ESAT
Date: March 09, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	YA8N4.
Background Samples (BG):	None.
Field Duplicates (D1):	YA8Q5 and YA8Q6.
Field Duplicates (D2):	YA8N0 and YA8P7.

CLP PO Action

None.

Sampling Issues

1. Coolers received by the laboratory on November 30 and December 1, 2016 had temperatures of 6.9 and 7.3°C, which are above the ≤ 6°C sample preservation criterion (see Additional Comments).
2. For sample YA8N6, one broken bottle was received by the laboratory. However, there was enough sample volume remaining for analysis.

Additional Comments

The closing continuing calibration verification (CCV) SSTD020HU analyzed on December 2, 2016 failed acceptance criteria. The laboratory re-analyzed all samples undiluted except YA8Q5 which required a 2-fold dilution; repeated CCV failure was observed. Results from the original analyses were reported in the EXES Data Manager except for the analyte that required dilution which was reported from the 2-fold dilution.

As noted in Sampling Issues above, samples YA8Q4, YA8Q7, YA8N0, and YA8P7 were received at temperatures slightly above the criterion. Since this exceedance is minor and of short duration (samples were received on the day after collection), qualification is not required.

No sample was designated for "Lab QC" on COCs and extra sample volume for matrix spike/matrix spike duplicate (MS/MSD) analysis was not provided (only two bottles were collected for each sample).

The laboratory performed manual peak integration for some sample chromatograms. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

In addition to laboratory and field artifacts (retention times of 10.1, 10.3, and 12.0 minutes), tentatively identified compounds (TICs) were found in all field samples except samples YA8Q2 and YA8Q8 (see attached Form 1Bs).

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3, September 2015, and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, September 2016.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	GC/MS Instrument Performance Check	Yes	
4	Initial Calibration	No	B
5	Continuing Calibration Verification (CCV)	No	C
6	Laboratory Blank	Yes	
7	Field/Equipment Blanks	Yes	
8	Deuterated Monitoring Compound (DMC)	No	D
9	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	N/A	
10	Laboratory Control Sample (LCS)	N/A	
11	GPC Performance Check	N/A	
12	Internal Standard	Yes	
13	Compound Identification	Yes	
14	Compound Quantitation and Reported CRQL	Yes	A, F
15	System Performance	Yes	
16	Field Duplicate Sample Analysis	No	E

N/A = Not Applicable.

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. Results for the following analytes are qualified as estimated due to large percent relative standard deviations (%RSDs) in the initial calibration and are flagged "UJ."

- 4-Bromophenyl-phenylether, benzo(a)pyrene, and 2,3,4,6-tetrachlorophenol in sample YA8Q6.

The following values exceed validation criteria.

Analyte	Calibration Date	%RSD	QC Limits
4-Bromophenyl-phenylether	12/7/16	21.9	20.0%
Benzo(a)pyrene	12/7/16	21.9	20.0%
2,3,4,6-Tetrachlorophenol	12/7/16	26.8	20.0%

In addition, as shown below, the relative response factors (RRFs) for the 5.0 µg/L CRQL standard are below the average RRFs, indicating low sensitivity at the CRQLs.

Analyte	Calibration Date	RRF at CRQL	Average RRF
4-Bromophenyl-phenylether	12/7/16	0.129	0.178
Benzo(a)pyrene	12/7/16	0.895	1.225
2,3,4,6-Tetrachlorophenol	12/7/16	0.163	0.250

The %RSD of 33.9% reported for carbazole in the 11/30/16 initial calibration exceeds the 20.0% validation criterion. Examination of the RRFs indicates that the sensitivity at the CRQL is good; CRQL standard RRF of 1.188 is above the average RRF of 0.834. Therefore, in the reviewer's technical judgment, qualification of nondetected results is not necessary. Associated sample results for carbozole are not qualified because they are nondetects.

C. Results for the following analytes are qualified as estimated due to percent differences (%Ds) outside QC limits in associated CCV and are flagged "UJ."

- Carbozole and 3,3'-dichlorobenzidine in all field samples except YA8Q6, equipment blank YA8N4, and method blank SBLK24.

The following values exceed the validation criterion.

Analyte	Calibration Date and Time	%D	Critera
Carbozole	12/2/16 23:40	+35.4	±25.0%
3,3'-Dichlorobenzidine	12/2/16 23:40	-58.9	±50.0%

D. Results for the following analytes are qualified as estimated due to DMC recoveries outside QC limits and are flagged "J-", "J+", or "UJ."

{1,4 Dioxane-d8}
- 1,4-Dioxane in samples YA8N6, YA8Q1, and YA8Q2.

{Benzo(a)pyrene-d12}
- Benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene in sampleYA8N0.

DMC recoveries for the qualifications listed above are shown below.

Sample	DMC	% Recovery	QC Limit
YA8N0	Benzo(a)pyrene-d12	13	20-130
YA8N6	1,4-Dioxane-d8	126	40-110
YA8Q1	1,4-Dioxane-d8	39	40-110
YA8Q2	1,4-Dioxane-d8	36	40-110

Detected results for affected analytes where DMC recoveries are below QC limits may be biased low; where qualified results are nondetected, false negatives may exist. For DMC recoveries that exceed QC limits, only detected results for associated analytes are qualified; qualified results may be biased high. The samples listed above were not re-extracted.

E. In the analysis of field duplicate pairs, the following outlier (relative percent difference greater than 25%) was reported.

Analyte	YA8Q5 (D1) Concentration, µg/L	YA8Q6 (D1) Concentration, µg/L	RPD
1,4-Dioxane	41	30	31

These results may indicate poor laboratory technique or matrix effects which may interfere with analysis. This uncertainty should be evaluated in the context of project data quality objectives to determine data usability.

F. Samples YA8Q5 and YA8Q6 were re-analyzed at 2-fold dilutions, to obtain results within the calibration range for 1,4-dioxane. Results for 1,4-dioxane in these samples are reported from the diluted analyses.

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," August 2014 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation Limit.

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J+ The result is an estimated quantity, but the result may be biased high.

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R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8N0

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
Lab Code: EQI Case No.: 46660 MA No.: SDG No.: YA8N3
Analytical Method: SVOA Level: LOW
Matrix: Water Lab Sample ID: RK29023-019
Sample wt/vol: 1050 (g/mL) mL Lab File ID: 121202B15
% Solids: Date Received: 12/01/2016
GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/01/2016
Extract Concentrated: (Y/N) Date Analyzed: 12/02/2016
Soil Aliquot (VOA): (uL) Extract Volume: 1000 (uL)
Heated Purge: (Y/N) Extraction Type: CLLE
Purge Volume: (mL) Injection Volume: 1.0
Cleanup Types: pH: 8 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	7.47	40	J
02		Unknown-02	7.95	30	J
03		Unknown-03	8.41	48	J
04		Unknown-04	8.80	11	J
05		Unknown-05	8.95	16	J
06		Unknown-06	9.14	16	J
07		Unknown-07	9.17	8.8	J
08		Unknown-08	9.20	13	J
09		Unknown-09	9.36	20	J
10		Unknown-10	9.67	33	J
11		Unknown-11	9.73	14	J
12		Unknown-12	9.84	10	J
13		Unknown-13	9.93	26	J
14		Unknown-14	9.96	22	J
15		Unknown-15	9.99	14	J
16		Unknown-16	10.06	21	J
17		Unknown-17	10.13	13	J
18		Unknown-18	10.19	22	J
19		Unknown-19	10.23	9.0	J
20		Unknown-20	10.27	26	J
21	~~1000336-66-8~~	~~6-Octadecenoic acid~~	~~10.33~~	~~17~~	~~NJ~~
22		Unknown-21	10.42	9.6	J
23		Unknown-22	10.47	9.5	J
24		Unknown-23	10.57	44	J
25		Unknown-24	10.60	16	J
26		Unknown-25	10.75	82	J
27		Unknown-26	10.79	32	J
28		Unknown-27	10.87	160	J
29		Unknown-28	11.14	38	J
30		Unknown-29	11.32	37	J
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

3/6/17 LB

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8N5

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 46660
MA No.: SDG No.: YA8N3
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: RK29023-003
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 121202B04
% Solids:
Date Received: 11/29/2016
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/01/2016
Extract Concentrated: (Y/N)
Date Analyzed: 12/02/2016
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 8 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	1077-56-1	Benzenesulfonamide, N-ethyl-2-methyl-	8.65	3.4	NJ
02	20170-32-5	3,5-di-tert-Butyl-4-hydroxyphenylpropion	9.76	11	NJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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25					
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27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8N6

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N3
Level: LOW
Lab Sample ID: RK29023-020
Lab File ID: 121202B16
Date Received: 12/01/2016
Date Extracted: 12/01/2016
Date Analyzed: 12/02/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 8 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	1077-56-1	Benzenesulfonamide, N-ethyl-2-methyl-	8.66	6.2	NJ
02	80-39-7	Benzenesulfonamide, N-ethyl-4-methyl-	8.89	3.5	NJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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19					
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26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P6

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N3
Level: LOW
Lab Sample ID: RK29023-022
Lab File ID: 121202B17
Date Received: 12/01/2016
Date Extracted: 12/01/2016
Date Analyzed: 12/02/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 8 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.57	5.7	J
02	2516-93-0	Butoxyacetic acid	5.80	2.3	NJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P7

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N3
Level: LOW
Lab Sample ID: RK29023-023
Lab File ID: 121202B18
Date Received: 12/01/2016
Date Extracted: 12/01/2016
Date Analyzed: 12/02/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 8 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	6.28	23	J
02		Unknown-02	7.02	16	J
03		Unknown-03	7.48	50	J
04		Unknown-04	7.96	34	J
05		Unknown-05	8.42	49	J
06		Unknown-06	8.81	13	J
07		Unknown-07	8.90	7.2	J
08		Unknown-08	8.95	8.9	J
09		Unknown-09	9.04	6.3	J
10		Unknown-10	9.07	6.5	J
11		Unknown-11	9.15	14	J
12		Unknown-12	9.18	7.4	J
13		Unknown-13	9.21	12	J
14		Unknown-14	9.38	25	J
15		Unknown-15	9.67	21	J
16		Unknown-16	9.73	8.5	J
17		Unknown-17	9.85	6.3	J
18		Unknown-18	9.87	5.7	J
19		Unknown-19	9.94	20	J
20		Unknown-20	9.97	24	J
21		Unknown-21	10.01	14	J
22		Unknown-22	10.07	14	J
23		Unknown-23	10.14	8.3	J
24		Unknown-24	10.19	18	J
25		Unknown-25	10.24	7.4	J
26		Unknown-26	10.27	18	J
27		Unknown-27	10.58	41	J
28		Unknown-28	10.76	29	J
29		Unknown-29	10.80	9.5	J
30		Unknown-30	10.88	39	J
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P8

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 46660
MA No.: SDG No.: YA8N3
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: RK29023-024
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 121202B19
% Solids:
Date Received: 12/01/2016
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/01/2016
Extract Concentrated: (Y/N)
Date Analyzed: 12/02/2016
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 8 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.57	7.1	J
02		Unknown-02	6.26	3.6	J
03		Unknown-03	7.43	6.5	J
04		Unknown-04	7.85	4.0	J
05		Unknown-05	7.92	4.8	J
06		Unknown-06	8.36	9.5	J
07		Unknown-07	8.77	4.4	J
08		Unknown-08	8.91	2.5	J
09		Unknown-09	8.95	4.6	J
10		Unknown-10	8.98	2.8	J
11		Unknown-11	9.06	2.3	J
12		Unknown-12	9.10	2.8	J
13		Unknown-13	9.12	2.4	J
14		Unknown-14	9.17	2.8	J
15		Unknown-15	9.71	2.3	J
16		Unknown-16	9.85	2.3	J
17		Unknown-17	9.88	3.6	J
18		Unknown-18	9.96	2.3	J
19		Unknown-19	10.14	1.9	J
20		Unknown-20	10.17	2.1	J
21		Unknown-21	10.21	2.2	J
22	~~1000336-66-8~~	~~6 Octadecenoic acid~~	~~10.30~~	~~3.0~~	~~NJ~~
23		Unknown-22	10.47	4.3	J
24		Unknown-23	10.55	2.7	J
25		Unknown-24	10.58	4.2	J
26		Unknown-25	10.70	2.9	J
27		Unknown-26	10.75	5.3	J
28		Unknown-27	10.80	2.1	J
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

3/6/17
US

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P9

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N3
Level: LOW
Lab Sample ID: RK29023-010
Lab File ID: 121202B07
Date Received: 11/30/2016
Date Extracted: 12/01/2016
Date Analyzed: 12/02/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 8 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.01	2.8	J
02	1077-56-1	Benzenesulfonamide, N-ethyl-2-methyl-	8.65	2.5	NJ
03	1000336-66-8	6-Octadecenoic acid	10.29	2.6	NJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

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FORM 1B-OR
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TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q0

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N3
Level: LOW
Lab Sample ID: RK29023-011
Lab File ID: 121202B08
Date Received: 11/30/2016
Date Extracted: 12/01/2016
Date Analyzed: 12/02/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 8 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	79-31-2	Propanoic acid, 2-methyl-	3.77	17	NJ
02		Unknown-01	3.81	9.2	J
03	107-92-6	Butanoic acid	4.02	37	NJ
04		Unknown-02	4.50	160	J
05		Unknown-03	4.57	59	J
06		Unknown-04	4.82	2.9	J
07		Unknown-05	5.01	2.1	J
08		Unknown-06	5.39	2.6	J
09		Unknown-07	5.61	3.6	J
10	646-01-5	Propanoic acid, 3-(methylthio)-	5.87	33	NJ
11	65-85-0	Benzoic acid	6.26	4.0	NJ
12	103-82-2	Benzeneacetic acid	6.77	110	NJ
13		Unknown-08	6.87	2.2	J
14	120-72-9	Indole	7.05	14	NJ
15	103-70-8	Formamide, N-phenyl-	7.15	2.1	NJ
16	143-22-6	Ethanol, 2-[2-(2-butoxyethoxy)ethoxy]-	7.74	4.0	NJ
17		Unknown-09	8.13	6.6	J
18		Unknown-10	8.18	7.6	J
19		Unknown-11	8.87	2.2	J
20		Unknown-12	9.55	2.1	J
21		Unknown-13	9.73	6.2	J
22		Unknown-14	9.86	7.4	J
23	~~1000336-66-8~~	~~6-Octadecenoic acid~~	~~10.30~~	~~7.8~~	~~NJ~~
24		Unknown-15	10.47	1.9	J
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

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[2]EPA-designated Registry Number.

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TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q1

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 46660
MA No.: SDG No.: YA8N3
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: RK29023-006
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 121202B05
% Solids:
Date Received: 11/29/2016
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/01/2016
Extract Concentrated: (Y/N)
Date Analyzed: 12/02/2016
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 8 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.57	15	J
02	~~1000336-66-8~~	~~6-Octadecenoic acid~~	10.30	4.8	NJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

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[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q4

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N3
Level: LOW
Lab Sample ID: RK29023-014
Lab File ID: 121202B10
Date Received: 11/30/2016
Date Extracted: 12/01/2016
Date Analyzed: 12/02/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 8 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.82	2.1	J
02	1077-56-1	Benzenesulfonamide, N-ethyl-2-methyl-	8.65	3.7	NJ
03	~~1000190-13-7~~	~~Octadec-9-enoic acid~~	~~10.29~~	~~3.3~~	~~NJ~~
04		Unknown-02	11.81	3.1	J
05		Unknown-03	12.78	3.3	J
06					
07					
08					
09					
10					
11					
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30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

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ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q5

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 46660
MA No.: SDG No.: YA8N3
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: RK29023-015
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 121202B11
% Solids:
Date Received: 11/30/2016
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/01/2016
Extract Concentrated: (Y/N)
Date Analyzed: 12/02/2016
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 8 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.82	2.0	J
02	~~1000190-13-7~~	~~Octadec-9-enoic acid~~	~~10.29~~	~~2.1~~	~~NJ~~
03					
04					
05					
06					
07					
08					
09					
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28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

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[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q6

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N3
Level: LOW
Lab Sample ID: RK29023-016
Lab File ID: 121207C07
Date Received: 11/30/2016
Date Extracted: 12/01/2016
Date Analyzed: 12/07/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 8 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.99	2.7	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

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ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8Q7

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 46660
MA No.: SDG No.: YA8N3
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: RK29023-017
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 121202B13
% Solids:
Date Received: 11/30/2016
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/01/2016
Extract Concentrated: (Y/N)
Date Analyzed: 12/02/2016
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 8 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.01	2.6	J
02		Unknown-02	9.86	2.8	J
03		Unknown-03	9.94	3.4	J
04	~~112-80-1~~	~~Oleic Acid~~	~~10.30~~	~~2.7~~	~~NJ~~
05		Unknown-04	10.44	4.6	J
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
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28					
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30					
	E966796[2]	Total Alkanes	N/A		

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[2]EPA-designated Registry Number.

Sample Summary Report

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	ABLK96	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1260	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: ALCS96	Method: Aroclors	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	0.88	J	ug/L	0.88	J	1.0	Yes	S3VE
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1260	Spike	0.95	J	ug/L	0.95	J	1.0	Yes	S3VE
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: SBLK24	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0	U	ug/L	2.0	U	1.0	Yes	S3VE
Benzaldehyde	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Phenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
2-Chlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Acetophenone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Hexachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Nitrobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isophorone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Nitrophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Naphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Chloroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Caprolactam	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Nitroaniline	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dimethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
3-Nitroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Acenaphthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
4-Nitrophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibenzofuran	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Diethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Fluorene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Nitroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Atrazine	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Pentachlorophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Phenanthrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbazole	Target	10	UJ	ug/L	10	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Fluoranthene	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	10	UJ	ug/L	10	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chrysene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	3.3	J	ug/L	3.3	J	1.0	Yes	S3VE
Di-n-octylphthalate	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: SBLK28	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2445.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.12	J	ug/L	0.12	J	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: SBLK60	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2445.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: SLCS28	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2445.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	0.29	JB	ug/L	0.29	JB	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: SLCS60	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2445.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	0.55	B	ug/L	0.55	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VBLKNV	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VBLKOF	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-01	TIC	0.54	J	ug/L	0.54	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VBLKOR	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	UJ	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclotetrasiloxane, octamethyl-	TIC	0.76	NJ	ug/L	0.76	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VBLKPC	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VBLKQG	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8N0	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-98B-1116	pH:	7	Sample Date:	11/30/2016	Sample Time:	11:10:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.51		ug/L	0.51	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N0	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-98B-1116	pH: 8	Sample Date: 11/30/2016	Sample Time: 11:10:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.60	J	ug/L	0.60	J	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-23	TIC	44	J	ug/L	44	J	1.0	Yes	NV
Unknown-16	TIC	21	J	ug/L	21	J	1.0	Yes	NV
Unknown-17	TIC	13	J	ug/L	13	J	1.0	Yes	NV
Unknown-21	TIC	9.6	J	ug/L	9.6	J	1.0	Yes	NV
Unknown-14	TIC	22	J	ug/L	22	J	1.0	Yes	NV
Unknown-27	TIC	160	J	ug/L	160	J	1.0	Yes	NV
Unknown-24	TIC	16	J	ug/L	16	J	1.0	Yes	NV
Unknown-07	TIC	8.8	J	ug/L	8.8	J	1.0	Yes	NV
Unknown-13	TIC	26	J	ug/L	26	J	1.0	Yes	NV
Unknown-29	TIC	37	J	ug/L	37	J	1.0	Yes	NV
Unknown-11	TIC	14	J	ug/L	14	J	1.0	Yes	NV
Unknown-10	TIC	33	J	ug/L	33	J	1.0	Yes	NV
Unknown-28	TIC	38	J	ug/L	38	J	1.0	Yes	NV
Unknown-25	TIC	82	J	ug/L	82	J	1.0	Yes	NV
Unknown-03	TIC	48	J	ug/L	48	J	1.0	Yes	NV
Unknown-12	TIC	10	J	ug/L	10	J	1.0	Yes	NV
Unknown-15	TIC	14	J	ug/L	14	J	1.0	Yes	NV
Unknown-09	TIC	20	J	ug/L	20	J	1.0	Yes	NV
Unknown-06	TIC	16	J	ug/L	16	J	1.0	Yes	NV
Unknown-05	TIC	16	J	ug/L	16	J	1.0	Yes	NV
Unknown-08	TIC	13	J	ug/L	13	J	1.0	Yes	NV
6-Octadecenoic acid	TIC	17	NJ	ug/L	17	NJ	1.0	Yes	NV
Unknown-02	TIC	30	J	ug/L	30	J	1.0	Yes	NV
Unknown-26	TIC	32	J	ug/L	32	J	1.0	Yes	NV
Unknown-18	TIC	22	J	ug/L	22	J	1.0	Yes	NV
Unknown-20	TIC	26	J	ug/L	26	J	1.0	Yes	NV
Unknown-04	TIC	11	J	ug/L	11	J	1.0	Yes	NV
Unknown-01	TIC	40	J	ug/L	40	J	1.0	Yes	NV
Unknown-19	TIC	9.0	J	ug/L	9.0	J	1.0	Yes	NV
Unknown-22	TIC	9.5	J	ug/L	9.5	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N0	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-98B-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 11:10:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	6.3		ug/L	6.3		1.0	Yes	S3VE
Carbon disulfide	Target	0.42	J	ug/L	0.42	J	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.37	J	ug/L	0.37	J	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	2.1		ug/L	2.1		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	4.2		ug/L	4.2		1.0	Yes	S3VE
Trichloroethene	Target	2.9		ug/L	2.9		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.22	J	ug/L	0.22	J	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-07	TIC	0.60	J	ug/L	0.60	J	1.0	Yes	NV
Unknown-09	TIC	0.65	J	ug/L	0.65	J	1.0	Yes	NV
2-Methyl-2-bornene	TIC	2.1	NJ	ug/L	2.1	NJ	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-03	TIC	1.5	J	ug/L	1.5	J	1.0	Yes	NV
Unknown-01	TIC	3.9	J	ug/L	3.9	J	1.0	Yes	NV
Unknown-02	TIC	7.0	J	ug/L	7.0	J	1.0	Yes	NV
Unknown-05	TIC	0.53	J	ug/L	0.53	J	1.0	Yes	NV
Unknown-06	TIC	0.64	J	ug/L	0.64	J	1.0	Yes	NV
Unknown-04	TIC	0.95	J	ug/L	0.95	J	1.0	Yes	NV
Unknown-08	TIC	0.53	J	ug/L	0.53	J	1.0	Yes	NV
Unknown-10	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N3	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JW-RL01-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 07:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number:	YA8N4	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JW-EL01-1116	pH:	7	Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N4	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JW-EL01-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 13:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.18	J	ug/L	0.18	J	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-01	TIC	0.50	J	ug/L	0.50	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N4	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JW-EL01-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 13:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.9	U	ug/L	1.9	U	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	1.4	J	ug/L	1.4	J	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	0.40	J	ug/L	0.40	J	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Oxybenzone	TIC	2.6	NJ	ug/L	2.6	NJ	1.0	Yes	NV
Unknown-08	TIC	2.6	J	ug/L	2.6	J	1.0	Yes	NV
Unknown-03	TIC	13	J	ug/L	13	J	1.0	Yes	NV
3-Heptanone	TIC	5.0	NJ	ug/L	5.0	NJ	1.0	Yes	NV
2-Hexanone	TIC	5.4	NJ	ug/L	5.4	NJ	1.0	Yes	NV
Unknown-05	TIC	4.5	J	ug/L	4.5	J	1.0	Yes	NV
Unknown-07	TIC	6.4	J	ug/L	6.4	J	1.0	Yes	NV
Unknown-01	TIC	4.1	J	ug/L	4.1	J	1.0	Yes	NV
Nonanoic acid	TIC	2.6	NJ	ug/L	2.6	NJ	1.0	Yes	NV
Unknown-09	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV
Unknown-06	TIC	1.9	J	ug/L	1.9	J	1.0	Yes	NV
Unknown-04	TIC	4.5	J	ug/L	4.5	J	1.0	Yes	NV
Unknown-10	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV
Pentanoic acid, 3-methyl-	TIC	2.2	NJ	ug/L	2.2	NJ	1.0	Yes	NV
Butanoic acid	TIC	11	NJ	ug/L	11	NJ	1.0	Yes	NV
Heptanoic acid	TIC	3.1	NJ	ug/L	3.1	NJ	1.0	Yes	NV
Octadec-9-enoic acid	TIC	4.0	NJ	ug/L	4.0	NJ	1.0	Yes	NV
Unknown-02	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8N4	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JW-EL01-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.53		ug/L	0.53	B	1.0	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8N5	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-04-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	26	J+	ug/L	26	DB	10.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number:	YA8N5	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JWMW-04-1116	pH:	7	Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N5	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-04-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 08:04:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	19		ug/L	19		1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzenesulfonamide, N-ethyl-2-methyl-	TIC	3.4	NJ	ug/L	3.4	NJ	1.0	Yes	NV
3,5-di-tert-Butyl-4-hydroxyphenylpropion	TIC	11	NJ	ug/L	11	NJ	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-4-methyl-	TIC	2.1	NJ	ug/L	2.1	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI	
Sample Number: YA8N5	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2	
Sample Location: JWMW-04-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 08:04:00	
% Moisture :		% Solids :		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethene	Target	26		ug/L	26	D	20.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	38		ug/L	38	D	20.0	Yes	S3VE
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethane	Target	12		ug/L	12	D	20.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	2400		ug/L	2400	D	200.0	Yes	S3VE
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Benzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichloroethene	Target	490		ug/L	490	D	200.0	Yes	S3VE
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Toluene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Cyclotetrasiloxane, octamethyl-	TIC	10	NJ D	ug/L	10	NJ D	20.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8N6	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-05-1116	pH:	8	Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	19	J+	ug/L	19	DB	10.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N6	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-05-1116	pH: 8	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	16	J+	ug/L	16		1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzenesulfonamide, N-ethyl-4-methyl-	TIC	3.5	NJ	ug/L	3.5	NJ	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-2-methyl-	TIC	6.2	NJ	ug/L	6.2	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number:	YA8N6	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JWMW-05-1116	pH:	7	Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1260	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N6	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-05-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethene	Target	21		ug/L	21	D	20.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	21		ug/L	21	D	20.0	Yes	S3VE
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethane	Target	10		ug/L	10	D	20.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	260		ug/L	260	D	20.0	Yes	S3VE
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Benzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichloroethene	Target	2400	J	ug/L	2400	D	200.0	Yes	S3VE
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Toluene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Unknown-01	TIC	120	J D	ug/L	120	J D	20.0	Yes	NV
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Unknown-03	TIC	23	J D	ug/L	23	J D	20.0	Yes	NV
Unknown-02	TIC	78	J D	ug/L	78	J D	20.0	Yes	NV
Unknown Alkane-01	TIC	77	J D	ug/L	77	J D	20.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N6MS	Method: Aroclors	Matrix: Water	MA Number:
Sample Location:	pH: 7	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	3.2		ug/L	3.2		1.0	Yes	S3VE
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1260	Spike	3.6		ug/L	3.6		1.0	Yes	S3VE
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: YA8N6MS	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH: 2	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethene	Spike	110		ug/L	110	D	20.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	20		ug/L	20	D	20.0	Yes	S3VE
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethane	Target	9.8	J	ug/L	9.8	J D	20.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	260		ug/L	260	D	20.0	Yes	S3VE
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Benzene	Spike	98		ug/L	98	D	20.0	Yes	S3VE
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichloroethene	Spike	2300		ug/L	2300	E D	20.0	Yes	S3VE
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Toluene	Spike	100		ug/L	100	D	20.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chlorobenzene	Spike	100		ug/L	100	D	20.0	Yes	S3VE
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Unknown Alkane-01	TIC	21	J D	ug/L	21	J D	20.0	Yes	NV
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Unknown-03	TIC	11	J D	ug/L	11	J D	20.0	Yes	NV
Unknown-02	TIC	13	J D	ug/L	13	J D	20.0	Yes	NV
Unknown-01	TIC	22	J D	ug/L	22	J D	20.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: YA8N6MSD	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH: 2	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethene	Spike	110		ug/L	110	D	20.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	21		ug/L	21	D	20.0	Yes	S3VE
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethane	Target	10		ug/L	10	D	20.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	260		ug/L	260	D	20.0	Yes	S3VE
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Benzene	Spike	94		ug/L	94	D	20.0	Yes	S3VE
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichloroethene	Spike	2300		ug/L	2300	E D	20.0	Yes	S3VE
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Toluene	Spike	95		ug/L	95	D	20.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chlorobenzene	Spike	97		ug/L	97	D	20.0	Yes	S3VE
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Unknown Alkane-01	TIC	13	J D	ug/L	13	J D	20.0	Yes	NV
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N6MSD	Method: Aroclors	Matrix: Water	MA Number:
Sample Location:	pH: 7	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	3.2		ug/L	3.2		1.0	Yes	S3VE
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1260	Spike	3.6		ug/L	3.6		1.0	Yes	S3VE
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: YA8P0	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JW-RL02-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 07:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: YA8P5	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JW-RL03-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 07:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Chloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Vinyl chloride	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Bromomethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Chloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Trichlorofluoromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,1-Dichloroethene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Acetone	Target	25	U	ug/L	25	U	5.0	Yes	S3VE
Carbon disulfide	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Methyl acetate	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Methylene chloride	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Methyl tert-butyl ether	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,1-Dichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
2-Butanone	Target	25	U	ug/L	25	U	5.0	Yes	S3VE
Bromochloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Chloroform	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,1,1-Trichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Cyclohexane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Carbon tetrachloride	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Benzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,2-Dichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Trichloroethene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Methylcyclohexane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,2-Dichloropropane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Bromodichloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
4-Methyl-2-pentanone	Target	25	U	ug/L	25	U	5.0	Yes	S3VE
Toluene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,1,2-Trichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Tetrachloroethene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
2-Hexanone	Target	25	U	ug/L	25	U	5.0	Yes	S3VE
Dibromochloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,2-Dibromoethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Chlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Ethylbenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
o-Xylene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
m, p-Xylene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Styrene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Bromoform	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
Isopropylbenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,3-Dichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,4-Dichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,2-Dichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE
1,2,3-Trichloropropane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8P6	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-08A-1116	pH:	8	Sample Date:	11/30/2016	Sample Time:	12:44:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.53		ug/L	0.53	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P6	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-08A-1116	pH: 8	Sample Date: 11/30/2016	Sample Time: 12:44:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.9	U	ug/L	1.9	U	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butoxyacetic acid	TIC	2.3	NJ	ug/L	2.3	NJ	1.0	Yes	NV
Unknown-01	TIC	5.7	J	ug/L	5.7	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P6	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-08A-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 12:44:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.23	J	ug/L	0.23	J	1.0	Yes	S3VE
Vinyl chloride	Target	0.23	J	ug/L	0.23	J	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.80		ug/L	0.80		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	4.1	J	ug/L	4.1	J	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	2.6		ug/L	2.6		1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	32		ug/L	32	D	5.0	Yes	S3VE
2-Butanone	Target	5.0	UJ	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	2.9		ug/L	2.9		1.0	Yes	S3VE
Trichloroethene	Target	40		ug/L	40	D	5.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-04	TIC	0.67	J	ug/L	0.67	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrasiloxane, decamethyl-	TIC	1.2	NJ	ug/L	1.2	NJ	1.0	Yes	NV
Unknown-01	TIC	1.0	J	ug/L	1.0	J	1.0	Yes	NV
Unknown-03	TIC	1.6	J	ug/L	1.6	J	1.0	Yes	NV
Unknown-05	TIC	0.80	J	ug/L	0.80	J	1.0	Yes	NV
Unknown-02	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV
Unknown-06	TIC	1.6	J	ug/L	1.6	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P7	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-08B-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 11:04:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.20	J	ug/L	0.20	J	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.3		ug/L	5.3		1.0	Yes	S3VE
Carbon disulfide	Target	0.35	J	ug/L	0.35	J	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.38	J	ug/L	0.38	J	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	2.2		ug/L	2.2		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	4.4		ug/L	4.4		1.0	Yes	S3VE
Trichloroethene	Target	3.1		ug/L	3.1		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.28	J	ug/L	0.28	J	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-08	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV
Tetrasiloxane, decamethyl-	TIC	7.4	NJ	ug/L	7.4	NJ	1.0	Yes	NV
Unknown-01	TIC	3.4	J	ug/L	3.4	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-03	TIC	0.76	J	ug/L	0.76	J	1.0	Yes	NV
Unknown-06	TIC	1.9	J	ug/L	1.9	J	1.0	Yes	NV
Unknown-05	TIC	0.59	J	ug/L	0.59	J	1.0	Yes	NV
Unknown-07	TIC	1.1	J	ug/L	1.1	J	1.0	Yes	NV
Unknown-09	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Unknown-04	TIC	0.60	J	ug/L	0.60	J	1.0	Yes	NV
Cyclotrisiloxane, hexamethyl-	TIC	1.2	NJ	ug/L	1.2	NJ	1.0	Yes	NV
Unknown-02	TIC	7.5	J	ug/L	7.5	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P7	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-08B-1116	pH: 8	Sample Date: 11/30/2016	Sample Time: 11:04:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.60	J	ug/L	0.60	J	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-28	TIC	29	J	ug/L	29	J	1.0	Yes	NV
Unknown-07	TIC	7.2	J	ug/L	7.2	J	1.0	Yes	NV
Unknown-12	TIC	7.4	J	ug/L	7.4	J	1.0	Yes	NV
Unknown-25	TIC	7.4	J	ug/L	7.4	J	1.0	Yes	NV
Unknown-29	TIC	9.5	J	ug/L	9.5	J	1.0	Yes	NV
Unknown-01	TIC	23	J	ug/L	23	J	1.0	Yes	NV
Unknown-24	TIC	18	J	ug/L	18	J	1.0	Yes	NV
Unknown-27	TIC	41	J	ug/L	41	J	1.0	Yes	NV
Unknown-16	TIC	8.5	J	ug/L	8.5	J	1.0	Yes	NV
Unknown-09	TIC	6.3	J	ug/L	6.3	J	1.0	Yes	NV
Unknown-15	TIC	21	J	ug/L	21	J	1.0	Yes	NV
Unknown-23	TIC	8.3	J	ug/L	8.3	J	1.0	Yes	NV
Unknown-17	TIC	6.3	J	ug/L	6.3	J	1.0	Yes	NV
Unknown-03	TIC	50	J	ug/L	50	J	1.0	Yes	NV
Unknown-11	TIC	14	J	ug/L	14	J	1.0	Yes	NV
Unknown-10	TIC	6.5	J	ug/L	6.5	J	1.0	Yes	NV
Unknown-13	TIC	12	J	ug/L	12	J	1.0	Yes	NV
Unknown-18	TIC	5.7	J	ug/L	5.7	J	1.0	Yes	NV
Unknown-04	TIC	34	J	ug/L	34	J	1.0	Yes	NV
Unknown-19	TIC	20	J	ug/L	20	J	1.0	Yes	NV
Unknown-26	TIC	18	J	ug/L	18	J	1.0	Yes	NV
6-Octadecenoic acid	TIC	7.3	NJ	ug/L	7.3	NJ	1.0	Yes	NV
Unknown-05	TIC	49	J	ug/L	49	J	1.0	Yes	NV
Unknown-02	TIC	16	J	ug/L	16	J	1.0	Yes	NV
Unknown-20	TIC	24	J	ug/L	24	J	1.0	Yes	NV
Unknown-14	TIC	25	J	ug/L	25	J	1.0	Yes	NV
Unknown-21	TIC	14	J	ug/L	14	J	1.0	Yes	NV
Unknown-06	TIC	13	J	ug/L	13	J	1.0	Yes	NV
Unknown-30	TIC	39	J	ug/L	39	J	1.0	Yes	NV
Unknown-08	TIC	8.9	J	ug/L	8.9	J	1.0	Yes	NV
Unknown-22	TIC	14	J	ug/L	14	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8P7	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-08B-1116	pH:	8	Sample Date:	11/30/2016	Sample Time:	11:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.48		ug/L	0.48	B	1.0	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8P8	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-08C-1116	pH:	8	Sample Date:	11/30/2016	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.53		ug/L	0.53	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P8	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-08C-1116	pH: 8	Sample Date: 11/30/2016	Sample Time: 09:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.63	J	ug/L	0.63	J	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-06	TIC	9.5	J	ug/L	9.5	J	1.0	Yes	NV
Unknown-11	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV
Unknown-02	TIC	3.6	J	ug/L	3.6	J	1.0	Yes	NV
Unknown-22	TIC	4.3	J	ug/L	4.3	J	1.0	Yes	NV
Unknown-24	TIC	4.2	J	ug/L	4.2	J	1.0	Yes	NV
6-Octadecenoic acid	TIC	3.0	NJ	ug/L	3.0	NJ	1.0	Yes	NV
Unknown-12	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Unknown-16	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV
Unknown-05	TIC	4.8	J	ug/L	4.8	J	1.0	Yes	NV
Unknown-13	TIC	2.4	J	ug/L	2.4	J	1.0	Yes	NV
Unknown-20	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV
Unknown-15	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV
Unknown-25	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV
Unknown-07	TIC	4.4	J	ug/L	4.4	J	1.0	Yes	NV
Unknown-27	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV
Unknown-19	TIC	1.9	J	ug/L	1.9	J	1.0	Yes	NV
Unknown-21	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV
Unknown-04	TIC	4.0	J	ug/L	4.0	J	1.0	Yes	NV
Unknown-17	TIC	3.6	J	ug/L	3.6	J	1.0	Yes	NV
9-Octadecenoic acid, (E)-	TIC	4.2	NJ	ug/L	4.2	NJ	1.0	Yes	NV
Unknown-14	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Unknown-26	TIC	5.3	J	ug/L	5.3	J	1.0	Yes	NV
Unknown-03	TIC	6.5	J	ug/L	6.5	J	1.0	Yes	NV
Unknown-18	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV
Unknown-09	TIC	4.6	J	ug/L	4.6	J	1.0	Yes	NV
Unknown-10	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Unknown-08	TIC	2.5	J	ug/L	2.5	J	1.0	Yes	NV
Unknown-01	TIC	7.1	J	ug/L	7.1	J	1.0	Yes	NV
Unknown-23	TIC	2.7	J	ug/L	2.7	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P8	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-08C-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 09:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.17	J	ug/L	0.17	J	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.72		ug/L	0.72		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.52		ug/L	0.52		1.0	Yes	S3VE
1,2-Dichloroethane	Target	8.0		ug/L	8.0		1.0	Yes	S3VE
Trichloroethene	Target	1.4		ug/L	1.4		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.33	J	ug/L	0.33	J	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-07	TIC	1.6	J	ug/L	1.6	J	1.0	Yes	NV
Unknown-02	TIC	1.4	J	ug/L	1.4	J	1.0	Yes	NV
Tetrasiloxane, decamethyl-	TIC	2.4	NJ	ug/L	2.4	NJ	1.0	Yes	NV
Unknown-06	TIC	0.57	J	ug/L	0.57	J	1.0	Yes	NV
Unknown-04	TIC	0.82	J	ug/L	0.82	J	1.0	Yes	NV
Unknown-03	TIC	1.1	J	ug/L	1.1	J	1.0	Yes	NV
Unknown-08	TIC	0.58	J	ug/L	0.58	J	1.0	Yes	NV
Unknown-01	TIC	4.0	J	ug/L	4.0	J	1.0	Yes	NV
Unknown-05	TIC	0.74	J	ug/L	0.74	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-09	TIC	1.9	J	ug/L	1.9	J	1.0	Yes	NV
Cyclotrisiloxane, hexamethyl-	TIC	0.71	NJ	ug/L	0.71	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P9	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-09A-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 12:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Chloromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Vinyl chloride	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Bromomethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Chloroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Trichlorofluoromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,1-Dichloroethene	Target	35		ug/L	35	D	50.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Acetone	Target	250	U	ug/L	250	U	50.0	Yes	S3VE
Carbon disulfide	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Methyl acetate	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Methylene chloride	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	79		ug/L	79	D	50.0	Yes	S3VE
Methyl tert-butyl ether	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,1-Dichloroethane	Target	20	J	ug/L	20	J D	50.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	3400		ug/L	3400	D	500.0	Yes	S3VE
2-Butanone	Target	250	U	ug/L	250	U	50.0	Yes	S3VE
Bromochloromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Chloroform	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,1,1-Trichloroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Cyclohexane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Carbon tetrachloride	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Benzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,2-Dichloroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Trichloroethene	Target	44		ug/L	44	D	50.0	Yes	S3VE
Methylcyclohexane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,2-Dichloropropane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Bromodichloromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
4-Methyl-2-pentanone	Target	250	U	ug/L	250	U	50.0	Yes	S3VE
Toluene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,1,2-Trichloroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Tetrachloroethene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
2-Hexanone	Target	250	U	ug/L	250	U	50.0	Yes	S3VE
Dibromochloromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,2-Dibromoethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Chlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Ethylbenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
o-Xylene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
m, p-Xylene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Styrene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Bromoform	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
Isopropylbenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,3-Dichlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,4-Dichlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,2-Dichlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VE
1,2,3-Trichloropropane	Target	25	U	ug/L	25	U	50.0	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8P9	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-09A-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	34		ug/L	34	DB	10.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number:	YA8P9	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09A-1116	pH:	7	Sample Date:	11/28/2016	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P9	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-09A-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 12:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	24		ug/L	24		1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-01	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-2-methyl-	TIC	2.5	NJ	ug/L	2.5	NJ	1.0	Yes	NV
Octadec-9-enoic acid	TIC	2.0	NJ	ug/L	2.0	NJ	1.0	Yes	NV
6-Octadecenoic acid	TIC	2.6	NJ	ug/L	2.6	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q0	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-09B-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 11:08:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.9	U	ug/L	1.9	U	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzeneacetic acid	TIC	110	NJ	ug/L	110	NJ	1.0	Yes	NV
Oleic Acid	TIC	7.6	NJ	ug/L	7.6	NJ	1.0	Yes	NV
Unknown-06	TIC	2.6	J	ug/L	2.6	J	1.0	Yes	NV
6-Octadecenoic acid	TIC	7.8	NJ	ug/L	7.8	NJ	1.0	Yes	NV
2(3H)-Benzothiazolone	TIC	1.9	NJ	ug/L	1.9	NJ	1.0	Yes	NV
Unknown-05	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV
Propanoic acid, 3-(methylthio)-	TIC	33	NJ	ug/L	33	NJ	1.0	Yes	NV
Unknown-03	TIC	59	J	ug/L	59	J	1.0	Yes	NV
Formamide, N-phenyl-	TIC	2.1	NJ	ug/L	2.1	NJ	1.0	Yes	NV
Unknown-15	TIC	1.9	J	ug/L	1.9	J	1.0	Yes	NV
Benzoic acid	TIC	4.0	NJ	ug/L	4.0	NJ	1.0	Yes	NV
Unknown-04	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV
Indole	TIC	14	NJ	ug/L	14	NJ	1.0	Yes	NV
Ethanol, 2-[2-(2-butoxyethoxy)ethoxy]-	TIC	4.0	NJ	ug/L	4.0	NJ	1.0	Yes	NV
Butanoic acid	TIC	37	NJ	ug/L	37	NJ	1.0	Yes	NV
Unknown-10	TIC	7.6	J	ug/L	7.6	J	1.0	Yes	NV
Propanoic acid, 2-methyl-	TIC	17	NJ	ug/L	17	NJ	1.0	Yes	NV
Unknown-13	TIC	6.2	J	ug/L	6.2	J	1.0	Yes	NV
Pyridine, 3-methyl-	TIC	2.6	NJ	ug/L	2.6	NJ	1.0	Yes	NV
Unknown-08	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV
Unknown-12	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV
Unknown-14	TIC	7.4	J	ug/L	7.4	J	1.0	Yes	NV
Propiconazole	TIC	2.2	NJ	ug/L	2.2	NJ	1.0	Yes	NV
Unknown-11	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV
Unknown-07	TIC	3.6	J	ug/L	3.6	J	1.0	Yes	NV
Unknown-09	TIC	6.6	J	ug/L	6.6	J	1.0	Yes	NV
Unknown-01	TIC	9.2	J	ug/L	9.2	J	1.0	Yes	NV
Unknown-02	TIC	160	J	ug/L	160	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number:	YA8Q0	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09B-1116	pH:	7	Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q0	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-09B-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.51		ug/L	0.51	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q0	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-09B-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 11:08:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.35	J	ug/L	0.35	J	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.1		ug/L	5.1		1.0	Yes	S3VE
Carbon disulfide	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.43	J	ug/L	0.43	J	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.17	J	ug/L	0.17	J	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	7.9		ug/L	7.9		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	4.1		ug/L	4.1		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyltris(trimethylsiloxy)silane	TIC	3.8	NJ	ug/L	3.8	NJ	1.0	Yes	NV
Unknown-05	TIC	2.7	J	ug/L	2.7	J	1.0	Yes	NV
Cyclotrisiloxane, hexamethyl-	TIC	1.2	NJ	ug/L	1.2	NJ	1.0	Yes	NV
Unknown-04	TIC	1.7	J	ug/L	1.7	J	1.0	Yes	NV
Unknown-02	TIC	0.66	J	ug/L	0.66	J	1.0	Yes	NV
Unknown-03	TIC	0.68	J	ug/L	0.68	J	1.0	Yes	NV
Furan, 2-methyl-	TIC	0.54	NJ	ug/L	0.54	NJ	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-01	TIC	2.4	J	ug/L	2.4	J	1.0	Yes	NV
Unknown-06	TIC	0.68	J	ug/L	0.68	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q1	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-09C-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 10:13:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.62	J-	ug/L	0.62	J	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
6-Octadecenoic acid	TIC	4.8	NJ	ug/L	4.8	NJ	1.0	Yes	NV
Unknown-01	TIC	15	J	ug/L	15	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number:	YA8Q1	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09C-1116	pH:	7	Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q1	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-09C-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.64		ug/L	0.64	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI	
Sample Number: YA8Q1	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2	
Sample Location: JWMW-09C-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 10:13:00	
% Moisture :		% Solids :		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.31	J	ug/L	0.31	J	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.23	J	ug/L	0.23	J	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	8.3		ug/L	8.3		1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	1.7		ug/L	1.7		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.16	J	ug/L	0.16	J	1.0	Yes	S3VE
1,2-Dichloroethane	Target	11		ug/L	11		1.0	Yes	S3VE
Trichloroethene	Target	0.61		ug/L	0.61		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.22	J	ug/L	0.22	J	1.0	Yes	S3VE
Unknown-01	TIC	1.8	J	ug/L	1.8	J	1.0	Yes	NV
Unknown-03	TIC	1.3	J	ug/L	1.3	J	1.0	Yes	NV
Unknown-02	TIC	5.2	J	ug/L	5.2	J	1.0	Yes	NV
Unknown-04	TIC	4.1	J	ug/L	4.1	J	1.0	Yes	NV
Unknown-05	TIC	1.2	J	ug/L	1.2	J	1.0	Yes	NV
Unknown-06	TIC	3.3	J	ug/L	3.3	J	1.0	Yes	NV
Unknown-07	TIC	0.99	J	ug/L	0.99	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q2	Method: Aroclors	Matrix: Water	MA Number:
Sample Location: JWMW-10-1116	pH: 7	Sample Date: 11/28/2016	Sample Time: 09:14:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q2	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-10-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	09:14:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.19	J	ug/L	0.19	JB	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI	
Sample Number: YA8Q2	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2	
Sample Location: JWMW-10-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 09:14:00	
% Moisture :		% Solids :		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S3VE
2-Butanone	Target	5.0	UJ	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.96		ug/L	0.96		1.0	Yes	S3VE
Trichloroethene	Target	0.32	J	ug/L	0.32	J	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-01	TIC	0.96	J	ug/L	0.96	J	1.0	Yes	NV
Unknown-02	TIC	0.51	J	ug/L	0.51	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-04	TIC	0.95	J	ug/L	0.95	J	1.0	Yes	NV
Unknown-03	TIC	0.92	J	ug/L	0.92	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q2	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-10-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 09:14:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.9	UJ	ug/L	1.9	U	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Oleic Acid	TIC	2.3	NJ	ug/L	2.3	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q4	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-11A-1116	pH: 8	Sample Date: 11/29/2016	Sample Time: 12:48:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.8		ug/L	4.8		1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-02	TIC	3.1	J	ug/L	3.1	J	1.0	Yes	NV
Octadec-9-enoic acid	TIC	3.3	NJ	ug/L	3.3	NJ	1.0	Yes	NV
Unknown-03	TIC	3.3	J	ug/L	3.3	J	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-2-methyl-	TIC	3.7	NJ	ug/L	3.7	NJ	1.0	Yes	NV
Unknown-01	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q4	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-11A-1116	pH:	8	Sample Date:	11/29/2016	Sample Time:	12:48:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	3.6		ug/L	3.6	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q4	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-11A-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 12:48:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.40	J	ug/L	0.40	J	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	1.8		ug/L	1.8		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	2.3		ug/L	2.3		1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.45	J	ug/L	0.45	J	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	72		ug/L	72	D	10.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.62		ug/L	0.62		1.0	Yes	S3VE
Trichloroethene	Target	21		ug/L	21	D	10.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-03	TIC	1.3	J	ug/L	1.3	J	1.0	Yes	NV
Unknown-02	TIC	1.4	J	ug/L	1.4	J	1.0	Yes	NV
Unknown-01	TIC	1.1	J	ug/L	1.1	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q5	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-11B-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 11:03:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethene	Target	17		ug/L	17	D	20.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	38		ug/L	38	D	20.0	Yes	S3VE
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethane	Target	8.3	J	ug/L	8.3	J D	20.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	1600		ug/L	1600	D	200.0	Yes	S3VE
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Benzene	Target	2.8	J	ug/L	2.8	J D	20.0	Yes	S3VE
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichloroethene	Target	3.6	J	ug/L	3.6	J D	20.0	Yes	S3VE
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Toluene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q5	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-11B-1116	pH:	8	Sample Date:	11/29/2016	Sample Time:	11:03:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	43		ug/L	43	DB	20.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q5	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-11B-1116	pH: 8	Sample Date: 11/29/2016	Sample Time: 11:03:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	41		ug/L	41	D	2.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Octadec-9-enoic acid	TIC	2.1	NJ	ug/L	2.1	NJ	1.0	Yes	NV
Unknown-01	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI	
Sample Number: YA8Q6	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2	
Sample Location: JWMW-911B-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 11:13:00	
% Moisture :		% Solids :		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethene	Target	17		ug/L	17	D	20.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	39		ug/L	39	D	20.0	Yes	S3VE
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1-Dichloroethane	Target	8.2	J	ug/L	8.2	J D	20.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	1600		ug/L	1600	D	200.0	Yes	S3VE
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Benzene	Target	2.7	J	ug/L	2.7	J D	20.0	Yes	S3VE
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Trichloroethene	Target	2.8	J	ug/L	2.8	J D	20.0	Yes	S3VE
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Toluene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VE
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Chlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VE
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q6	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-911B-1116	pH: 8	Sample Date: 11/29/2016	Sample Time: 11:13:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	30		ug/L	30	D	2.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-01	TIC	2.7	J	ug/L	2.7	J	1.0	Yes	NV
N,N'-Dibenzylidene-3,3'-dichlorobenzidin	TIC	12	NJ D	ug/L	12	NJ D	2.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q6	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-911B-1116	pH:	8	Sample Date:	11/29/2016	Sample Time:	11:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	44		ug/L	44	DB	10.0	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q7	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-11C-1116	pH:	8	Sample Date:	11/29/2016	Sample Time:	09:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.2		ug/L	2.2	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q7	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-11C-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.18	J	ug/L	0.18	J	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.56		ug/L	0.56		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	3.5		ug/L	3.5		1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.30	J	ug/L	0.30	J	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	59		ug/L	59	D	10.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.31	J	ug/L	0.31	J	1.0	Yes	S3VE
1,2-Dichloroethane	Target	1.7		ug/L	1.7		1.0	Yes	S3VE
Trichloroethene	Target	5.9		ug/L	5.9		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-01	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q7	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-11C-1116	pH: 8	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.5	J	ug/L	1.5	J	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-03	TIC	3.4	J	ug/L	3.4	J	1.0	Yes	NV
Unknown-01	TIC	2.6	J	ug/L	2.6	J	1.0	Yes	NV
Unknown-02	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Oleic Acid	TIC	2.7	NJ	ug/L	2.7	NJ	1.0	Yes	NV
Unknown-04	TIC	4.6	J	ug/L	4.6	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q8	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-12-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 08:11:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.64		ug/L	0.64		1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.48	J	ug/L	0.48	J	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	12		ug/L	12		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	1.8		ug/L	1.8		1.0	Yes	S3VE
Trichloroethene	Target	2.1		ug/L	2.1		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-01	TIC	0.86	J	ug/L	0.86	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-02	TIC	0.57	J	ug/L	0.57	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q8	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-12-1116	pH:	8	Sample Date:	11/29/2016	Sample Time:	08:11:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.6		ug/L	2.6	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q8	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-12-1116	pH: 8	Sample Date: 11/29/2016	Sample Time: 08:11:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.3		ug/L	2.3		1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Sample Summary Report

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	ABLK96	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1260	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: ALCS96	Method: Aroclors	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	0.88	J	ug/L	0.88	J	1.0	Yes	S3VEM
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1260	Spike	0.95	J	ug/L	0.95	J	1.0	Yes	S3VEM
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: SBLK24	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0	U	ug/L	2.0	U	1.0	Yes	S3VEM
Benzaldehyde	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Phenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2-Methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Acetophenone	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Hexachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Nitrobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Isophorone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Naphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Caprolactam	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Acenaphthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Dibenzofuran	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Diethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Fluorene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Atrazine	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Phenanthrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbazole	Target	10	UJ	ug/L	10	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Fluoranthene	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	10	UJ	ug/L	10	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Chrysene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	3.3	J	ug/L	3.3	J	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: SBLK28	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2445.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.12	J	ug/L	0.12	J	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: SBLK60	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2445.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: SLCS28	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2445.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	0.29	JB	ug/L	0.29	JB	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: SLCS60	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2445.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	0.55	B	ug/L	0.55	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VBLKNV	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VBLKOF	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-01	TIC	0.54	J	ug/L	0.54	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VBLKOR	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	UJ	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclotetrasiloxane, octamethyl-	TIC	0.76	NJ	ug/L	0.76	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VBLKPC	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VBLKQG	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N0	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-98B-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 11:10:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	6.3		ug/L	6.3		1.0	Yes	S3VEM
Carbon disulfide	Target	0.42	J	ug/L	0.42	J	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.37	J	ug/L	0.37	J	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	2.1		ug/L	2.1		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	4.2		ug/L	4.2		1.0	Yes	S3VEM
Trichloroethene	Target	2.9		ug/L	2.9		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.22	J	ug/L	0.22	J	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-10	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV
2-Methyl-2-bornene	TIC	2.1	NJ	ug/L	2.1	NJ	1.0	Yes	NV
Unknown-03	TIC	1.5	J	ug/L	1.5	J	1.0	Yes	NV
Unknown-07	TIC	0.60	J	ug/L	0.60	J	1.0	Yes	NV
Unknown-04	TIC	0.95	J	ug/L	0.95	J	1.0	Yes	NV
Unknown-01	TIC	3.9	J	ug/L	3.9	J	1.0	Yes	NV
Unknown-06	TIC	0.64	J	ug/L	0.64	J	1.0	Yes	NV
Unknown-05	TIC	0.53	J	ug/L	0.53	J	1.0	Yes	NV
Unknown-02	TIC	7.0	J	ug/L	7.0	J	1.0	Yes	NV
Unknown-08	TIC	0.53	J	ug/L	0.53	J	1.0	Yes	NV
Unknown-09	TIC	0.65	J	ug/L	0.65	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N0	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-98B-1116	pH: 8	Sample Date: 11/30/2016	Sample Time: 11:10:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.60	J	ug/L	0.60	J	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Unknown-15	TIC	14	J	ug/L	14	J	1.0	Yes	NV
Unknown-23	TIC	44	J	ug/L	44	J	1.0	Yes	NV
Unknown-07	TIC	8.8	J	ug/L	8.8	J	1.0	Yes	NV
Unknown-16	TIC	21	J	ug/L	21	J	1.0	Yes	NV
Unknown-19	TIC	9.0	J	ug/L	9.0	J	1.0	Yes	NV
Unknown-24	TIC	16	J	ug/L	16	J	1.0	Yes	NV
Unknown-10	TIC	33	J	ug/L	33	J	1.0	Yes	NV
Unknown-26	TIC	32	J	ug/L	32	J	1.0	Yes	NV
Unknown-28	TIC	38	J	ug/L	38	J	1.0	Yes	NV
Unknown-09	TIC	20	J	ug/L	20	J	1.0	Yes	NV
Unknown-27	TIC	160	J	ug/L	160	J	1.0	Yes	NV
Unknown-21	TIC	9.6	J	ug/L	9.6	J	1.0	Yes	NV
Unknown-25	TIC	82	J	ug/L	82	J	1.0	Yes	NV
Unknown-06	TIC	16	J	ug/L	16	J	1.0	Yes	NV
Unknown-22	TIC	9.5	J	ug/L	9.5	J	1.0	Yes	NV
Unknown-14	TIC	22	J	ug/L	22	J	1.0	Yes	NV
Unknown-20	TIC	26	J	ug/L	26	J	1.0	Yes	NV
Unknown-03	TIC	48	J	ug/L	48	J	1.0	Yes	NV
Unknown-02	TIC	30	J	ug/L	30	J	1.0	Yes	NV
Unknown-05	TIC	16	J	ug/L	16	J	1.0	Yes	NV
Unknown-29	TIC	37	J	ug/L	37	J	1.0	Yes	NV
6-Octadecenoic acid	TIC	17	NJ	ug/L	17	NJ	1.0	Yes	NV
Unknown-11	TIC	14	J	ug/L	14	J	1.0	Yes	NV
Unknown-04	TIC	11	J	ug/L	11	J	1.0	Yes	NV
Unknown-12	TIC	10	J	ug/L	10	J	1.0	Yes	NV
Unknown-18	TIC	22	J	ug/L	22	J	1.0	Yes	NV
Unknown-17	TIC	13	J	ug/L	13	J	1.0	Yes	NV
Unknown-01	TIC	40	J	ug/L	40	J	1.0	Yes	NV
Unknown-08	TIC	13	J	ug/L	13	J	1.0	Yes	NV
Unknown-13	TIC	26	J	ug/L	26	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8N0	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-98B-1116	pH:	7	Sample Date:	11/30/2016	Sample Time:	11:10:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.51		ug/L	0.51	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N3	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JW-RL01-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 07:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number:	YA8N4	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JW-EL01-1116	pH:	7	Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8N4	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JW-EL01-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.53		ug/L	0.53	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N4	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JW-EL01-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 13:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.18	J	ug/L	0.18	J	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-01	TIC	0.50	J	ug/L	0.50	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N4	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JW-EL01-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 13:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.9	U	ug/L	1.9	U	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	1.4	J	ug/L	1.4	J	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	0.40	J	ug/L	0.40	J	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Unknown-03	TIC	13	J	ug/L	13	J	1.0	Yes	NV
Unknown-06	TIC	1.9	J	ug/L	1.9	J	1.0	Yes	NV
Unknown-05	TIC	4.5	J	ug/L	4.5	J	1.0	Yes	NV
Pentanoic acid, 3-methyl-	TIC	2.2	NJ	ug/L	2.2	NJ	1.0	Yes	NV
Unknown-02	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV
Butanoic acid	TIC	11	NJ	ug/L	11	NJ	1.0	Yes	NV
Unknown-08	TIC	2.6	J	ug/L	2.6	J	1.0	Yes	NV
Unknown-01	TIC	4.1	J	ug/L	4.1	J	1.0	Yes	NV
Nonanoic acid	TIC	2.6	NJ	ug/L	2.6	NJ	1.0	Yes	NV
Unknown-09	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV
Unknown-07	TIC	6.4	J	ug/L	6.4	J	1.0	Yes	NV
Oxybenzone	TIC	2.6	NJ	ug/L	2.6	NJ	1.0	Yes	NV
Unknown-04	TIC	4.5	J	ug/L	4.5	J	1.0	Yes	NV
Heptanoic acid	TIC	3.1	NJ	ug/L	3.1	NJ	1.0	Yes	NV
Unknown-10	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV
2-Hexanone	TIC	5.4	NJ	ug/L	5.4	NJ	1.0	Yes	NV
3-Heptanone	TIC	5.0	NJ	ug/L	5.0	NJ	1.0	Yes	NV
Octadec-9-enoic acid	TIC	4.0	NJ	ug/L	4.0	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N5	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-04-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 08:04:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethene	Target	26		ug/L	26	D	20.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	38		ug/L	38	D	20.0	Yes	S3VEM
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethane	Target	12		ug/L	12	D	20.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	2400		ug/L	2400	D	200.0	Yes	S3VEM
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Benzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichloroethene	Target	490		ug/L	490	D	200.0	Yes	S3VEM
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Toluene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Cyclotetrasiloxane, octamethyl-	TIC	10	NJ D	ug/L	10	NJ D	20.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N5	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-04-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 08:04:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	19		ug/L	19		1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,5-di-tert-Butyl-4-hydroxyphenylpropion	TIC	11	NJ	ug/L	11	NJ	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-4-methyl-	TIC	2.1	NJ	ug/L	2.1	NJ	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-2-methyl-	TIC	3.4	NJ	ug/L	3.4	NJ	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8N5	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-04-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	26	J+	ug/L	26	DB	10.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number:	YA8N5	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JWMW-04-1116	pH:	7	Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N6	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-05-1116	pH: 8	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	16	J+	ug/L	16		1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzenesulfonamide, N-ethyl-4-methyl-	TIC	3.5	NJ	ug/L	3.5	NJ	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-2-methyl-	TIC	6.2	NJ	ug/L	6.2	NJ	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8N6	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-05-1116	pH:	8	Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	19	J+	ug/L	19	DB	10.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number:	YA8N6	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JWMW-05-1116	pH:	7	Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1260	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N6	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-05-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethene	Target	21		ug/L	21	D	20.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	21		ug/L	21	D	20.0	Yes	S3VEM
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethane	Target	10		ug/L	10	D	20.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	260		ug/L	260	D	20.0	Yes	S3VEM
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Benzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichloroethene	Target	2400		ug/L	2400	D	200.0	Yes	S3VEM
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Toluene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Unknown-02	TIC	78	J D	ug/L	78	J D	20.0	Yes	NV
Unknown-03	TIC	23	J D	ug/L	23	J D	20.0	Yes	NV
Unknown Alkane-01	TIC	77	J D	ug/L	77	J D	20.0	Yes	NV
Unknown-01	TIC	120	J D	ug/L	120	J D	20.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: YA8N6MS	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH: 2	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethene	Spike	110		ug/L	110	D	20.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	20		ug/L	20	D	20.0	Yes	S3VEM
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethane	Target	9.8	J	ug/L	9.8	J D	20.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	260		ug/L	260	D	20.0	Yes	S3VEM
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Benzene	Spike	98		ug/L	98	D	20.0	Yes	S3VEM
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichloroethene	Spike	2300		ug/L	2300	E D	20.0	Yes	S3VEM
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Toluene	Spike	100		ug/L	100	D	20.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chlorobenzene	Spike	100		ug/L	100	D	20.0	Yes	S3VEM
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Unknown-01	TIC	22	J D	ug/L	22	J D	20.0	Yes	NV
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Unknown-02	TIC	13	J D	ug/L	13	J D	20.0	Yes	NV
Unknown-03	TIC	11	J D	ug/L	11	J D	20.0	Yes	NV
Unknown Alkane-01	TIC	21	J D	ug/L	21	J D	20.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N6MS	Method: Aroclors	Matrix: Water	MA Number:
Sample Location:	pH: 7	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	3.2		ug/L	3.2		1.0	Yes	S3VEM
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1260	Spike	3.6		ug/L	3.6		1.0	Yes	S3VEM
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8N6MSD	Method: Aroclors	Matrix: Water	MA Number:
Sample Location:	pH: 7	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	3.2		ug/L	3.2		1.0	Yes	S3VEM
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1260	Spike	3.6		ug/L	3.6		1.0	Yes	S3VEM
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: YA8N6MSD	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH: 2	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethene	Spike	110		ug/L	110	D	20.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	21		ug/L	21	D	20.0	Yes	S3VEM
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethane	Target	10		ug/L	10	D	20.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	260		ug/L	260	D	20.0	Yes	S3VEM
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Benzene	Spike	94		ug/L	94	D	20.0	Yes	S3VEM
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichloroethene	Spike	2300		ug/L	2300	E D	20.0	Yes	S3VEM
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Toluene	Spike	95		ug/L	95	D	20.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chlorobenzene	Spike	97		ug/L	97	D	20.0	Yes	S3VEM
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Unknown Alkane-01	TIC	13	J D	ug/L	13	J D	20.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI
Sample Number: YA8P0	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JW-RL02-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 07:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P5	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JW-RL03-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 07:30:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	UJ	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P6	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-08A-1116	pH: 8	Sample Date: 11/30/2016	Sample Time: 12:44:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.9	U	ug/L	1.9	U	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Unknown-01	TIC	5.7	J	ug/L	5.7	J	1.0	Yes	NV
Butoxyacetic acid	TIC	2.3	NJ	ug/L	2.3	NJ	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8P6	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-08A-1116	pH:	8	Sample Date:	11/30/2016	Sample Time:	12:44:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.53		ug/L	0.53	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P6	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-08A-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 12:44:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.23	J	ug/L	0.23	J	1.0	Yes	S3VEM
Vinyl chloride	Target	0.23	J	ug/L	0.23	J	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.80		ug/L	0.80		1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	4.1	J	ug/L	4.1	J	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	2.6		ug/L	2.6		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	32		ug/L	32	D	5.0	Yes	S3VEM
2-Butanone	Target	5.0	UJ	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	2.9		ug/L	2.9		1.0	Yes	S3VEM
Trichloroethene	Target	40		ug/L	40	D	5.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-05	TIC	0.80	J	ug/L	0.80	J	1.0	Yes	NV
Unknown-04	TIC	0.67	J	ug/L	0.67	J	1.0	Yes	NV
Unknown-06	TIC	1.6	J	ug/L	1.6	J	1.0	Yes	NV
Unknown-01	TIC	1.0	J	ug/L	1.0	J	1.0	Yes	NV
Unknown-02	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-03	TIC	1.6	J	ug/L	1.6	J	1.0	Yes	NV
Tetrasiloxane, decamethyl-	TIC	1.2	NJ	ug/L	1.2	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P7	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-08B-1116	pH: 8	Sample Date: 11/30/2016	Sample Time: 11:04:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.60	J	ug/L	0.60	J	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Unknown-20	TIC	24	J	ug/L	24	J	1.0	Yes	NV
Unknown-12	TIC	7.4	J	ug/L	7.4	J	1.0	Yes	NV
Unknown-01	TIC	23	J	ug/L	23	J	1.0	Yes	NV
Unknown-15	TIC	21	J	ug/L	21	J	1.0	Yes	NV
Unknown-18	TIC	5.7	J	ug/L	5.7	J	1.0	Yes	NV
Unknown-02	TIC	16	J	ug/L	16	J	1.0	Yes	NV
Unknown-10	TIC	6.5	J	ug/L	6.5	J	1.0	Yes	NV
Unknown-28	TIC	29	J	ug/L	29	J	1.0	Yes	NV
Unknown-29	TIC	9.5	J	ug/L	9.5	J	1.0	Yes	NV
Unknown-22	TIC	14	J	ug/L	14	J	1.0	Yes	NV
Unknown-04	TIC	34	J	ug/L	34	J	1.0	Yes	NV
Unknown-06	TIC	13	J	ug/L	13	J	1.0	Yes	NV
Unknown-24	TIC	18	J	ug/L	18	J	1.0	Yes	NV
Unknown-03	TIC	50	J	ug/L	50	J	1.0	Yes	NV
Unknown-27	TIC	41	J	ug/L	41	J	1.0	Yes	NV
Unknown-09	TIC	6.3	J	ug/L	6.3	J	1.0	Yes	NV
Unknown-16	TIC	8.5	J	ug/L	8.5	J	1.0	Yes	NV
Unknown-08	TIC	8.9	J	ug/L	8.9	J	1.0	Yes	NV
Unknown-25	TIC	7.4	J	ug/L	7.4	J	1.0	Yes	NV
Unknown-26	TIC	18	J	ug/L	18	J	1.0	Yes	NV
Unknown-17	TIC	6.3	J	ug/L	6.3	J	1.0	Yes	NV
Unknown-19	TIC	20	J	ug/L	20	J	1.0	Yes	NV
Unknown-21	TIC	14	J	ug/L	14	J	1.0	Yes	NV
Unknown-11	TIC	14	J	ug/L	14	J	1.0	Yes	NV
Unknown-14	TIC	25	J	ug/L	25	J	1.0	Yes	NV
Unknown-05	TIC	49	J	ug/L	49	J	1.0	Yes	NV
Unknown-30	TIC	39	J	ug/L	39	J	1.0	Yes	NV
6-Octadecenoic acid	TIC	7.3	NJ	ug/L	7.3	NJ	1.0	Yes	NV
Unknown-13	TIC	12	J	ug/L	12	J	1.0	Yes	NV
Unknown-23	TIC	8.3	J	ug/L	8.3	J	1.0	Yes	NV
Unknown-07	TIC	7.2	J	ug/L	7.2	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8P7	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-08B-1116	pH:	8	Sample Date:	11/30/2016	Sample Time:	11:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.48		ug/L	0.48	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P7	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-08B-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 11:04:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.20	J	ug/L	0.20	J	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.3		ug/L	5.3		1.0	Yes	S3VEM
Carbon disulfide	Target	0.35	J	ug/L	0.35	J	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.38	J	ug/L	0.38	J	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	2.2		ug/L	2.2		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	4.4		ug/L	4.4		1.0	Yes	S3VEM
Trichloroethene	Target	3.1		ug/L	3.1		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.28	J	ug/L	0.28	J	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-03	TIC	0.76	J	ug/L	0.76	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-02	TIC	7.5	J	ug/L	7.5	J	1.0	Yes	NV
Unknown-04	TIC	0.60	J	ug/L	0.60	J	1.0	Yes	NV
Unknown-07	TIC	1.1	J	ug/L	1.1	J	1.0	Yes	NV
Tetrasiloxane, decamethyl-	TIC	7.4	NJ	ug/L	7.4	NJ	1.0	Yes	NV
Unknown-01	TIC	3.4	J	ug/L	3.4	J	1.0	Yes	NV
Unknown-09	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Unknown-08	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV
Unknown-06	TIC	1.9	J	ug/L	1.9	J	1.0	Yes	NV
Unknown-05	TIC	0.59	J	ug/L	0.59	J	1.0	Yes	NV
Cyclotrisiloxane, hexamethyl-	TIC	1.2	NJ	ug/L	1.2	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI	
Sample Number: YA8P8	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2	
Sample Location: JWMW-08C-1116	pH: 2	Sample Date: 11/30/2016	Sample Time: 09:45:00	
% Moisture :		% Solids :		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.17	J	ug/L	0.17	J	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.72		ug/L	0.72		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.52		ug/L	0.52		1.0	Yes	S3VEM
1,2-Dichloroethane	Target	8.0		ug/L	8.0		1.0	Yes	S3VEM
Trichloroethene	Target	1.4		ug/L	1.4		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.33	J	ug/L	0.33	J	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclotrisiloxane, hexamethyl-	TIC	0.71	NJ	ug/L	0.71	NJ	1.0	Yes	NV
Unknown-02	TIC	1.4	J	ug/L	1.4	J	1.0	Yes	NV
Unknown-04	TIC	0.82	J	ug/L	0.82	J	1.0	Yes	NV
Unknown-09	TIC	1.9	J	ug/L	1.9	J	1.0	Yes	NV
Unknown-08	TIC	0.58	J	ug/L	0.58	J	1.0	Yes	NV
Tetrasiloxane, decamethyl-	TIC	2.4	NJ	ug/L	2.4	NJ	1.0	Yes	NV
Unknown-07	TIC	1.6	J	ug/L	1.6	J	1.0	Yes	NV
Unknown-01	TIC	4.0	J	ug/L	4.0	J	1.0	Yes	NV
Unknown-05	TIC	0.74	J	ug/L	0.74	J	1.0	Yes	NV
Unknown-03	TIC	1.1	J	ug/L	1.1	J	1.0	Yes	NV
Unknown-06	TIC	0.57	J	ug/L	0.57	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P8	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-08C-1116	pH: 8	Sample Date: 11/30/2016	Sample Time: 09:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.63	J	ug/L	0.63	J	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Unknown-22	TIC	4.3	J	ug/L	4.3	J	1.0	Yes	NV
Unknown-06	TIC	9.5	J	ug/L	9.5	J	1.0	Yes	NV
Unknown-18	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV
9-Octadecenoic acid, (E)-	TIC	4.2	NJ	ug/L	4.2	NJ	1.0	Yes	NV
Unknown-26	TIC	5.3	J	ug/L	5.3	J	1.0	Yes	NV
Unknown-23	TIC	2.7	J	ug/L	2.7	J	1.0	Yes	NV
Unknown-24	TIC	4.2	J	ug/L	4.2	J	1.0	Yes	NV
Unknown-07	TIC	4.4	J	ug/L	4.4	J	1.0	Yes	NV
Unknown-17	TIC	3.6	J	ug/L	3.6	J	1.0	Yes	NV
Unknown-19	TIC	1.9	J	ug/L	1.9	J	1.0	Yes	NV
Unknown-09	TIC	4.6	J	ug/L	4.6	J	1.0	Yes	NV
Unknown-02	TIC	3.6	J	ug/L	3.6	J	1.0	Yes	NV
Unknown-05	TIC	4.8	J	ug/L	4.8	J	1.0	Yes	NV
Unknown-15	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV
Unknown-08	TIC	2.5	J	ug/L	2.5	J	1.0	Yes	NV
Unknown-20	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV
Unknown-03	TIC	6.5	J	ug/L	6.5	J	1.0	Yes	NV
Unknown-10	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Unknown-12	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Unknown-21	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV
Unknown-16	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV
Unknown-04	TIC	4.0	J	ug/L	4.0	J	1.0	Yes	NV
Unknown-13	TIC	2.4	J	ug/L	2.4	J	1.0	Yes	NV
Unknown-11	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV
Unknown-14	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Unknown-27	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV
Unknown-01	TIC	7.1	J	ug/L	7.1	J	1.0	Yes	NV
Unknown-25	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV
6-Octadecenoic acid	TIC	3.0	NJ	ug/L	3.0	NJ	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8P8	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-08C-1116	pH:	8	Sample Date:	11/30/2016	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.53		ug/L	0.53	B	1.0	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8P9	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-09A-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	34		ug/L	34	DB	10.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P9	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-09A-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 12:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	24		ug/L	24		1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Octadec-9-enoic acid	TIC	2.0	NJ	ug/L	2.0	NJ	1.0	Yes	NV
6-Octadecenoic acid	TIC	2.6	NJ	ug/L	2.6	NJ	1.0	Yes	NV
Unknown-01	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-2-methyl-	TIC	2.5	NJ	ug/L	2.5	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8P9	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-09A-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 12:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Chloromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Vinyl chloride	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Bromomethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Chloroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Trichlorofluoromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,1-Dichloroethene	Target	35		ug/L	35	D	50.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Acetone	Target	250	U	ug/L	250	U	50.0	Yes	S3VEM
Carbon disulfide	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Methyl acetate	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Methylene chloride	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	79		ug/L	79	D	50.0	Yes	S3VEM
Methyl tert-butyl ether	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,1-Dichloroethane	Target	20	J	ug/L	20	J D	50.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	3400		ug/L	3400	D	500.0	Yes	S3VEM
2-Butanone	Target	250	U	ug/L	250	U	50.0	Yes	S3VEM
Bromochloromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Chloroform	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Cyclohexane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Carbon tetrachloride	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Benzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,2-Dichloroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Trichloroethene	Target	44		ug/L	44	D	50.0	Yes	S3VEM
Methylcyclohexane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,2-Dichloropropane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Bromodichloromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	250	U	ug/L	250	U	50.0	Yes	S3VEM
Toluene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Tetrachloroethene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
2-Hexanone	Target	250	U	ug/L	250	U	50.0	Yes	S3VEM
Dibromochloromethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,2-Dibromoethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Chlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Ethylbenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
o-Xylene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
m, p-Xylene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Styrene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Bromoform	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
Isopropylbenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	25	U	ug/L	25	U	50.0	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8P9	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09A-1116	pH:	7	Sample Date:	11/28/2016	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q0	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-09B-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 11:08:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.9	U	ug/L	1.9	U	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Propanoic acid, 2-methyl-	TIC	17	NJ	ug/L	17	NJ	1.0	Yes	NV
Unknown-15	TIC	1.9	J	ug/L	1.9	J	1.0	Yes	NV
Unknown-11	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV
Unknown-07	TIC	3.6	J	ug/L	3.6	J	1.0	Yes	NV
Pyridine, 3-methyl-	TIC	2.6	NJ	ug/L	2.6	NJ	1.0	Yes	NV
Benzoic acid	TIC	4.0	NJ	ug/L	4.0	NJ	1.0	Yes	NV
Butanoic acid	TIC	37	NJ	ug/L	37	NJ	1.0	Yes	NV
Unknown-03	TIC	59	J	ug/L	59	J	1.0	Yes	NV
Indole	TIC	14	NJ	ug/L	14	NJ	1.0	Yes	NV
Propiconazole	TIC	2.2	NJ	ug/L	2.2	NJ	1.0	Yes	NV
Unknown-01	TIC	9.2	J	ug/L	9.2	J	1.0	Yes	NV
Unknown-05	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV
Ethanol, 2-[2-(2-butoxyethoxy)ethoxy]-	TIC	4.0	NJ	ug/L	4.0	NJ	1.0	Yes	NV
Unknown-13	TIC	6.2	J	ug/L	6.2	J	1.0	Yes	NV
Unknown-12	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV
Unknown-02	TIC	160	J	ug/L	160	J	1.0	Yes	NV
6-Octadecenoic acid	TIC	7.8	NJ	ug/L	7.8	NJ	1.0	Yes	NV
Unknown-10	TIC	7.6	J	ug/L	7.6	J	1.0	Yes	NV
Unknown-04	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV
Propanoic acid, 3-(methylthio)-	TIC	33	NJ	ug/L	33	NJ	1.0	Yes	NV
Unknown-08	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV
Oleic Acid	TIC	7.6	NJ	ug/L	7.6	NJ	1.0	Yes	NV
Unknown-14	TIC	7.4	J	ug/L	7.4	J	1.0	Yes	NV
2(3H)-Benzothiazolone	TIC	1.9	NJ	ug/L	1.9	NJ	1.0	Yes	NV
Unknown-09	TIC	6.6	J	ug/L	6.6	J	1.0	Yes	NV
Unknown-06	TIC	2.6	J	ug/L	2.6	J	1.0	Yes	NV
Benzeneacetic acid	TIC	110	NJ	ug/L	110	NJ	1.0	Yes	NV
Formamide, N-phenyl-	TIC	2.1	NJ	ug/L	2.1	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q0	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-09B-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 11:08:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.35	J	ug/L	0.35	J	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.1		ug/L	5.1		1.0	Yes	S3VEM
Carbon disulfide	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.43	J	ug/L	0.43	J	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.17	J	ug/L	0.17	J	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	7.9		ug/L	7.9		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	4.1		ug/L	4.1		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-05	TIC	2.7	J	ug/L	2.7	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Furan, 2-methyl-	TIC	0.54	NJ	ug/L	0.54	NJ	1.0	Yes	NV
Unknown-02	TIC	0.66	J	ug/L	0.66	J	1.0	Yes	NV
Methyltris(trimethylsiloxy)silane	TIC	3.8	NJ	ug/L	3.8	NJ	1.0	Yes	NV
Unknown-01	TIC	2.4	J	ug/L	2.4	J	1.0	Yes	NV
Cyclotrisiloxane, hexamethyl-	TIC	1.2	NJ	ug/L	1.2	NJ	1.0	Yes	NV
Unknown-06	TIC	0.68	J	ug/L	0.68	J	1.0	Yes	NV
Unknown-04	TIC	1.7	J	ug/L	1.7	J	1.0	Yes	NV
Unknown-03	TIC	0.68	J	ug/L	0.68	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number:	YA8Q0	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09B-1116	pH:	7	Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q0	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-09B-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.51	U	ug/L	0.51	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q1	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-09C-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 10:13:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.31	J	ug/L	0.31	J	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.23	J	ug/L	0.23	J	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	8.3		ug/L	8.3		1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	1.7		ug/L	1.7		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.16	J	ug/L	0.16	J	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	11		ug/L	11		1.0	Yes	S3VEM
Trichloroethene	Target	0.61		ug/L	0.61		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-02	TIC	5.2	J	ug/L	5.2	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.22	J	ug/L	0.22	J	1.0	Yes	S3VEM
Unknown-03	TIC	1.3	J	ug/L	1.3	J	1.0	Yes	NV
Unknown-04	TIC	4.1	J	ug/L	4.1	J	1.0	Yes	NV
Unknown-01	TIC	1.8	J	ug/L	1.8	J	1.0	Yes	NV
Unknown-07	TIC	0.99	J	ug/L	0.99	J	1.0	Yes	NV
Unknown-05	TIC	1.2	J	ug/L	1.2	J	1.0	Yes	NV
Unknown-06	TIC	3.3	J	ug/L	3.3	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q1	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-09C-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 10:13:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.62	J-	ug/L	0.62	J	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
6-Octadecenoic acid	TIC	4.8	NJ	ug/L	4.8	NJ	1.0	Yes	NV
Unknown-01	TIC	15	J	ug/L	15	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q1	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09C-1116	pH:	7	Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q1	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-09C-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.64	U	ug/L	0.64	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number:	YA8Q2	Method:	Aroclors	Matrix:	Water	MA Number:	
Sample Location:	JWMW-10-1116	pH:	7	Sample Date:	11/28/2016	Sample Time:	09:14:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1221	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1232	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1242	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1248	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1254	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1260	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1262	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM
Aroclor-1268	Target	0.95	U	ug/L	0.95	U	1.0	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q2	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-10-1116	pH:	8	Sample Date:	11/28/2016	Sample Time:	09:14:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.19	JB	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q2	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-10-1116	pH: 8	Sample Date: 11/28/2016	Sample Time: 09:14:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.9	UJ	ug/L	1.9	U	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Oleic Acid	TIC	2.3	NJ	ug/L	2.3	NJ	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q2	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-10-1116	pH: 2	Sample Date: 11/28/2016	Sample Time: 09:14:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S3VEM
2-Butanone	Target	5.0	UJ	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.96		ug/L	0.96		1.0	Yes	S3VEM
Trichloroethene	Target	0.32	J	ug/L	0.32	J	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-01	TIC	0.96	J	ug/L	0.96	J	1.0	Yes	NV
Unknown-02	TIC	0.51	J	ug/L	0.51	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-04	TIC	0.95	J	ug/L	0.95	J	1.0	Yes	NV
Unknown-03	TIC	0.92	J	ug/L	0.92	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q4	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-11A-1116	pH: 8	Sample Date: 11/29/2016	Sample Time: 12:48:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.8		ug/L	4.8		1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Octadec-9-enoic acid	TIC	3.3	NJ	ug/L	3.3	NJ	1.0	Yes	NV
Unknown-03	TIC	3.3	J	ug/L	3.3	J	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-2-methyl-	TIC	3.7	NJ	ug/L	3.7	NJ	1.0	Yes	NV
Unknown-01	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV
Unknown-02	TIC	3.1	J	ug/L	3.1	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q4	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-11A-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 12:48:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.40	J	ug/L	0.40	J	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	1.8		ug/L	1.8		1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	2.3		ug/L	2.3		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.45	J	ug/L	0.45	J	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	72		ug/L	72	D	10.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.62		ug/L	0.62		1.0	Yes	S3VEM
Trichloroethene	Target	21		ug/L	21	D	10.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-01	TIC	1.1	J	ug/L	1.1	J	1.0	Yes	NV
Unknown-02	TIC	1.4	J	ug/L	1.4	J	1.0	Yes	NV
Unknown-03	TIC	1.3	J	ug/L	1.3	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q4	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-11A-1116	pH:	8	Sample Date:	11/29/2016	Sample Time:	12:48:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	3.6		ug/L	3.6	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q5	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-11B-1116	pH: 8	Sample Date: 11/29/2016	Sample Time: 11:03:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	41		ug/L	41	D	2.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Octadec-9-enoic acid	TIC	2.1	NJ	ug/L	2.1	NJ	1.0	Yes	NV
Unknown-01	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q5	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-11B-1116	pH:	8	Sample Date:	11/29/2016	Sample Time:	11:03:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	43		ug/L	43	DB	20.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q5	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-11B-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 11:03:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethene	Target	17		ug/L	17	D	20.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	38		ug/L	38	D	20.0	Yes	S3VEM
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethane	Target	8.3	J	ug/L	8.3	J D	20.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	1600		ug/L	1600	D	200.0	Yes	S3VEM
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Benzene	Target	2.8	J	ug/L	2.8	J D	20.0	Yes	S3VEM
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichloroethene	Target	3.6	J	ug/L	3.6	J D	20.0	Yes	S3VEM
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Toluene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q6	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-911B-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 11:13:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Vinyl chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromomethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichlorofluoromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethene	Target	17		ug/L	17	D	20.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Acetone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Carbon disulfide	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methyl acetate	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Methylene chloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	39		ug/L	39	D	20.0	Yes	S3VEM
Methyl tert-butyl ether	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1-Dichloroethane	Target	8.2	J	ug/L	8.2	J D	20.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	1600		ug/L	1600	D	200.0	Yes	S3VEM
2-Butanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Bromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chloroform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Cyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Carbon tetrachloride	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Benzene	Target	2.7	J	ug/L	2.7	J D	20.0	Yes	S3VEM
1,2-Dichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Trichloroethene	Target	2.8	J	ug/L	2.8	J D	20.0	Yes	S3VEM
Methylcyclohexane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromodichloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Toluene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Tetrachloroethene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
2-Hexanone	Target	100	U	ug/L	100	U	20.0	Yes	S3VEM
Dibromochloromethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromoethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Chlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Ethylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
o-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
m, p-Xylene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Styrene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Bromoform	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
Isopropylbenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	10	U	ug/L	10	U	20.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q6	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-911B-1116	pH: 8	Sample Date: 11/29/2016	Sample Time: 11:13:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	30		ug/L	30	D	2.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	UJ	ug/L	4.8	U	1.0	Yes	S3VEM
N,N'-Dibenzylidene-3,3'-dichlorobenzidin	TIC	12	NJ D	ug/L	12	NJ D	2.0	Yes	NV
Unknown-01	TIC	2.7	J	ug/L	2.7	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q6	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-911B-1116	pH:	8	Sample Date:	11/29/2016	Sample Time:	11:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	44		ug/L	44	DB	10.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI	
Sample Number: YA8Q7	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2	
Sample Location: JWMW-11C-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 09:27:00	
% Moisture :		% Solids :		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.18	J	ug/L	0.18	J	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.56		ug/L	0.56		1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	3.5		ug/L	3.5		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.30	J	ug/L	0.30	J	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	59		ug/L	59	D	10.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.31	J	ug/L	0.31	J	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	1.7		ug/L	1.7		1.0	Yes	S3VEM
Trichloroethene	Target	5.9		ug/L	5.9		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-01	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q7	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-11C-1116	pH: 8	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.5	J	ug/L	1.5	J	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Oleic Acid	TIC	2.7	NJ	ug/L	2.7	NJ	1.0	Yes	NV
Unknown-03	TIC	3.4	J	ug/L	3.4	J	1.0	Yes	NV
Unknown-01	TIC	2.6	J	ug/L	2.6	J	1.0	Yes	NV
Unknown-04	TIC	4.6	J	ug/L	4.6	J	1.0	Yes	NV
Unknown-02	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI
Sample Number:	YA8Q7	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-11C-1116	pH:	8	Sample Date:	11/29/2016	Sample Time:	09:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.2		ug/L	2.2	B	1.0	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N3	Lab Code:	EQI		
Sample Number:	YA8Q8	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2		
Sample Location:	JWMW-12-1116	pH:	8	Sample Date:	11/29/2016	Sample Time:	08:11:00		
% Moisture :				% Solids :					

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.6		ug/L	2.6	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI	
Sample Number: YA8Q8	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2	
Sample Location: JWMW-12-1116	pH: 2	Sample Date: 11/29/2016	Sample Time: 08:11:00	
% Moisture :		% Solids :		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.64		ug/L	0.64		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.48	J	ug/L	0.48	J	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	12		ug/L	12		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	1.8		ug/L	1.8		1.0	Yes	S3VEM
Trichloroethene	Target	2.1		ug/L	2.1		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-01	TIC	0.86	J	ug/L	0.86	J	1.0	Yes	NV
Unknown-02	TIC	0.57	J	ug/L	0.57	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N3	Lab Code: EQI

Sample Number: YA8Q8	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-12-1116	pH: 8	Sample Date: 11/29/2016	Sample Time: 08:11:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.3		ug/L	2.3		1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	UJ	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 2, SFD-7-2 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106150
Date:	March 9, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B Webb Company
Site Account No.:	09 WR QB 00
Case No.:	46660
SDG No.:	YA8N7
Laboratory:	Shealy Environmental Services, Inc. (EQI)
Analysis:	CLP Trace Volatiles
Samples:	Eight Groundwater Samples
Collection Date:	December 1 and 2, 2016
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Frietas, CLP COR USEPA Region 9
Howard Pham, CLP PO USEPA Region 5

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46660
SDG No.: YA8N7
Site: Jervis B Webb Company
Laboratory: Shealy Environmental Services (EQI)
Analysis: CLP Trace Volatiles
Reviewer: Santiago Lee, ESAT
Date: March 9, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	None.
Trip Blanks (TB):	YA8Q3.
Background Samples (BG):	None.
Field Duplicates (D1):	YA8P3 and YA8P4.

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

Trichloroethene (TCE) results for samples YA8N9 and YA8P1 were reported incorrectly in the EXES Data Manager. The laboratory uploaded revised electronic data deliverable (EDD) to the SMO Portal on February 24, 2017; the corrected TCE results for YA8N9 (0.24 µg/L) and YA8P1 (200 µg/L) have been entered into the EXES Data Manager.

The preparation logbook pages for some solutions were missing from the data package. The laboratory provided the missing pages upon request on February 24, 2017. All standards and spiking solutions were analyzed before the expiration date.

No sample was designated for "Lab QC" on chain of custody records (COCs) and extra sample volume for matrix spike/matrix spike duplicate (MS/MSD) analysis was not provided (only three vials were collected for each sample). The MS/MSD analysis was not performed.

In addition to laboratory artifacts (retention times of 1.8, 6.2, 8.6, 13.3, and 14.5 minutes), tentatively identified compounds (TICs) were found in samples YA8N7 through YA8N9 and YA8P1 through YA8P4 (see attached Form 1Bs).

This report was prepared in accordance with the following documents:

- *Modified Analysis, Addition of Analyte 1,2,3-Trichloropropane,* MA 2446.2, November 4, 2016;
- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3, September 2015 and

- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, September 2016.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	GC/MS Instrument Performance Check	Yes	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	No	B
6	Laboratory Blanks	Yes	
7	Field/Equipment/Trip Blanks	Yes	
8	Deuterated Monitoring Compound (DMC)	No	C
9	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Yes	
10	Internal Standard	Yes	
11	Compound Identification	Yes	
12	Compound Quantitation and Reported CRQL	Yes	A, D
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	Yes	
15	Overall Assessment of Data	Yes	

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. Results for the following analyte are qualified as estimated due to a large percent difference (%D) in a continuing calibration verification (CCV) and are flagged "UJ."

- Styrene in all samples, trip blank YA8Q3, and method blank VBLKQH.

The %D of +26.3% reported for styrene in the December 7, 2016 06:39 CCV exceeds the ±25.0% validation criterion for closing CCVs.

C. Results for the following analytes are qualified as estimated due to high deuterated monitoring compound (DMC) recoveries and are flagged "J+."

{Chloroethane-d5}
- Chloromethane in samples YA8N7 and YA8N9.

{1,1-Dichloroethene-d2}
- 1,1-Dichloroethene, trans-1,2-dichloroethene, and cis-1,2-dichloroethene in sample YA8P1.

DMC recoveries for the qualifications listed above are shown below

Sample	DMC	% Recovery	QC Limit
YA8N7	Chloroethane-d5	132	40-130
YA8N9	Chloroethane-d5	138	40-130

Sample	DMC	% Recovery	QC Limit
YA8P1	1,1-Dichloroethene-d2	143	60-125

For DMC recoveries that exceed QC limits, only detected results for associated analytes are qualified; qualified results may be biased high. The samples listed above were not reanalyzed.

The recovery for DMC vinyl chloride-d3 exceed QC limit of 40-130% in sample YA8N9 (135%), indicating potential high bias in detected results; qualification is not necessary because the associated target analyte is not detected.

D. Sample YA8P1 was reanalyzed at a 20-fold dilution to obtain result within the calibration range for trichloroethene. The result for trichloroethene in YA8P1 is reported from the diluted analysis.

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," September 2016 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8N7

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N7
Level: TRACE
Lab Sample ID: RL03006-001
Lab File ID: 81206D14
Date Received: 12/03/2016
Date Extracted:
Date Analyzed: 12/07/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.62	2.6	J
02					
03		Unknown-02	3.77	0.64	J
04					
05		~~Unknown-03~~	~~14.50~~	~~3.9~~	~~J~~
06					
07		SL, 12/21/17.			
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	3.8	J

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8N8

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N7
Level: TRACE
Lab Sample ID: RL03006-002
Lab File ID: 81206D15
Date Received: 12/03/2016
Date Extracted:
Date Analyzed: 12/07/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.62	3.4	J
02					
03					
04					
05					
06		Unknown-02	4.13	3.2	J
07		Unknown-03	5.31	1.2	J
08		~~Unknown-04~~	~~14.56~~	~~10~~	~~J~~
09					
10		SC, 2/21/17.			
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	19	J

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8N9

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N7
Level: TRACE
Lab Sample ID: RL03006-003
Lab File ID: 81206D16
Date Received: 12/03/2016
Date Extracted:
Date Analyzed: 12/07/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.42	1.7	J
02					
03		~~Unknown-02~~	~~13.29~~	~~0.52~~	~~J~~
04		~~Unknown-03~~	~~14.50~~	~~1.0~~	~~J~~
05					
06		SC, 2/21/17.			
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2.0	J

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P1

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N7
Level: TRACE
Lab Sample ID: RL03006-004
Lab File ID: 81206D22
Date Received: 12/03/2016
Date Extracted:
Date Analyzed: 12/07/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02		~~Unknown 01~~	~~14.50~~	~~7.5~~	~~J~~
03					
04		SL, 2/21/17.			
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	0.66	J

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P2

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N7
Level: TRACE
Lab Sample ID: RL03006-005
Lab File ID: 81206D17
Date Received: 12/03/2016
Date Extracted:
Date Analyzed: 12/07/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.60	1.2	J
02		Unknown-02	1.77	1.8	J
03					
04		Unknown-03	3.77	1.3	J
05					
06		Unknown-04	4.13	0.67	J
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	4.7	J

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P3

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N7
Level: TRACE
Lab Sample ID: RL03006-006
Lab File ID: 81206D18
Date Received: 12/03/2016
Date Extracted:
Date Analyzed: 12/07/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	4.7	J

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P4

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids:
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2446.2 SDG No.: YA8N7
Level: TRACE
Lab Sample ID: RL03006-007
Lab File ID: 81206D19
Date Received: 12/03/2016
Date Extracted:
Date Analyzed: 12/07/2016
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.77	1.2	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	4.7	J

[2]EPA-designated Registry Number.

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 2, SFD-7-2 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106150
Date:	March 9, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B. Webb Company
Site Account No.:	09 WR QB 00
Case No.:	46660
SDG No.:	YA8N7
Laboratory:	Shealy Environmental Services, Inc. (EQI)
Analysis:	CLP Semivolatiles
Samples:	Seven Groundwater Samples
Collection Date:	December 1 and 2, 2016
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Howard Pham, CLP PO USEPA Region 5

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46660
SDG No.: YA8N7
Site: Jervis B. Webb Company
Laboratory: Shealy Environmental Services, Inc. (EQI)
Analysis: CLP Semivolatiles
Reviewer: Santiago Lee, ESAT
Date: March 9, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	None.
Background Samples (BG):	None.
Field Duplicates (D1):	YA8P3 and YA8P4.

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

No sample was designated for "Lab QC" on chain of custody records (COCs) and extra sample volume for matrix spike/matrix spike duplicate (MS/MSD) analysis was not provided (only two bottles were collected for each sample). The MS/MSD analysis was not performed.

All standards and spiking solutions were analyzed before the expiration date.

Tentatively identified compounds (TICs) were found in samples YA8N8, YA8N9, and YA8P1 through YA8P4 (see attached Form 1Bs).

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3, September 2015; and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, September 2016.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	GC/MS Instrument Performance Check	Yes	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	Yes	
6	Laboratory Blank	Yes	
7	Field/Equipment Blanks	N/A	
8	Deuterated Monitoring Compound (DMC)	Yes	
9	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	N/A	
10	Laboratory Control Sample (LCS)	N/A	
11	GPC Performance Check	N/A	
12	Internal Standard	Yes	
13	Compound Identification	Yes	
14	Compound Quantitation and Reported CRQL	Yes	A
15	System Performance	Yes	
16	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable.

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," August 2014 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation Limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8N8

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N7
Level: LOW
Lab Sample ID: RL03006-002
Lab File ID: 12122205
Date Received: 12/03/2016
Date Extracted: 12/08/2016
Date Analyzed: 12/22/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 7 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	593-39-5	6-Octadecenoic acid, (Z)-	10.22	3.2	NJ
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8N9

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N7
Level: LOW
Lab Sample ID: RL03006-003
Lab File ID: 12122206
Date Received: 12/03/2016
Date Extracted: 12/08/2016
Date Analyzed: 12/22/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 7 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.95	2.3	J
02		Unknown-02	5.51	13	J
03		Unknown-03	5.56	2.2	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P1

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N7
Level: LOW
Lab Sample ID: RL03006-004
Lab File ID: 12122207
Date Received: 12/03/2016
Date Extracted: 12/08/2016
Date Analyzed: 12/22/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 7 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	1077-56-1	Benzenesulfonamide, N-ethyl-2-methyl-	8.60	6.9	NJ
02	80-39-7	Benzenesulfonamide, N-ethyl-4-methyl-	8.83	3.8	NJ
03		Unknown-01	11.70	2.0	J
04		Unknown-02	12.66	2.2	J
05					
06					
07					
08					
09					
10					
11					
12					
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23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P2

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N7
Level: LOW
Lab Sample ID: RL03006-005
Lab File ID: 12122208
Date Received: 12/03/2016
Date Extracted: 12/08/2016
Date Analyzed: 12/22/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 7 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.95	3.0	J
02		Unknown-02	5.52	38	J
03		Unknown-03	5.57	4.3	J
04	593-39-5	6-Octadecenoic acid, (Z)-	10.23	2.2	NJ
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P3

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N7
Level: LOW
Lab Sample ID: RL03006-006
Lab File ID: 12122209
Date Received: 12/03/2016
Date Extracted: 12/08/2016
Date Analyzed: 12/22/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 7 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.51	3.3	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YA8P4

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46660
Analytical Method: SVOA
Matrix: Water
Sample wt/vol: 1050 (g/mL) mL
% Solids:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N)
Purge Volume: (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: SDG No.: YA8N7
Level: LOW
Lab Sample ID: RL03006-007
Lab File ID: 12122210
Date Received: 12/03/2016
Date Extracted: 12/08/2016
Date Analyzed: 12/22/2016
Extract Volume: 1000 (uL)
Extraction Type: CLLE
Injection Volume: 1.0
pH: 7 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.51	2.7	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 2, SFD-7-2 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106150
Date:	March 9, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B. Webb Company
Site Account No.:	09 WR QB 00
Case No.:	46660
SDG No.:	YA8N7
Laboratory:	Shealy Environmental Services, Inc. (EQI)
Analysis:	CLP 1,4-Dioxane by Semivolatile Selective Ion Monitoring (SIM)
Samples:	Seven Groundwater Samples
Collection Date:	December 1 and 2, 2016
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Howard Pham, CLP PO USEPA Region 5

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46660
SDG No.: YA8N7
Site: Jervis B. Webb Company
Laboratory: Shealy Environmental Services, Inc. (EQI)
Analysis: CLP 1,4-Dioxane by Semivolatile Selective Ion Monitoring (SIM)
Reviewer: Santiago Lee, ESAT
Date: March 9, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	None.
Background Samples (BG):	None.
Field Duplicates (D1):	YA8P3 and YA8P4.

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

Matrix spike/matrix spike duplicate (MS/MSD) analysis was not required.

All standards and spiking solutions were analyzed before the expiration date.

This report was prepared in accordance with the following documents:
- *Modified Analysis, 1,4-Dioxane Analysis with Lower CRQL*, MA 2445.2, November 4, 2016;
- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3, September 2015; and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, September 2016.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	GC/MS Instrument Performance Check	N/A	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	Yes	
6	Laboratory Blank	Yes	B
7	Field/Equipment Blanks	N/A	
8	Deuterated Monitoring Compound (DMC)	Yes	
9	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	N/A	
10	Laboratory Control Sample (LCS)	Yes	
11	GPC Performance Check	N/A	
12	Internal Standard	Yes	
13	Compound Identification	Yes	
14	Compound Quantitation and Reported CRQL	Yes	A, C
15	System Performance	Yes	
16	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable.

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The following result is qualified as nondetected due to a method blank contamination and are flagged "U."

- 1,4-Dioxane in sample YA8P2.

1,4-Dioxane is present in method blank SBLK28 at 0.12 µg/L. Results that are less than or equal to the CRQL are qualified as non-detected at the CRQL.

C. Sample YA8P1 was re-analyzed at a 5.0-fold dilution to obtain result within the calibration range. The result for 1,4-dioxane in YA8P1 is reported from the diluted analysis.

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," August 2014 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation Limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Sample Summary Report

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	SBLK28	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.12	J	ug/L	0.12	J	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: SBLK54	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0	U	ug/L	2.0	U	1.0	Yes	S3VEM
Benzaldehyde	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Phenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2-Methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Acetophenone	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Hexachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Nitrobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Isophorone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Naphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Caprolactam	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Acenaphthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Dibenzofuran	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Diethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Fluorene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Atrazine	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Phenanthrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbazole	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Fluoranthene	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Chrysene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	10	U	ug/L	10	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI
Sample Number: SLCS28	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2445.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	0.29	JB	ug/L	0.29	JB	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI
Sample Number: VBLKQH	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.30	J	ug/L	0.30	J	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI
Sample Number: VBLKQT	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI
Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8N7	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-06A-1116	pH:	7	Sample Date:	12/02/2016	Sample Time:	04:21:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	5.6		ug/L	5.6	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N7	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-06A-1116	pH: 7	Sample Date: 12/02/2016	Sample Time: 04:21:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	7.1		ug/L	7.1		1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N7	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-06A-1116	pH: 2	Sample Date: 12/02/2016	Sample Time: 04:21:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.21	J+	ug/L	0.21	J	1.0	Yes	S3VEM
Vinyl chloride	Target	0.39	J	ug/L	0.39	J	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	2.1		ug/L	2.1		1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.6		ug/L	5.6		1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	3.1		ug/L	3.1		1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	2.1		ug/L	2.1		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.59		ug/L	0.59		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown Alkane-01	TIC	2.5	J	ug/L	2.5	J	1.0	Yes	NV
Unknown-02	TIC	0.64	J	ug/L	0.64	J	1.0	Yes	NV
Unknown-03	TIC	3.9	J	ug/L	3.9	J	1.0	No	NV
Unknown-01	TIC	2.6	J	ug/L	2.6	J	1.0	Yes	NV
Unknown Alkane-02	TIC	1.3	J	ug/L	1.3	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8N8	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-06B-1116	pH:	7	Sample Date:	12/02/2016	Sample Time:	03:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.86		ug/L	0.86	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N8	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-06B-1116	pH: 2	Sample Date: 12/02/2016	Sample Time: 03:30:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.57		ug/L	0.57		1.0	Yes	S3VEM
Vinyl chloride	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.58		ug/L	0.58		1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	12		ug/L	12		1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.61		ug/L	0.61		1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	3.0		ug/L	3.0		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	1.2		ug/L	1.2		1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VEM
Trichloroethene	Target	1.6		ug/L	1.6		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-01	TIC	3.4	J	ug/L	3.4	J	1.0	Yes	NV
Unknown-03	TIC	1.2	J	ug/L	1.2	J	1.0	Yes	NV
Unknown Alkane-02	TIC	1.7	J	ug/L	1.7	J	1.0	Yes	NV
Unknown Alkane-03	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Unknown-02	TIC	3.2	J	ug/L	3.2	J	1.0	Yes	NV
Unknown-04	TIC	10	J	ug/L	10	J	1.0	No	NV
Unknown Alkane-01	TIC	11	J	ug/L	11	J	1.0	Yes	NV
Unknown Alkane-04	TIC	3.5	J	ug/L	3.5	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N8	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-06B-1116	pH: 7	Sample Date: 12/02/2016	Sample Time: 03:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.2	J	ug/L	1.2	J	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
6-Octadecenoic acid, (Z)-	TIC	3.2	NJ	ug/L	3.2	NJ	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8N9	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-06C-1116	pH:	7	Sample Date:	12/02/2016	Sample Time:	02:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.57		ug/L	0.57	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N9	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-06C-1116	pH: 2	Sample Date: 12/02/2016	Sample Time: 02:45:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.40	J+	ug/L	0.40	J	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	3.9	J	ug/L	3.9	J	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.56		ug/L	0.56		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	7.5		ug/L	7.5		1.0	Yes	S3VEM
Trichloroethene	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-02	TIC	0.52	J	ug/L	0.52	J	1.0	No	NV
Unknown-03	TIC	1.0	J	ug/L	1.0	J	1.0	No	NV
Unknown Alkane-01	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-01	TIC	1.7	J	ug/L	1.7	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N9	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-06C-1116	pH: 7	Sample Date: 12/02/2016	Sample Time: 02:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.64	J	ug/L	0.64	J	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Unknown-03	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV
Unknown-02	TIC	13	J	ug/L	13	J	1.0	Yes	NV
Unknown-01	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P1	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-07A-1116	pH: 2	Sample Date: 12/02/2016	Sample Time: 01:23:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.17	J	ug/L	0.17	J	1.0	Yes	S3VEM
Vinyl chloride	Target	1.0		ug/L	1.0		1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	10	J+	ug/L	10		1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	1.3	J+	ug/L	1.3		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	4.1		ug/L	4.1		1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	9.9	J+	ug/L	9.9		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	200		ug/L	200	D	20.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.16	J	ug/L	0.16	J	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-01	TIC	7.5	J	ug/L	7.5	J	1.0	No	NV
Unknown Alkane-01	TIC	0.66	J	ug/L	0.66	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P1	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-07A-1116	pH: 7	Sample Date: 12/02/2016	Sample Time: 01:23:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	17		ug/L	17		1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Unknown-01	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-4-methyl-	TIC	3.8	NJ	ug/L	3.8	NJ	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-2-methyl-	TIC	6.9	NJ	ug/L	6.9	NJ	1.0	Yes	NV
Unknown-02	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8P1	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-07A-1116	pH:	7	Sample Date:	12/02/2016	Sample Time:	01:23:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	12		ug/L	12	DB	5.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P2	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-07B-1116	pH: 7	Sample Date: 12/02/2016	Sample Time: 00:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.9	U	ug/L	1.9	U	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Unknown-03	TIC	4.3	J	ug/L	4.3	J	1.0	Yes	NV
6-Octadecenoic acid, (Z)-	TIC	2.2	NJ	ug/L	2.2	NJ	1.0	Yes	NV
Unknown-01	TIC	3.0	J	ug/L	3.0	J	1.0	Yes	NV
Unknown-02	TIC	38	J	ug/L	38	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8P2	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-07B-1116	pH:	7	Sample Date:	12/02/2016	Sample Time:	00:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.48	U	ug/L	0.36	JB	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P2	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-07B-1116	pH: 2	Sample Date: 12/02/2016	Sample Time: 00:27:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	7.6		ug/L	7.6		1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	5.5		ug/L	5.5		1.0	Yes	S3VEM
Trichloroethene	Target	0.23	J	ug/L	0.23	J	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown Alkane-02	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV
Unknown Alkane-01	TIC	2.5	J	ug/L	2.5	J	1.0	Yes	NV
Unknown-03	TIC	1.3	J	ug/L	1.3	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-01	TIC	1.2	J	ug/L	1.2	J	1.0	Yes	NV
Unknown-04	TIC	0.67	J	ug/L	0.67	J	1.0	Yes	NV
Unknown-02	TIC	1.8	J	ug/L	1.8	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI		
Sample Number:	YA8P3	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2		
Sample Location:	JWMW-07C-1116	pH:	7	Sample Date:	12/01/2016	Sample Time:	23:36:00		
% Moisture :				% Solids :					

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.71		ug/L	0.71	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P3	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-07C-1116	pH: 2	Sample Date: 12/01/2016	Sample Time: 23:36:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.23	J	ug/L	0.23	J	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	3.8	J	ug/L	3.8	J	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.62		ug/L	0.62		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	6.1		ug/L	6.1		1.0	Yes	S3VEM
Trichloroethene	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown Alkane-01	TIC	1.8	J	ug/L	1.8	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown Alkane-02	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P3	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-07C-1116	pH: 7	Sample Date: 12/01/2016	Sample Time: 23:36:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.82	J	ug/L	0.82	J	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Unknown-01	TIC	3.3	J	ug/L	3.3	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P4	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-97C-1116	pH: 2	Sample Date: 12/01/2016	Sample Time: 23:45:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	2.9	J	ug/L	2.9	J	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.60		ug/L	0.60		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	6.2		ug/L	6.2		1.0	Yes	S3VEM
Trichloroethene	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown Alkane-01	TIC	1.6	J	ug/L	1.6	J	1.0	Yes	NV
Unknown-01	TIC	1.2	J	ug/L	1.2	J	1.0	Yes	NV
Unknown Alkane-02	TIC	3.1	J	ug/L	3.1	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8P4	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-97C-1116	pH:	7	Sample Date:	12/01/2016	Sample Time:	23:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.68		ug/L	0.68	B	1.0	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P4	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-97C-1116	pH: 7	Sample Date: 12/01/2016	Sample Time: 23:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.79	J	ug/L	0.79	J	1.0	Yes	S3VEM
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VEM
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VEM
Unknown-01	TIC	2.7	J	ug/L	2.7	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8Q3	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JW-RL04-1116	pH: 2	Sample Date: 12/01/2016	Sample Time: 23:00:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Sample Summary Report

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	SBLK28	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.12	J	ug/L	0.12	J	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI
Sample Number: SBLK54	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0	U	ug/L	2.0	U	1.0	Yes	S3VE
Benzaldehyde	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Phenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
2-Chlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Acetophenone	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Hexachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Nitrobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Isophorone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Nitrophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Naphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Chloroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Caprolactam	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2-Nitroaniline	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dimethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
3-Nitroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Acenaphthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
4-Nitrophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Dibenzofuran	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Diethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Fluorene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Nitroaniline	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Atrazine	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Pentachlorophenol	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Phenanthrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbazole	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Fluoranthene	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Chrysene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	10	U	ug/L	10	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI
Sample Number: SLCS28	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2445.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	0.29	JB	ug/L	0.29	JB	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI
Sample Number: VBLKQH	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.30	J	ug/L	0.30	J	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI
Sample Number: VBLKQT	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI
Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N7	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-06A-1116	pH: 7	Sample Date: 12/02/2016	Sample Time: 04:21:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	7.1		ug/L	7.1		1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N7	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-06A-1116	pH: 2	Sample Date: 12/02/2016	Sample Time: 04:21:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.21	J+	ug/L	0.21	J	1.0	Yes	S3VE
Vinyl chloride	Target	0.39	J	ug/L	0.39	J	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	2.1		ug/L	2.1		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.6		ug/L	5.6		1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	3.1		ug/L	3.1		1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	2.1		ug/L	2.1		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.59		ug/L	0.59		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown Alkane-01	TIC	2.5	J	ug/L	2.5	J	1.0	Yes	NV
Unknown-02	TIC	0.64	J	ug/L	0.64	J	1.0	Yes	NV
Unknown-03	TIC	3.9	J	ug/L	3.9	J	1.0	Yes	NV
Unknown-01	TIC	2.6	J	ug/L	2.6	J	1.0	Yes	NV
Unknown Alkane-02	TIC	1.3	J	ug/L	1.3	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8N7	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-06A-1116	pH:	7	Sample Date:	12/02/2016	Sample Time:	04:21:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	5.6		ug/L	5.6	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N8	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-06B-1116	pH: 7	Sample Date: 12/02/2016	Sample Time: 03:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.2	J	ug/L	1.2	J	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
6-Octadecenoic acid, (Z)-	TIC	3.2	NJ	ug/L	3.2	NJ	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8N8	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-06B-1116	pH:	7	Sample Date:	12/02/2016	Sample Time:	03:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.86		ug/L	0.86	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N8	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-06B-1116	pH: 2	Sample Date: 12/02/2016	Sample Time: 03:30:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.57		ug/L	0.57		1.0	Yes	S3VE
Vinyl chloride	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.58		ug/L	0.58		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	12		ug/L	12		1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.61		ug/L	0.61		1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	3.0		ug/L	3.0		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	1.2		ug/L	1.2		1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VE
Trichloroethene	Target	1.6		ug/L	1.6		1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-01	TIC	3.4	J	ug/L	3.4	J	1.0	Yes	NV
Unknown-03	TIC	1.2	J	ug/L	1.2	J	1.0	Yes	NV
Unknown Alkane-02	TIC	1.7	J	ug/L	1.7	J	1.0	Yes	NV
Unknown Alkane-03	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
Unknown-02	TIC	3.2	J	ug/L	3.2	J	1.0	Yes	NV
Unknown-04	TIC	10	J	ug/L	10	J	1.0	Yes	NV
Unknown Alkane-01	TIC	11	J	ug/L	11	J	1.0	Yes	NV
Unknown Alkane-04	TIC	3.5	J	ug/L	3.5	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N9	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-06C-1116	pH: 7	Sample Date: 12/02/2016	Sample Time: 02:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.64	J	ug/L	0.64	J	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-03	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV
Unknown-02	TIC	13	J	ug/L	13	J	1.0	Yes	NV
Unknown-01	TIC	2.3	J	ug/L	2.3	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8N9	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-06C-1116	pH:	7	Sample Date:	12/02/2016	Sample Time:	02:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.57		ug/L	0.57	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8N9	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-06C-1116	pH: 2	Sample Date: 12/02/2016	Sample Time: 02:45:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.40	J+	ug/L	0.40	J	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	3.9	J	ug/L	3.9	J	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.56		ug/L	0.56		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	7.5		ug/L	7.5		1.0	Yes	S3VE
Trichloroethene	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-02	TIC	0.52	J	ug/L	0.52	J	1.0	Yes	NV
Unknown-03	TIC	1.0	J	ug/L	1.0	J	1.0	Yes	NV
Unknown Alkane-01	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-01	TIC	1.7	J	ug/L	1.7	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P1	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-07A-1116	pH: 7	Sample Date: 12/02/2016	Sample Time: 01:23:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	17		ug/L	17		1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-01	TIC	2.0	J	ug/L	2.0	J	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-4-methyl-	TIC	3.8	NJ	ug/L	3.8	NJ	1.0	Yes	NV
Benzenesulfonamide, N-ethyl-2-methyl-	TIC	6.9	NJ	ug/L	6.9	NJ	1.0	Yes	NV
Unknown-02	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8P1	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-07A-1116	pH:	7	Sample Date:	12/02/2016	Sample Time:	01:23:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	12	J+	ug/L	12	DB	5.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P1	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-07A-1116	pH: 2	Sample Date: 12/02/2016	Sample Time: 01:23:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.17	J	ug/L	0.17	J	1.0	Yes	S3VE
Vinyl chloride	Target	1.0		ug/L	1.0		1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	10	J+	ug/L	10		1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	1.3	J+	ug/L	1.3		1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	4.1		ug/L	4.1		1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	9.9	J+	ug/L	9.9		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	200		ug/L	200	D	20.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.16	J	ug/L	0.16	J	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-01	TIC	7.5	J	ug/L	7.5	J	1.0	Yes	NV
Unknown Alkane-01	TIC	0.66	J	ug/L	0.66	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P2	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-07B-1116	pH: 7	Sample Date: 12/02/2016	Sample Time: 00:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.9	U	ug/L	1.9	U	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-03	TIC	4.3	J	ug/L	4.3	J	1.0	Yes	NV
6-Octadecenoic acid, (Z)-	TIC	2.2	NJ	ug/L	2.2	NJ	1.0	Yes	NV
Unknown-01	TIC	3.0	J	ug/L	3.0	J	1.0	Yes	NV
Unknown-02	TIC	38	J	ug/L	38	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8P2	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-07B-1116	pH:	7	Sample Date:	12/02/2016	Sample Time:	00:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.48	U	ug/L	0.36	JB	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P2	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-07B-1116	pH: 2	Sample Date: 12/02/2016	Sample Time: 00:27:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	7.6		ug/L	7.6		1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.5		ug/L	5.5		1.0	Yes	S3VE
Trichloroethene	Target	0.23	J	ug/L	0.23	J	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown Alkane-02	TIC	2.2	J	ug/L	2.2	J	1.0	Yes	NV
Unknown Alkane-01	TIC	2.5	J	ug/L	2.5	J	1.0	Yes	NV
Unknown-03	TIC	1.3	J	ug/L	1.3	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown-01	TIC	1.2	J	ug/L	1.2	J	1.0	Yes	NV
Unknown-04	TIC	0.67	J	ug/L	0.67	J	1.0	Yes	NV
Unknown-02	TIC	1.8	J	ug/L	1.8	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8P3	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-07C-1116	pH:	7	Sample Date:	12/01/2016	Sample Time:	23:36:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.71		ug/L	0.71	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P3	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-07C-1116	pH: 7	Sample Date: 12/01/2016	Sample Time: 23:36:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.82	J	ug/L	0.82	J	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-01	TIC	3.3	J	ug/L	3.3	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P3	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-07C-1116	pH: 2	Sample Date: 12/01/2016	Sample Time: 23:36:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.23	J	ug/L	0.23	J	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	3.8	J	ug/L	3.8	J	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.62		ug/L	0.62		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	6.1		ug/L	6.1		1.0	Yes	S3VE
Trichloroethene	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown Alkane-01	TIC	1.8	J	ug/L	1.8	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown Alkane-02	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P4	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: JWMW-97C-1116	pH: 7	Sample Date: 12/01/2016	Sample Time: 23:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.79	J	ug/L	0.79	J	1.0	Yes	S3VE
Benzaldehyde	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Bis(2-Chloroethyl) ether	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2-Chlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acetophenone	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
3-Methylphenol + 4-Methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitroso-di-n propylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachloroethane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Nitrobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Isophorone	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitrophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dimethylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-chloroethoxy)methane	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Naphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chloroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Hexachlorobutadiene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Caprolactam	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Chloro-3-methylphenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Methylnaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorocyclo-pentadiene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
2,4,6-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4,5-Trichlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,1'-Biphenyl	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Chloronaphthalene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2-Nitroaniline	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dimethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,6-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Acenaphthylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Acenaphthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4-Nitrophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Dibenzofuran	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,4-Dinitrotoluene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Diethylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluorene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Chlorophenyl-phenyl ether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Nitroaniline	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
4,6-Dinitro-2-methylphenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
N-Nitrosodiphenylamine	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
4-Bromophenyl-phenylether	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Hexachlorobenzene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Atrazine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pentachlorophenol	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Phenanthrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Carbazole	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Di-n-butylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Fluoranthene	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Butylbenzylphthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
3,3'-Dichlorobenzidine	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(a)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Chrysene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Bis(2-ethylhexyl)phthalate	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Di-n-octylphthalate	Target	9.5	U	ug/L	9.5	U	1.0	Yes	S3VE
Benzo(b)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(k)fluoranthene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Benzo(a)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Indeno(1,2,3-cd)pyrene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Dibenzo(a,h)anthracene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzo(g,h,i)perylene	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
2,3,4,6-Tetrachlorophenol	Target	4.8	U	ug/L	4.8	U	1.0	Yes	S3VE
Unknown-01	TIC	2.7	J	ug/L	2.7	J	1.0	Yes	NV

Case No:	46660	Contract:	EPW14035	SDG No:	YA8N7	Lab Code:	EQI
Sample Number:	YA8P4	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	2445.2
Sample Location:	JWMW-97C-1116	pH:	7	Sample Date:	12/01/2016	Sample Time:	23:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.68		ug/L	0.68	B	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8P4	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JWMW-97C-1116	pH: 2	Sample Date: 12/01/2016	Sample Time: 23:45:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	2.9	J	ug/L	2.9	J	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.60		ug/L	0.60		1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	6.2		ug/L	6.2		1.0	Yes	S3VE
Trichloroethene	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Unknown Alkane-01	TIC	1.6	J	ug/L	1.6	J	1.0	Yes	NV
Unknown-01	TIC	1.2	J	ug/L	1.2	J	1.0	Yes	NV
Unknown Alkane-02	TIC	3.1	J	ug/L	3.1	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: YA8N7	Lab Code: EQI

Sample Number: YA8Q3	Method: Trace Volatiles	Matrix: Water	MA Number: 2446.2
Sample Location: JW-RL04-1116	pH: 2	Sample Date: 12/01/2016	Sample Time: 23:00:00
% Moisture :		% Solids : 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VE

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 2, SFD-7-2 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106150
Date:	March 9, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B Webb Company
Site Account No.:	09 WR QB 00
Case No.:	46660
SDG No.:	MYA8N5
Laboratory:	Shealy Environmental Services, Inc. (EQI)
Analysis:	CLP Metals by ICP-AES and ICP-MS, Mercury by CVAA, and Cyanide
Samples:	20 Groundwater Samples
Collection Date:	November 28, 29, and 30, 2016 and December 2, 2016
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Howard Pham, CLP PO USEPA Region 5

CLP PO: [ ] FYI [X] Action

SAMPLING ISSUES: [X] Yes [ ] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report – **Tier 3**

Case No.: 46660
SDG No.: MYA8N5
Site: Jervis B Webb Company
Laboratory: Shealy Environmental Services, Inc. (EQI)
Analysis: CLP Metals by ICP-AES and ICP-MS, Mercury by CVAA, and Cyanide
Reviewer: Santiago Lee, ESAT
Date: March 9, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Inorganic Analytical Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in page 6 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	MYA8N4.
Background Samples (BG):	None.
Field Duplicates (D1):	MYA8Q5 and MYA8Q6
Field Duplicates (D2):	MYA8N0 and MYA8P7.

CLP PO Action

The laboratory analyzed the post digestion spike for barium with added concentration of two times the contract required quantitation limit (CRQL) instead of two times the sample concentration. See CLP SOW ISM02.3 (09/2015) Exhibit D Page D-25/ICP-MS Section 12.3.3.3.

Sampling Issues

1. Samples MYA8Q4 and MYA8Q8 were received by the laboratory with a cooler temperature of 6.9ºC, which is above the ≤ 6ºC sample preservation criterion (see Additional Comments).
2. Contamination above the CRQL was found for vanadium in equipment blank MYA8N4 (See Comment C).
3. Samples MYA8N5, MYA8P8, MYA8Q1, MYA8Q5, MYA8Q6, and MYA8Q7 were received with pH greater than two. No impact on sample results is anticipated since the laboratory adjusted the pH to less than two upon sample receipt.

Additional Comments

The samples were analyzed for Contract Laboratory Program (CLP) metals and cyanide. Aluminum, calcium, iron, magnesium, potassium, and sodium were analyzed by Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES). Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc were analyzed by Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS). Mercury was analyzed by Cold Vapor Atomic Absorption (CVAA). Cyanide was analyzed by spectrophotometry.

As noted in Sampling Issues above, samples MYA8Q4 and MYA8Q8 were not adequately maintained at ≤ 6ºC as specified in the SOW. Technical judgment indicates no adverse effect is expected on metal results; this is substantiated by the recommended preservation criteria for metals in Table 3-2 of EPA publication SW-846, Update V, Revision 5, July 2014 (preservation criteria for metals does not require chilling).

All standards and spiking solutions were analyzed before the expiration date.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)*, ISM02.3, September 2015 and
- *USEPA National Functional Guidelines for Inorganic Superfund Data Review*, September 2016.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration),* ISM02.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1.	Data Completeness	Yes	
2.	Preservation and Holding Times	Yes	
3.	ICP-MS Tune Analysis	Yes	
4.	Calibration	Yes	
	a. Initial	Yes	
	b. Initial and Continuing Calibration Verification	Yes	
5.	Laboratory Blanks	Yes	B
6.	Field/Equipment Blanks	No	C
7.	ICP Interference Check Sample (ICS)	Yes	
8.	Laboratory Control Sample (LCS)	Yes	
9.	Duplicate Sample Analysis	Yes	
10.	Spike Sample Analysis	No	D
11.	ICP Serial Dilution	No	E
12.	ICP-MS Internal Standards	Yes	
13.	Compound Quantitation	Yes	A, G
14.	Field Duplicate Sample Analysis	No	F
15.	Overall Assessment of Data	Yes	

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The following results are qualified as non-detected (U) due to low level initial calibration blank (ICB), continuing calibration blank (CCB), and equipment blank (EB) contamination.

- Arsenic and chromium in equipment blank MYA8N4 and preparation blank PBW010.
- Cadmium in samples MYA8N5, MYA8N7, MYA8N9, MYA8P1, MYA8P2, MYA8P6, MYA8P9, MYA8Q0, and MYA8Q8.
- Copper in sample MYA8Q1.
- Lead in samples MYA8N0, MYA8N5, MYA8P7, MYA8Q0, MYA8Q1, and MYA8Q5 through MYA8Q8; equipment blank MYA8N4; and preparation blank PBW010.
- Potassium in sample MYA8N9, equipment blank MYA8N4, and preparation blank PBW001.
- Sodium in equipment blank MYA8N4 and preparation blank PBW001.
- Thallium in samples MYA8N0, MYA8N5, MYA8N7 through MYA8N9, MYA8P1, MYA8P2, MYA8P6, MYA8P8, MYA8P9, MYA8Q1 through MYA8Q3, and MYA8Q5 through MYA8Q8 and preparation blank PBW010.

- Vanadium in samples MYA8Q6 and MYA8Q7 and preparation blank PBW010.

Analyte amounts greater than the MDL but less than the CRQL were reported in the calibration blanks and equipment blank at the concentrations presented below.

Analyte	Blank	Concentration, µg/L
Arsenic	CCB041/CCB042	0.28/0.45
Cadmium	CCB046/CCB047	0.042/0.080
Chromium	CCB046/CCB047/CCB048	0.070/0.11/0.069
Copper	MYA8N4 (EB)	1.6
Lead	CCB046/CCB047/CCB048	0.045/0.077/0.033
Potassium	CCB083	502
Sodium	CCB083/CCB084/CCB085/CCB086	1320/767/701/460
Thallium	ICB/CCB045/CCB046/CCB047/CCB048	0.11/0.12/0.16/0.17/0.15
Vanadium	CCB046/CCB047/CCB048	0.59/0.89/0.51

Sample results that are greater than or equal to the MDL but less than or equal to the CRQL are reported as non-detected (U) at the respective CRQL.

C. The following results are qualified as estimated and flagged "J+" due to an equipment blank (EB) contamination.

- Vanadium in samples MYA8N5, MYA8P9, MYA8Q0, MYA8Q1, and MYA8Q2.

Analyte amount greater than the CRQL was reported in the following equipment blank at the concentration presented below.

Analyte	Equipment Blank	Concentration, µg/L
Vanadium	MYA8N4 (collected 11/28/16)	10.2

Detected results for the analytes listed above are considered quantitatively uncertain and may be biased high. Equipment blanks were not collected on November 29 and 30, 2016 and December 2, 2016.

D. The following results are estimated and flagged "J-" or "UJ" because matrix spike recoveries are outside method QC limit.

- Barium and lead in all field samples.

Matrix spike recoveries for barium and lead in QC sample MYA8Q7S do not meet the 75-125% criterion for accuracy as presented below.

Analyte	% Recovery
Barium	26
Lead	45

Detected results for barium and lead are considered quantitatively uncertain and may be biased low. Where qualified results are nondetects, false negatives may exist.

The following post-digestion spike recovery was reported for lead in QC sample MYA8Q7A. Post-digestion spike recoveries do not reflect the entire sample preparation and analysis; the impact on reported results cannot be determined. Qualification is based on the matrix spike recovery only.

Analyte	Post-Digestion Spike, % Recovery
Lead	97

Since post-digestion spike recovery is acceptable, the unacceptable pre-digestion spike recovery may indicate poor laboratory technique or matrix effects which may interfere with the analysis.

A valid post-digestion spike for barium is not available (see CLP PO Action).

E. The following detected results are estimated and flagged "J" because serial dilution results are outside method QC limit.

- Iron, manganese, and nickel in all field samples.

Percent differences for serial dilution analysis of MYA8Q7L do not meet the 10% difference criterion for the analytes presented below.

Analyte	% Difference
Iron	12
Manganese	12
Nickel	20

Detected results for iron, manganese, and nickel are considered quantitatively uncertain. Chemical and physical interferences may exist due to sample matrix effects. Since results for the diluted sample are higher than the original, the reported results may be biased low.

F. Result for the following field duplicate pair does not meet the relative percent difference (RPD) criterion for precision as presented below.

Analyte	MYA8N0 (D2), µg/L	MYA8P7 (D2), µg/L	RPD	QC Limit
Iron	1880	1450	26	20

This uncertainty should be evaluated in the context of project data quality objectives to determine data usability.

G. The samples listed in the table below required dilution to obtain results within the calibration range for the indicated elements. Results for these elements are reported from the indicated dilutions and the CRQL adjusted accordingly.

Sample(s)	Dilution Factor	Associated Element(s)
MYA8N0, MYA8N5, MY8AN8, MYA8P7, MYA8Q5, MYA8Q6	10	Calcium, Sodium
MYA8Q7, MYA8Q8, MYA8P6	5.0	Calcium, Sodium
MYA8N9, MYA8P2, MYA8Q1	2.0	Sodium
MYA8N7, MYA8P9	10	Sodium
MYA8Q4, MYA8P8	5.0	Sodium
MYA8P1	20	Sodium
MYA8N5	2.0	Arsenic
MYA8N0, MYA8N7, MYA8P6, MYA8P7, MYA8P8, MYA8Q0, MYA8Q1, MYA8Q2, MYA8Q4	2.0	Manganese
MYA8N5, MYA8N8, MYA8P1, MYA8P9, MYA8Q5, MYA8Q6, MYA8Q7	5.0	Manganese

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Inorganic Superfund Data Review," August 2014 (Table 1, page 6).

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

Sample Summary Report

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI

Sample Number:	LCS001	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	394		ug/L	394		1	Yes	S3VE
Calcium	Target	9430		ug/L	9430		1	Yes	S3VE
Iron	Target	199		ug/L	199		1	Yes	S3VE
Magnesium	Target	9560		ug/L	9560		1	Yes	S3VE
Potassium	Target	10600		ug/L	10600		1	Yes	S3VE
Sodium	Target	10600		ug/L	10600		1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI
Sample Number: LCS010	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	3.9		ug/L	3.9		1	Yes	S3VE
Arsenic	Target	2.5		ug/L	2.5		1	Yes	S3VE
Barium	Target	18.9		ug/L	18.9		1	Yes	S3VE
Beryllium	Target	2.4		ug/L	2.4		1	Yes	S3VE
Cadmium	Target	2.0		ug/L	2.0		1	Yes	S3VE
Chromium	Target	4.1		ug/L	4.1		1	Yes	S3VE
Cobalt	Target	2.0		ug/L	2.0		1	Yes	S3VE
Copper	Target	4.5		ug/L	4.5		1	Yes	S3VE
Lead	Target	1.9		ug/L	1.9		1	Yes	S3VE
Manganese	Target	2.0		ug/L	2.0		1	Yes	S3VE
Nickel	Target	2.1		ug/L	2.1		1	Yes	S3VE
Selenium	Target	10.2		ug/L	10.2		1	Yes	S3VE
Silver	Target	2.1		ug/L	2.1		1	Yes	S3VE
Thallium	Target	1.9		ug/L	1.9		1	Yes	S3VE
Vanadium	Target	12.2		ug/L	12.2		1	Yes	S3VE
Zinc	Target	3.0		ug/L	3.0		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N0	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-98B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:10:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N0	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-98B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:10:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	90.7		ug/L	90.7		1	Yes	S3VE
Barium	Target	77.7	J	ug/L	77.7	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	16.9		ug/L	16.9		1	Yes	S3VE
Cobalt	Target	0.89	J	ug/L	0.89	J	1	Yes	S3VE
Copper	Target	1.8	J	ug/L	1.8	J	1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.30	J*	1	Yes	S3VE
Manganese	Target	1690	J	ug/L	1690	*D	2	Yes	S3VE
Nickel	Target	14.0	J	ug/L	14.0	*	1	Yes	S3VE
Selenium	Target	3.3	J	ug/L	3.3	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.025	J	1	Yes	S3VE
Vanadium	Target	7.4		ug/L	7.4		1	Yes	S3VE
Zinc	Target	1.7	J	ug/L	1.7	J	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N0	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-98B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:10:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	247		ug/L	247		1	Yes	S3VE
Calcium	Target	322000		ug/L	322000	D	10	Yes	S3VE
Iron	Target	1880	J	ug/L	1880	*	1	Yes	S3VE
Magnesium	Target	107000		ug/L	107000		1	Yes	S3VE
Potassium	Target	16600		ug/L	16600		1	Yes	S3VE
Sodium	Target	690000		ug/L	690000	D	10	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N4	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JW-EL01-1116	pH:		Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VE
Calcium	Target	5000	U	ug/L	5000	U	1	Yes	S3VE
Iron	Target	100	UJ	ug/L	100	U*	1	Yes	S3VE
Magnesium	Target	5000	U	ug/L	5000	U	1	Yes	S3VE
Potassium	Target	5000	U	ug/L	586	J	1	Yes	S3VE
Sodium	Target	5000	U	ug/L	647	J	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N4	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JW-EL01-1116	pH:		Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N4	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JW-EL01-1116	pH:		Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N4	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JW-EL01-1116	pH:		Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	1.0	U	ug/L	1.0		1	Yes	S3VE
Barium	Target	10.0	UJ	ug/L	10.0	U*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	2.0	U	ug/L	0.42	J	1	Yes	S3VE
Cobalt	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Copper	Target	1.6	J	ug/L	1.6	J	1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.051	J*	1	Yes	S3VE
Manganese	Target	1.0	UJ	ug/L	0.15	J*	1	Yes	S3VE
Nickel	Target	1.0	UJ	ug/L	1.0	U*	1	Yes	S3VE
Selenium	Target	5.0	U	ug/L	5.0	U	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Vanadium	Target	10.2		ug/L	10.2		1	Yes	S3VE
Zinc	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N5	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-04-1116	pH:		Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	1270		ug/L	1270	D	2	Yes	S3VE
Barium	Target	53.2	J	ug/L	53.2	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.053	J	1	Yes	S3VE
Chromium	Target	5.7		ug/L	5.7		1	Yes	S3VE
Cobalt	Target	0.65	J	ug/L	0.65	J	1	Yes	S3VE
Copper	Target	4.1		ug/L	4.1		1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.64	J*	1	Yes	S3VE
Manganese	Target	2980	J	ug/L	2980	*D	5	Yes	S3VE
Nickel	Target	6.5	J	ug/L	6.5	*	1	Yes	S3VE
Selenium	Target	4.1	J	ug/L	4.1	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.022	J	1	Yes	S3VE
Vanadium	Target	10.9		ug/L	10.9		1	Yes	S3VE
Zinc	Target	8.0		ug/L	8.0		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N5	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-04-1116	pH:		Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.088	J	ug/L	0.088	J	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N5	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-04-1116	pH:		Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N5	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-04-1116	pH:		Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	117	J	ug/L	117	J	1	Yes	S3VE
Calcium	Target	361000		ug/L	361000	D	10	Yes	S3VE
Iron	Target	44000	J	ug/L	44000	*	1	Yes	S3VE
Magnesium	Target	170000		ug/L	170000		1	Yes	S3VE
Potassium	Target	15900		ug/L	15900		1	Yes	S3VE
Sodium	Target	818000		ug/L	818000	D	10	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N7	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06A-1116	pH:		Sample Date:	12/02/2016	Sample Time:	04:21:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.077	J	ug/L	0.077	J	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N7	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06A-1116	pH:		Sample Date:	12/02/2016	Sample Time:	04:21:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	8960		ug/L	8960		1	Yes	S3VE
Calcium	Target	292000		ug/L	292000		1	Yes	S3VE
Iron	Target	14600	J	ug/L	14600	*	1	Yes	S3VE
Magnesium	Target	114000		ug/L	114000		1	Yes	S3VE
Potassium	Target	23300		ug/L	23300		1	Yes	S3VE
Sodium	Target	480000		ug/L	480000	D	10	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N7	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06A-1116	pH:		Sample Date:	12/02/2016	Sample Time:	04:21:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	33.4		ug/L	33.4		1	Yes	S3VE
Barium	Target	143	J	ug/L	143	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.12	J	1	Yes	S3VE
Chromium	Target	13.1		ug/L	13.1		1	Yes	S3VE
Cobalt	Target	6.9		ug/L	6.9		1	Yes	S3VE
Copper	Target	22.6		ug/L	22.6		1	Yes	S3VE
Lead	Target	5.4	J	ug/L	5.4	*	1	Yes	S3VE
Manganese	Target	1140	J	ug/L	1140	*D	2	Yes	S3VE
Nickel	Target	14.6	J	ug/L	14.6	*	1	Yes	S3VE
Selenium	Target	2.4	J	ug/L	2.4	J	1	Yes	S3VE
Silver	Target	0.047	J	ug/L	0.047	J	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.096	J	1	Yes	S3VE
Vanadium	Target	28.0		ug/L	28.0		1	Yes	S3VE
Zinc	Target	50.2		ug/L	50.2		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N8	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06B-1116	pH:		Sample Date:	12/02/2016	Sample Time:	03:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	2520		ug/L	2520		1	Yes	S3VE
Calcium	Target	496000		ug/L	496000	D	10	Yes	S3VE
Iron	Target	5170	J	ug/L	5170	*	1	Yes	S3VE
Magnesium	Target	149000		ug/L	149000		1	Yes	S3VE
Potassium	Target	20400		ug/L	20400		1	Yes	S3VE
Sodium	Target	714000		ug/L	714000	D	10	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N8	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06B-1116	pH:		Sample Date:	12/02/2016	Sample Time:	03:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N8	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06B-1116	pH:		Sample Date:	12/02/2016	Sample Time:	03:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	14.7		ug/L	14.7		1	Yes	S3VE
Barium	Target	79.6	J	ug/L	79.6	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	7.2		ug/L	7.2		1	Yes	S3VE
Cobalt	Target	2.6		ug/L	2.6		1	Yes	S3VE
Copper	Target	7.3		ug/L	7.3		1	Yes	S3VE
Lead	Target	1.5	J	ug/L	1.5	*	1	Yes	S3VE
Manganese	Target	2290	J	ug/L	2290	*D	5	Yes	S3VE
Nickel	Target	9.8	J	ug/L	9.8	*	1	Yes	S3VE
Selenium	Target	1.9	J	ug/L	1.9	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.028	J	1	Yes	S3VE
Vanadium	Target	9.6		ug/L	9.6		1	Yes	S3VE
Zinc	Target	9.2		ug/L	9.2		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N9	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06C-1116	pH:		Sample Date:	12/02/2016	Sample Time:	02:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	2030		ug/L	2030		1	Yes	S3VE
Calcium	Target	146000		ug/L	146000		1	Yes	S3VE
Iron	Target	4810	J	ug/L	4810	*	1	Yes	S3VE
Magnesium	Target	38300		ug/L	38300		1	Yes	S3VE
Potassium	Target	5000	U	ug/L	4330	J	1	Yes	S3VE
Sodium	Target	137000		ug/L	137000	D	2	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N9	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06C-1116	pH:		Sample Date:	12/02/2016	Sample Time:	02:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N9	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06C-1116	pH:		Sample Date:	12/02/2016	Sample Time:	02:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	4.6		ug/L	4.6		1	Yes	S3VE
Barium	Target	141	J	ug/L	141	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.052	J	1	Yes	S3VE
Chromium	Target	8.4		ug/L	8.4		1	Yes	S3VE
Cobalt	Target	1.7		ug/L	1.7		1	Yes	S3VE
Copper	Target	7.7		ug/L	7.7		1	Yes	S3VE
Lead	Target	1.5	J	ug/L	1.5	*	1	Yes	S3VE
Manganese	Target	812	J	ug/L	812	*	1	Yes	S3VE
Nickel	Target	7.4	J	ug/L	7.4	*	1	Yes	S3VE
Selenium	Target	2.4	J	ug/L	2.4	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.024	J	1	Yes	S3VE
Vanadium	Target	10.1		ug/L	10.1		1	Yes	S3VE
Zinc	Target	10.1		ug/L	10.1		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P1	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07A-1116	pH:		Sample Date:	12/02/2016	Sample Time:	01:23:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	4560		ug/L	4560		1	Yes	S3VE
Calcium	Target	263000		ug/L	263000		1	Yes	S3VE
Iron	Target	9300	J	ug/L	9300	*	1	Yes	S3VE
Magnesium	Target	171000		ug/L	171000		1	Yes	S3VE
Potassium	Target	18600		ug/L	18600		1	Yes	S3VE
Sodium	Target	1030000		ug/L	1030000	D	20	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P1	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07A-1116	pH:		Sample Date:	12/02/2016	Sample Time:	01:23:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	61.7		ug/L	61.7		1	Yes	S3VE
Barium	Target	81.8	J	ug/L	81.8	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.11	J	1	Yes	S3VE
Chromium	Target	7.4		ug/L	7.4		1	Yes	S3VE
Cobalt	Target	4.1		ug/L	4.1		1	Yes	S3VE
Copper	Target	16.7		ug/L	16.7		1	Yes	S3VE
Lead	Target	2.9	J	ug/L	2.9	*	1	Yes	S3VE
Manganese	Target	2450	J	ug/L	2450	*D	5	Yes	S3VE
Nickel	Target	16.6	J	ug/L	16.6	*	1	Yes	S3VE
Selenium	Target	4.3	J	ug/L	4.3	J	1	Yes	S3VE
Silver	Target	0.030	J	ug/L	0.030	J	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.051	J	1	Yes	S3VE
Vanadium	Target	17.1		ug/L	17.1		1	Yes	S3VE
Zinc	Target	23.2		ug/L	23.2		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P1	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07A-1116	pH:		Sample Date:	12/02/2016	Sample Time:	01:23:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.066	J	ug/L	0.066	J	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P2	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07B-1116	pH:		Sample Date:	12/02/2016	Sample Time:	00:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	11.3		ug/L	11.3		1	Yes	S3VE
Barium	Target	130	J	ug/L	130	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.040	J	1	Yes	S3VE
Chromium	Target	13.1		ug/L	13.1		1	Yes	S3VE
Cobalt	Target	2.4		ug/L	2.4		1	Yes	S3VE
Copper	Target	8.4		ug/L	8.4		1	Yes	S3VE
Lead	Target	1.6	J	ug/L	1.6	*	1	Yes	S3VE
Manganese	Target	945	J	ug/L	945	*	1	Yes	S3VE
Nickel	Target	11.6	J	ug/L	11.6	*	1	Yes	S3VE
Selenium	Target	1.6	J	ug/L	1.6	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.031	J	1	Yes	S3VE
Vanadium	Target	14.1		ug/L	14.1		1	Yes	S3VE
Zinc	Target	12.1		ug/L	12.1		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P2	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07B-1116	pH:		Sample Date:	12/02/2016	Sample Time:	00:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P2	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07B-1116	pH:		Sample Date:	12/02/2016	Sample Time:	00:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	2860		ug/L	2860		1	Yes	S3VE
Calcium	Target	193000		ug/L	193000		1	Yes	S3VE
Iron	Target	4260	J	ug/L	4260	*	1	Yes	S3VE
Magnesium	Target	56300		ug/L	56300		1	Yes	S3VE
Potassium	Target	8930		ug/L	8930		1	Yes	S3VE
Sodium	Target	128000		ug/L	128000	D	2	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P6	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08A-1116	pH:		Sample Date:	11/30/2016	Sample Time:	12:44:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	32.0		ug/L	32.0		1	Yes	S3VE
Barium	Target	138	J	ug/L	138	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.046	J	1	Yes	S3VE
Chromium	Target	17.0		ug/L	17.0		1	Yes	S3VE
Cobalt	Target	5.3		ug/L	5.3		1	Yes	S3VE
Copper	Target	14.0		ug/L	14.0		1	Yes	S3VE
Lead	Target	3.2	J	ug/L	3.2	*	1	Yes	S3VE
Manganese	Target	1750	J	ug/L	1750	*D	2	Yes	S3VE
Nickel	Target	17.0	J	ug/L	17.0	*	1	Yes	S3VE
Selenium	Target	2.4	J	ug/L	2.4	J	1	Yes	S3VE
Silver	Target	0.028	J	ug/L	0.028	J	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.081	J	1	Yes	S3VE
Vanadium	Target	22.4		ug/L	22.4		1	Yes	S3VE
Zinc	Target	28.3		ug/L	28.3		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P6	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08A-1116	pH:		Sample Date:	11/30/2016	Sample Time:	12:44:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	6040		ug/L	6040		1	Yes	S3VE
Calcium	Target	441000		ug/L	441000	D	5	Yes	S3VE
Iron	Target	10100	J	ug/L	10100	*	1	Yes	S3VE
Magnesium	Target	133000		ug/L	133000		1	Yes	S3VE
Potassium	Target	11900		ug/L	11900		1	Yes	S3VE
Sodium	Target	245000		ug/L	245000	D	5	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P6	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08A-1116	pH:		Sample Date:	11/30/2016	Sample Time:	12:44:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.059	J	ug/L	0.059	J	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P7	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P7	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VE
Calcium	Target	332000		ug/L	332000	D	10	Yes	S3VE
Iron	Target	1450	J	ug/L	1450	*	1	Yes	S3VE
Magnesium	Target	103000		ug/L	103000		1	Yes	S3VE
Potassium	Target	16000		ug/L	16000		1	Yes	S3VE
Sodium	Target	712000		ug/L	712000	D	10	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P7	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	86.2		ug/L	86.2		1	Yes	S3VE
Barium	Target	71.8	J	ug/L	71.8	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	14.5		ug/L	14.5		1	Yes	S3VE
Cobalt	Target	0.69	J	ug/L	0.69	J	1	Yes	S3VE
Copper	Target	0.79	J	ug/L	0.79	J	1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.17	J*	1	Yes	S3VE
Manganese	Target	1610	J	ug/L	1610	*D	2	Yes	S3VE
Nickel	Target	11.9	J	ug/L	11.9	*	1	Yes	S3VE
Selenium	Target	3.0	J	ug/L	3.0	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Vanadium	Target	5.6		ug/L	5.6		1	Yes	S3VE
Zinc	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P8	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08C-1116	pH:		Sample Date:	11/30/2016	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	58.8		ug/L	58.8		1	Yes	S3VE
Barium	Target	110	J	ug/L	110	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	19.4		ug/L	19.4		1	Yes	S3VE
Cobalt	Target	4.1		ug/L	4.1		1	Yes	S3VE
Copper	Target	10.1		ug/L	10.1		1	Yes	S3VE
Lead	Target	2.1	J	ug/L	2.1	*	1	Yes	S3VE
Manganese	Target	1210	J	ug/L	1210	*D	2	Yes	S3VE
Nickel	Target	15.7	J	ug/L	15.7	*	1	Yes	S3VE
Selenium	Target	1.9	J	ug/L	1.9	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.052	J	1	Yes	S3VE
Vanadium	Target	18.2		ug/L	18.2		1	Yes	S3VE
Zinc	Target	27.8		ug/L	27.8		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P8	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08C-1116	pH:		Sample Date:	11/30/2016	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.065	J	ug/L	0.065	J	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P8	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08C-1116	pH:		Sample Date:	11/30/2016	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	4750		ug/L	4750		1	Yes	S3VE
Calcium	Target	168000		ug/L	168000		1	Yes	S3VE
Iron	Target	8310	J	ug/L	8310	*	1	Yes	S3VE
Magnesium	Target	50200		ug/L	50200		1	Yes	S3VE
Potassium	Target	8950		ug/L	8950		1	Yes	S3VE
Sodium	Target	302000		ug/L	302000	D	5	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P9	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09A-1116	pH:		Sample Date:	11/28/2016	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	55.4		ug/L	55.4		1	Yes	S3VE
Barium	Target	64.4	J	ug/L	64.4	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.049	J	1	Yes	S3VE
Chromium	Target	16.2		ug/L	16.2		1	Yes	S3VE
Cobalt	Target	2.7		ug/L	2.7		1	Yes	S3VE
Copper	Target	8.6		ug/L	8.6		1	Yes	S3VE
Lead	Target	1.8	J	ug/L	1.8	*	1	Yes	S3VE
Manganese	Target	2570	J	ug/L	2570	*D	5	Yes	S3VE
Nickel	Target	14.4	J	ug/L	14.4	*	1	Yes	S3VE
Selenium	Target	2.5	J	ug/L	2.5	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.033	J	1	Yes	S3VE
Vanadium	Target	13.4		ug/L	13.4		1	Yes	S3VE
Zinc	Target	13.5		ug/L	13.5		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P9	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09A-1116	pH:		Sample Date:	11/28/2016	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P9	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09A-1116	pH:		Sample Date:	11/28/2016	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	2940		ug/L	2940		1	Yes	S3VE
Calcium	Target	293000		ug/L	293000		1	Yes	S3VE
Iron	Target	5440	J	ug/L	5440	*	1	Yes	S3VE
Magnesium	Target	167000		ug/L	167000		1	Yes	S3VE
Potassium	Target	21600		ug/L	21600		1	Yes	S3VE
Sodium	Target	956000		ug/L	956000	D	10	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P9	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09A-1116	pH:		Sample Date:	11/28/2016	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q0	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09B-1116	pH:		Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	130	J	ug/L	130	J	1	Yes	S3VE
Calcium	Target	197000		ug/L	197000		1	Yes	S3VE
Iron	Target	404	J	ug/L	404	*	1	Yes	S3VE
Magnesium	Target	53000		ug/L	53000		1	Yes	S3VE
Potassium	Target	9440		ug/L	9440		1	Yes	S3VE
Sodium	Target	79300		ug/L	79300		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q0	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09B-1116	pH:		Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q0	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09B-1116	pH:		Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q0	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09B-1116	pH:		Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	0.79	J	ug/L	0.79	J	1	Yes	S3VE
Arsenic	Target	124		ug/L	124		1	Yes	S3VE
Barium	Target	60.9	J	ug/L	60.9	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.051	J	1	Yes	S3VE
Chromium	Target	2.8		ug/L	2.8		1	Yes	S3VE
Cobalt	Target	0.90	J	ug/L	0.90	J	1	Yes	S3VE
Copper	Target	2.2		ug/L	2.2		1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.88	J*	1	Yes	S3VE
Manganese	Target	1900	J	ug/L	1900	*D	2	Yes	S3VE
Nickel	Target	6.5	J	ug/L	6.5	*	1	Yes	S3VE
Selenium	Target	2.7	J	ug/L	2.7	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Vanadium	Target	5.9		ug/L	5.9		1	Yes	S3VE
Zinc	Target	5.9		ug/L	5.9		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q0D	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q0S	Method: Cyanide	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/28/2016	Sample Time: 11:08:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Spike	99.7		ug/L	99.7		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q1	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09C-1116	pH:		Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	289		ug/L	289		1	Yes	S3VE
Calcium	Target	142000		ug/L	142000		1	Yes	S3VE
Iron	Target	1050	J	ug/L	1050	*	1	Yes	S3VE
Magnesium	Target	37800		ug/L	37800		1	Yes	S3VE
Potassium	Target	5310		ug/L	5310		1	Yes	S3VE
Sodium	Target	145000		ug/L	145000	D	2	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q1	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09C-1116	pH:		Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	9.0		ug/L	9.0		1	Yes	S3VE
Barium	Target	99.7	J	ug/L	99.7	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	4.1		ug/L	4.1		1	Yes	S3VE
Cobalt	Target	0.52	J	ug/L	0.52	J	1	Yes	S3VE
Copper	Target	1.2	J	ug/L	1.2	J	1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.31	J*	1	Yes	S3VE
Manganese	Target	944	J	ug/L	944	*D	2	Yes	S3VE
Nickel	Target	3.8	J	ug/L	3.8	*	1	Yes	S3VE
Selenium	Target	1.5	J	ug/L	1.5	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.016	J	1	Yes	S3VE
Vanadium	Target	8.4		ug/L	8.4		1	Yes	S3VE
Zinc	Target	3.4		ug/L	3.4		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q1	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09C-1116	pH:		Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q1	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09C-1116	pH:		Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q2	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-10-1116	pH:		Sample Date:	11/28/2016	Sample Time:	09:14:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.061	J	ug/L	0.061	J	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q2	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-10-1116	pH:		Sample Date:	11/28/2016	Sample Time:	09:14:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number:	MYA8Q2	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-10-1116	pH:		Sample Date:	11/28/2016	Sample Time:	09:14:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	4640		ug/L	4640		1	Yes	S3VE
Calcium	Target	192000		ug/L	192000		1	Yes	S3VE
Iron	Target	9180	J	ug/L	9180	*	1	Yes	S3VE
Magnesium	Target	51700		ug/L	51700		1	Yes	S3VE
Potassium	Target	6100		ug/L	6100		1	Yes	S3VE
Sodium	Target	89900		ug/L	89900		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q2	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-10-1116	pH:		Sample Date:	11/28/2016	Sample Time:	09:14:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	24.7		ug/L	24.7		1	Yes	S3VE
Barium	Target	209	J	ug/L	209	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	15.9		ug/L	15.9		1	Yes	S3VE
Cobalt	Target	4.5		ug/L	4.5		1	Yes	S3VE
Copper	Target	13.2		ug/L	13.2		1	Yes	S3VE
Lead	Target	3.3	J	ug/L	3.3	*	1	Yes	S3VE
Manganese	Target	871	J	ug/L	871	*D	2	Yes	S3VE
Nickel	Target	13.2	J	ug/L	13.2	*	1	Yes	S3VE
Selenium	Target	1.2	J	ug/L	1.2	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.072	J	1	Yes	S3VE
Vanadium	Target	21.3		ug/L	21.3		1	Yes	S3VE
Zinc	Target	84.1		ug/L	84.1		1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q4	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-11A-1116	pH:	Sample Date: 11/29/2016	Sample Time: 12:48:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	34.8		ug/L	34.8		1	Yes	S3VE
Barium	Target	76.9	J	ug/L	76.9	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	4.6		ug/L	4.6		1	Yes	S3VE
Cobalt	Target	2.8		ug/L	2.8		1	Yes	S3VE
Copper	Target	6.7		ug/L	6.7		1	Yes	S3VE
Lead	Target	1.5	J	ug/L	1.5	*	1	Yes	S3VE
Manganese	Target	1800	J	ug/L	1800	*D	2	Yes	S3VE
Nickel	Target	8.1	J	ug/L	8.1	*	1	Yes	S3VE
Selenium	Target	3.0	J	ug/L	3.0	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.025	J	1	Yes	S3VE
Vanadium	Target	10.8		ug/L	10.8		1	Yes	S3VE
Zinc	Target	12.0		ug/L	12.0		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q4	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11A-1116	pH:		Sample Date:	11/29/2016	Sample Time:	12:48:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q4	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11A-1116	pH:		Sample Date:	11/29/2016	Sample Time:	12:48:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	2280		ug/L	2280		1	Yes	S3VE
Calcium	Target	274000		ug/L	274000		1	Yes	S3VE
Iron	Target	4410	J	ug/L	4410	*	1	Yes	S3VE
Magnesium	Target	111000		ug/L	111000		1	Yes	S3VE
Potassium	Target	15700		ug/L	15700		1	Yes	S3VE
Sodium	Target	396000		ug/L	396000	D	5	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q5	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-11B-1116	pH:	Sample Date: 11/29/2016	Sample Time: 11:03:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	UJ	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	45.4		ug/L	45.4		1	Yes	S3VE
Barium	Target	42.9	J	ug/L	42.9	*	1	Yes	S3VE
Beryllium	Target	1.0	UJ	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	UJ	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	3.8	J	ug/L	3.8		1	Yes	S3VE
Cobalt	Target	2.0	J	ug/L	2.0		1	Yes	S3VE
Copper	Target	2.8	J	ug/L	2.8		1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.64	J*	1	Yes	S3VE
Manganese	Target	3230	J	ug/L	3230	*D	5	Yes	S3VE
Nickel	Target	6.4	J	ug/L	6.4	*	1	Yes	S3VE
Selenium	Target	2.9	J	ug/L	2.9	J	1	Yes	S3VE
Silver	Target	1.0	UJ	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	UJ	ug/L	0.013	J	1	Yes	S3VE
Vanadium	Target	5.5	J	ug/L	5.5		1	Yes	S3VE
Zinc	Target	6.9	J	ug/L	6.9		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q5	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11B-1116	pH:		Sample Date:	11/29/2016	Sample Time:	11:03:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	882		ug/L	882		1	Yes	S3VE
Calcium	Target	371000		ug/L	371000	D	10	Yes	S3VE
Iron	Target	3100	J	ug/L	3100	*	1	Yes	S3VE
Magnesium	Target	187000		ug/L	187000		1	Yes	S3VE
Potassium	Target	16400		ug/L	16400		1	Yes	S3VE
Sodium	Target	829000		ug/L	829000	D	10	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q5	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11B-1116	pH:		Sample Date:	11/29/2016	Sample Time:	11:03:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q6	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-911B-1116	pH:		Sample Date:	11/29/2016	Sample Time:	11:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	699		ug/L	699		1	Yes	S3VE
Calcium	Target	367000		ug/L	367000	D	10	Yes	S3VE
Iron	Target	2630	J	ug/L	2630	*	1	Yes	S3VE
Magnesium	Target	183000		ug/L	183000		1	Yes	S3VE
Potassium	Target	15700		ug/L	15700		1	Yes	S3VE
Sodium	Target	816000		ug/L	816000	D	10	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q6	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-911B-1116	pH:		Sample Date:	11/29/2016	Sample Time:	11:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q6	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-911B-1116	pH:		Sample Date:	11/29/2016	Sample Time:	11:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	45.3		ug/L	45.3		1	Yes	S3VE
Barium	Target	42.5	J	ug/L	42.5	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	3.6		ug/L	3.6		1	Yes	S3VE
Cobalt	Target	1.9		ug/L	1.9		1	Yes	S3VE
Copper	Target	2.4		ug/L	2.4		1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.45	J*	1	Yes	S3VE
Manganese	Target	3330	J	ug/L	3330	*D	5	Yes	S3VE
Nickel	Target	6.0	J	ug/L	6.0	*	1	Yes	S3VE
Selenium	Target	3.1	J	ug/L	3.1	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.014	J	1	Yes	S3VE
Vanadium	Target	5.0	U	ug/L	4.3	J	1	Yes	S3VE
Zinc	Target	5.0		ug/L	5.0		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q7	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11C-1116	pH:		Sample Date:	11/29/2016	Sample Time:	09:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-11C-1116	pH:	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	21.0		ug/L	21.0		1	Yes	S3VE
Barium	Target	49.7	J	ug/L	49.7	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	4.8		ug/L	4.8		1	Yes	S3VE
Cobalt	Target	2.5		ug/L	2.5		1	Yes	S3VE
Copper	Target	3.4		ug/L	3.4		1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.87	J*	1	Yes	S3VE
Manganese	Target	1560	J	ug/L	1560	*D	5	Yes	S3VE
Nickel	Target	8.7	J	ug/L	8.7	*	1	Yes	S3VE
Selenium	Target	3.6	J	ug/L	3.6	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.012	J	1	Yes	S3VE
Vanadium	Target	5.0	U	ug/L	3.9	J	1	Yes	S3VE
Zinc	Target	17.2		ug/L	17.2		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q7	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11C-1116	pH:		Sample Date:	11/29/2016	Sample Time:	09:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	511		ug/L	511		1	Yes	S3VE
Calcium	Target	693000		ug/L	693000	D	5	Yes	S3VE
Iron	Target	1940	J	ug/L	1940	*	1	Yes	S3VE
Magnesium	Target	147000		ug/L	147000		1	Yes	S3VE
Potassium	Target	11000		ug/L	11000		1	Yes	S3VE
Sodium	Target	295000		ug/L	295000	D	5	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number:	MYA8Q7A	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/29/2016	Sample Time:	09:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Barium	Spike	70.3		ug/L	70.3		1	Yes	S3VE
Lead	Spike	2.8		ug/L	2.8		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q7D	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/29/2016	Sample Time:	09:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7D	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	20.8		ug/L	20.8		1	Yes	S3VE
Barium	Target	49.3		ug/L	49.3		1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	4.6		ug/L	4.6		1	Yes	S3VE
Cobalt	Target	2.5		ug/L	2.5		1	Yes	S3VE
Copper	Target	3.2		ug/L	3.2		1	Yes	S3VE
Lead	Target	0.79	J	ug/L	0.79	J	1	Yes	S3VE
Manganese	Target	1610		ug/L	1610	D	5	Yes	S3VE
Nickel	Target	9.0		ug/L	9.0		1	Yes	S3VE
Selenium	Target	3.3	J	ug/L	3.3	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	0.075	J	ug/L	0.075	J	1	Yes	S3VE
Vanadium	Target	4.0	J	ug/L	4.0	J	1	Yes	S3VE
Zinc	Target	16.6		ug/L	16.6		1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7D	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	539		ug/L	539		1	Yes	S3VE
Calcium	Target	697000		ug/L	697000	D	5	Yes	S3VE
Iron	Target	1980		ug/L	1980		1	Yes	S3VE
Magnesium	Target	152000		ug/L	152000		1	Yes	S3VE
Potassium	Target	11400		ug/L	11400		1	Yes	S3VE
Sodium	Target	296000		ug/L	296000	D	5	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7L	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	10.0	U	ug/L	10.0	U	5	Yes	S3VE
Arsenic	Target	22.0		ug/L	22.0		5	Yes	S3VE
Barium	Target	51.5		ug/L	51.5		5	Yes	S3VE
Beryllium	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VE
Cadmium	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VE
Chromium	Target	5.2	J	ug/L	5.2	J	5	Yes	S3VE
Cobalt	Target	2.7	J	ug/L	2.7	J	5	Yes	S3VE
Copper	Target	3.8	J	ug/L	3.8	J	5	Yes	S3VE
Lead	Target	0.84	J	ug/L	0.84	J	5	Yes	S3VE
Manganese	Target	1750		ug/L	1750	*	25	Yes	S3VE
Nickel	Target	10.4		ug/L	10.4	*	5	Yes	S3VE
Selenium	Target	4.1	J	ug/L	4.1	J	5	Yes	S3VE
Silver	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VE
Thallium	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VE
Vanadium	Target	5.7	J	ug/L	5.7	J	5	Yes	S3VE
Zinc	Target	13.2		ug/L	13.2		5	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI
Sample Number: MYA8Q7L	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	898	J	ug/L	898	J	5	Yes	S3VE
Calcium	Target	651000		ug/L	651000		25	Yes	S3VE
Iron	Target	2180		ug/L	2180	*	5	Yes	S3VE
Magnesium	Target	156000		ug/L	156000		5	Yes	S3VE
Potassium	Target	10700	J	ug/L	10700	J	5	Yes	S3VE
Sodium	Target	271000		ug/L	271000		25	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q7S	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/29/2016	Sample Time:	09:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Spike	94.1		ug/L	94.1		1	Yes	S3VE
Arsenic	Spike	61.9		ug/L	61.9		1	Yes	S3VE
Barium	Spike	565		ug/L	565	*	1	Yes	S3VE
Beryllium	Spike	49.3		ug/L	49.3		1	Yes	S3VE
Cadmium	Spike	45.7		ug/L	45.7		1	Yes	S3VE
Chromium	Spike	192		ug/L	192		1	Yes	S3VE
Cobalt	Spike	487		ug/L	487		1	Yes	S3VE
Copper	Spike	235		ug/L	235		1	Yes	S3VE
Lead	Spike	9.9		ug/L	9.9	*	1	Yes	S3VE
Manganese	Spike	2010		ug/L	2010	D	5	Yes	S3VE
Nickel	Spike	473		ug/L	473		1	Yes	S3VE
Selenium	Spike	104		ug/L	104		1	Yes	S3VE
Silver	Spike	45.4		ug/L	45.4		1	Yes	S3VE
Thallium	Spike	46.5		ug/L	46.5		1	Yes	S3VE
Vanadium	Spike	495		ug/L	495		1	Yes	S3VE
Zinc	Spike	491		ug/L	491		1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7S	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Spike	2280		ug/L	2280		1	Yes	S3VE
Iron	Spike	2790		ug/L	2790		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q7S	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/29/2016	Sample Time:	09:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Spike	0.94		ug/L	0.94		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q8	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-12-1116	pH:		Sample Date:	11/29/2016	Sample Time:	08:11:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q8	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-12-1116	pH:		Sample Date:	11/29/2016	Sample Time:	08:11:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	9.6		ug/L	9.6		1	Yes	S3VE
Barium	Target	55.5	J	ug/L	55.5	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.16	J	1	Yes	S3VE
Chromium	Target	5.5		ug/L	5.5		1	Yes	S3VE
Cobalt	Target	1.5		ug/L	1.5		1	Yes	S3VE
Copper	Target	3.1		ug/L	3.1		1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.56	J*	1	Yes	S3VE
Manganese	Target	750	J	ug/L	750	*	1	Yes	S3VE
Nickel	Target	8.4	J	ug/L	8.4	*	1	Yes	S3VE
Selenium	Target	3.2	J	ug/L	3.2	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	0.056	J	1	Yes	S3VE
Vanadium	Target	10.5		ug/L	10.5		1	Yes	S3VE
Zinc	Target	2.8		ug/L	2.8		1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number:	MYA8Q8	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-12-1116	pH:		Sample Date:	11/29/2016	Sample Time:	08:11:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	446		ug/L	446		1	Yes	S3VE
Calcium	Target	828000		ug/L	828000	D	5	Yes	S3VE
Iron	Target	952	J	ug/L	952	*	1	Yes	S3VE
Magnesium	Target	149000		ug/L	149000		1	Yes	S3VE
Potassium	Target	8350		ug/L	8350		1	Yes	S3VE
Sodium	Target	427000		ug/L	427000	D	5	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: PBW001	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VE
Calcium	Target	5000	U	ug/L	5000	U	1	Yes	S3VE
Iron	Target	100	U	ug/L	100	U	1	Yes	S3VE
Magnesium	Target	5000	U	ug/L	5000	U	1	Yes	S3VE
Potassium	Target	3290	J	ug/L	3290	J	1	Yes	S3VE
Sodium	Target	2550	J	ug/L	2550	J	1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: PBW001	Method: Cyanide	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	PBW001	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI
Sample Number: PBW010	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	0.54	J	ug/L	0.54	J	1	Yes	S3VE
Barium	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	0.51	J	ug/L	0.51	J	1	Yes	S3VE
Cobalt	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Copper	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Lead	Target	0.048	J	ug/L	0.048	J	1	Yes	S3VE
Manganese	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Nickel	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Selenium	Target	5.0	U	ug/L	5.0	U	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	0.056	J	ug/L	0.056	J	1	Yes	S3VE
Vanadium	Target	3.9	J	ug/L	3.9	J	1	Yes	S3VE
Zinc	Target	-1.2		ug/L	-1.2	J	1	Yes	S3VE

Sample Summary Report

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	LCS001	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	394		ug/L	394		1	Yes	S3VEM
Calcium	Target	9430		ug/L	9430		1	Yes	S3VEM
Iron	Target	199		ug/L	199		1	Yes	S3VEM
Magnesium	Target	9560		ug/L	9560		1	Yes	S3VEM
Potassium	Target	10600		ug/L	10600		1	Yes	S3VEM
Sodium	Target	10600		ug/L	10600		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI
Sample Number: LCS010	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	3.9		ug/L	3.9		1	Yes	S3VEM
Arsenic	Target	2.5		ug/L	2.5		1	Yes	S3VEM
Barium	Target	18.9		ug/L	18.9		1	Yes	S3VEM
Beryllium	Target	2.4		ug/L	2.4		1	Yes	S3VEM
Cadmium	Target	2.0		ug/L	2.0		1	Yes	S3VEM
Chromium	Target	4.1		ug/L	4.1		1	Yes	S3VEM
Cobalt	Target	2.0		ug/L	2.0		1	Yes	S3VEM
Copper	Target	4.5		ug/L	4.5		1	Yes	S3VEM
Lead	Target	1.9		ug/L	1.9		1	Yes	S3VEM
Manganese	Target	2.0		ug/L	2.0		1	Yes	S3VEM
Nickel	Target	2.1		ug/L	2.1		1	Yes	S3VEM
Selenium	Target	10.2		ug/L	10.2		1	Yes	S3VEM
Silver	Target	2.1		ug/L	2.1		1	Yes	S3VEM
Thallium	Target	1.9		ug/L	1.9		1	Yes	S3VEM
Vanadium	Target	12.2		ug/L	12.2		1	Yes	S3VEM
Zinc	Target	3.0		ug/L	3.0		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N0	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-98B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:10:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	90.7		ug/L	90.7		1	Yes	S3VEM
Barium	Target	77.7	J-	ug/L	77.7	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	16.9		ug/L	16.9		1	Yes	S3VEM
Cobalt	Target	0.89	J	ug/L	0.89	J	1	Yes	S3VEM
Copper	Target	1.8	J	ug/L	1.8	J	1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.30	J*	1	Yes	S3VEM
Manganese	Target	1690	J	ug/L	1690	*D	2	Yes	S3VEM
Nickel	Target	14.0	J	ug/L	14.0	*	1	Yes	S3VEM
Selenium	Target	3.3	J	ug/L	3.3	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.025	J	1	Yes	S3VEM
Vanadium	Target	7.4		ug/L	7.4		1	Yes	S3VEM
Zinc	Target	1.7	J	ug/L	1.7	J	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N0	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-98B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:10:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N0	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-98B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:10:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	247		ug/L	247		1	Yes	S3VEM
Calcium	Target	322000		ug/L	322000	D	10	Yes	S3VEM
Iron	Target	1880	J	ug/L	1880	*	1	Yes	S3VEM
Magnesium	Target	107000		ug/L	107000		1	Yes	S3VEM
Potassium	Target	16600		ug/L	16600		1	Yes	S3VEM
Sodium	Target	690000		ug/L	690000	D	10	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N4	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JW-EL01-1116	pH:		Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N4	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JW-EL01-1116	pH:		Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VEM
Calcium	Target	5000	U	ug/L	5000	U	1	Yes	S3VEM
Iron	Target	100	U	ug/L	100	U*	1	Yes	S3VEM
Magnesium	Target	5000	U	ug/L	5000	U	1	Yes	S3VEM
Potassium	Target	5000	U	ug/L	586	J	1	Yes	S3VEM
Sodium	Target	5000	U	ug/L	647	J	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N4	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JW-EL01-1116	pH:		Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N4	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JW-EL01-1116	pH:		Sample Date:	11/28/2016	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	1.0	U	ug/L	1.0		1	Yes	S3VEM
Barium	Target	10.0	U	ug/L	10.0	U*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	2.0	U	ug/L	0.42	J	1	Yes	S3VEM
Cobalt	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Copper	Target	1.6	J	ug/L	1.6	J	1	Yes	S3VEM
Lead	Target	1.0	U	ug/L	0.051	J*	1	Yes	S3VEM
Manganese	Target	0.15	J	ug/L	0.15	J*	1	Yes	S3VEM
Nickel	Target	1.0	U	ug/L	1.0	U*	1	Yes	S3VEM
Selenium	Target	5.0	U	ug/L	5.0	U	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Vanadium	Target	10.2		ug/L	10.2		1	Yes	S3VEM
Zinc	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N5	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-04-1116	pH:		Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	1270		ug/L	1270	D	2	Yes	S3VEM
Barium	Target	53.2	J-	ug/L	53.2	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.053	J	1	Yes	S3VEM
Chromium	Target	5.7		ug/L	5.7		1	Yes	S3VEM
Cobalt	Target	0.65	J	ug/L	0.65	J	1	Yes	S3VEM
Copper	Target	4.1		ug/L	4.1		1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.64	J*	1	Yes	S3VEM
Manganese	Target	2980	J	ug/L	2980	*D	5	Yes	S3VEM
Nickel	Target	6.5	J	ug/L	6.5	*	1	Yes	S3VEM
Selenium	Target	4.1	J	ug/L	4.1	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.022	J	1	Yes	S3VEM
Vanadium	Target	10.9	J+	ug/L	10.9		1	Yes	S3VEM
Zinc	Target	8.0		ug/L	8.0		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N5	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-04-1116	pH:		Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	117	J	ug/L	117	J	1	Yes	S3VEM
Calcium	Target	361000		ug/L	361000	D	10	Yes	S3VEM
Iron	Target	44000	J	ug/L	44000	*	1	Yes	S3VEM
Magnesium	Target	170000		ug/L	170000		1	Yes	S3VEM
Potassium	Target	15900		ug/L	15900		1	Yes	S3VEM
Sodium	Target	818000		ug/L	818000	D	10	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N5	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-04-1116	pH:		Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N5	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-04-1116	pH:		Sample Date:	11/28/2016	Sample Time:	08:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.088	J	ug/L	0.088	J	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8N7	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-06A-1116	pH:	Sample Date: 12/02/2016	Sample Time: 04:21:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	33.4		ug/L	33.4		1	Yes	S3VEM
Barium	Target	143	J-	ug/L	143	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.12	J	1	Yes	S3VEM
Chromium	Target	13.1		ug/L	13.1		1	Yes	S3VEM
Cobalt	Target	6.9		ug/L	6.9		1	Yes	S3VEM
Copper	Target	22.6		ug/L	22.6		1	Yes	S3VEM
Lead	Target	5.4	J-	ug/L	5.4	*	1	Yes	S3VEM
Manganese	Target	1140	J	ug/L	1140	*D	2	Yes	S3VEM
Nickel	Target	14.6	J	ug/L	14.6	*	1	Yes	S3VEM
Selenium	Target	2.4	J	ug/L	2.4	J	1	Yes	S3VEM
Silver	Target	0.047	J	ug/L	0.047	J	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.096	J	1	Yes	S3VEM
Vanadium	Target	28.0		ug/L	28.0		1	Yes	S3VEM
Zinc	Target	50.2		ug/L	50.2		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N7	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06A-1116	pH:		Sample Date:	12/02/2016	Sample Time:	04:21:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	8960		ug/L	8960		1	Yes	S3VEM
Calcium	Target	292000		ug/L	292000		1	Yes	S3VEM
Iron	Target	14600	J	ug/L	14600	*	1	Yes	S3VEM
Magnesium	Target	114000		ug/L	114000		1	Yes	S3VEM
Potassium	Target	23300		ug/L	23300		1	Yes	S3VEM
Sodium	Target	480000		ug/L	480000	D	10	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N7	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06A-1116	pH:		Sample Date:	12/02/2016	Sample Time:	04:21:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.077	J	ug/L	0.077	J	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N8	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06B-1116	pH:		Sample Date:	12/02/2016	Sample Time:	03:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	2520		ug/L	2520		1	Yes	S3VEM
Calcium	Target	496000		ug/L	496000	D	10	Yes	S3VEM
Iron	Target	5170	J	ug/L	5170	*	1	Yes	S3VEM
Magnesium	Target	149000		ug/L	149000		1	Yes	S3VEM
Potassium	Target	20400		ug/L	20400		1	Yes	S3VEM
Sodium	Target	714000		ug/L	714000	D	10	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N8	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06B-1116	pH:		Sample Date:	12/02/2016	Sample Time:	03:30:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8N8	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-06B-1116	pH:	Sample Date: 12/02/2016	Sample Time: 03:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	14.7		ug/L	14.7		1	Yes	S3VEM
Barium	Target	79.6	J-	ug/L	79.6	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	7.2		ug/L	7.2		1	Yes	S3VEM
Cobalt	Target	2.6		ug/L	2.6		1	Yes	S3VEM
Copper	Target	7.3		ug/L	7.3		1	Yes	S3VEM
Lead	Target	1.5	J-	ug/L	1.5	*	1	Yes	S3VEM
Manganese	Target	2290	J	ug/L	2290	*D	5	Yes	S3VEM
Nickel	Target	9.8	J	ug/L	9.8	*	1	Yes	S3VEM
Selenium	Target	1.9	J	ug/L	1.9	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.028	J	1	Yes	S3VEM
Vanadium	Target	9.6		ug/L	9.6		1	Yes	S3VEM
Zinc	Target	9.2		ug/L	9.2		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N9	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06C-1116	pH:		Sample Date:	12/02/2016	Sample Time:	02:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N9	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06C-1116	pH:		Sample Date:	12/02/2016	Sample Time:	02:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	2030		ug/L	2030		1	Yes	S3VEM
Calcium	Target	146000		ug/L	146000		1	Yes	S3VEM
Iron	Target	4810	J	ug/L	4810	*	1	Yes	S3VEM
Magnesium	Target	38300		ug/L	38300		1	Yes	S3VEM
Potassium	Target	5000	U	ug/L	4330	J	1	Yes	S3VEM
Sodium	Target	137000		ug/L	137000	D	2	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8N9	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-06C-1116	pH:		Sample Date:	12/02/2016	Sample Time:	02:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	4.6		ug/L	4.6		1	Yes	S3VEM
Barium	Target	141	J-	ug/L	141	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.052	J	1	Yes	S3VEM
Chromium	Target	8.4		ug/L	8.4		1	Yes	S3VEM
Cobalt	Target	1.7		ug/L	1.7		1	Yes	S3VEM
Copper	Target	7.7		ug/L	7.7		1	Yes	S3VEM
Lead	Target	1.5	J-	ug/L	1.5	*	1	Yes	S3VEM
Manganese	Target	812	J	ug/L	812	*	1	Yes	S3VEM
Nickel	Target	7.4	J	ug/L	7.4	*	1	Yes	S3VEM
Selenium	Target	2.4	J	ug/L	2.4	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.024	J	1	Yes	S3VEM
Vanadium	Target	10.1		ug/L	10.1		1	Yes	S3VEM
Zinc	Target	10.1		ug/L	10.1		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P1	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07A-1116	pH:		Sample Date:	12/02/2016	Sample Time:	01:23:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	61.7		ug/L	61.7		1	Yes	S3VEM
Barium	Target	81.8	J-	ug/L	81.8	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.11	J	1	Yes	S3VEM
Chromium	Target	7.4		ug/L	7.4		1	Yes	S3VEM
Cobalt	Target	4.1		ug/L	4.1		1	Yes	S3VEM
Copper	Target	16.7		ug/L	16.7		1	Yes	S3VEM
Lead	Target	2.9	J-	ug/L	2.9	*	1	Yes	S3VEM
Manganese	Target	2450	J	ug/L	2450	*D	5	Yes	S3VEM
Nickel	Target	16.6	J	ug/L	16.6	*	1	Yes	S3VEM
Selenium	Target	4.3	J	ug/L	4.3	J	1	Yes	S3VEM
Silver	Target	0.030	J	ug/L	0.030	J	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.051	J	1	Yes	S3VEM
Vanadium	Target	17.1		ug/L	17.1		1	Yes	S3VEM
Zinc	Target	23.2		ug/L	23.2		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P1	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07A-1116	pH:		Sample Date:	12/02/2016	Sample Time:	01:23:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.066	J	ug/L	0.066	J	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P1	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07A-1116	pH:		Sample Date:	12/02/2016	Sample Time:	01:23:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	4560		ug/L	4560		1	Yes	S3VEM
Calcium	Target	263000		ug/L	263000		1	Yes	S3VEM
Iron	Target	9300	J	ug/L	9300	*	1	Yes	S3VEM
Magnesium	Target	171000		ug/L	171000		1	Yes	S3VEM
Potassium	Target	18600		ug/L	18600		1	Yes	S3VEM
Sodium	Target	1030000		ug/L	1030000	D	20	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P2	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07B-1116	pH:		Sample Date:	12/02/2016	Sample Time:	00:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	11.3		ug/L	11.3		1	Yes	S3VEM
Barium	Target	130	J-	ug/L	130	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.040	J	1	Yes	S3VEM
Chromium	Target	13.1		ug/L	13.1		1	Yes	S3VEM
Cobalt	Target	2.4		ug/L	2.4		1	Yes	S3VEM
Copper	Target	8.4		ug/L	8.4		1	Yes	S3VEM
Lead	Target	1.6	J-	ug/L	1.6	*	1	Yes	S3VEM
Manganese	Target	945	J	ug/L	945	*	1	Yes	S3VEM
Nickel	Target	11.6	J	ug/L	11.6	*	1	Yes	S3VEM
Selenium	Target	1.6	J	ug/L	1.6	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.031	J	1	Yes	S3VEM
Vanadium	Target	14.1		ug/L	14.1		1	Yes	S3VEM
Zinc	Target	12.1		ug/L	12.1		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P2	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07B-1116	pH:		Sample Date:	12/02/2016	Sample Time:	00:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	2860		ug/L	2860		1	Yes	S3VEM
Calcium	Target	193000		ug/L	193000		1	Yes	S3VEM
Iron	Target	4260	J	ug/L	4260	*	1	Yes	S3VEM
Magnesium	Target	56300		ug/L	56300		1	Yes	S3VEM
Potassium	Target	8930		ug/L	8930		1	Yes	S3VEM
Sodium	Target	128000		ug/L	128000	D	2	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P2	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07B-1116	pH:		Sample Date:	12/02/2016	Sample Time:	00:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P6	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08A-1116	pH:		Sample Date:	11/30/2016	Sample Time:	12:44:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.059	J	ug/L	0.059	J	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P6	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08A-1116	pH:		Sample Date:	11/30/2016	Sample Time:	12:44:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	6040		ug/L	6040		1	Yes	S3VEM
Calcium	Target	441000		ug/L	441000	D	5	Yes	S3VEM
Iron	Target	10100	J	ug/L	10100	*	1	Yes	S3VEM
Magnesium	Target	133000		ug/L	133000		1	Yes	S3VEM
Potassium	Target	11900		ug/L	11900		1	Yes	S3VEM
Sodium	Target	245000		ug/L	245000	D	5	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P6	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08A-1116	pH:		Sample Date:	11/30/2016	Sample Time:	12:44:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	32.0		ug/L	32.0		1	Yes	S3VEM
Barium	Target	138	J-	ug/L	138	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.046	J	1	Yes	S3VEM
Chromium	Target	17.0		ug/L	17.0		1	Yes	S3VEM
Cobalt	Target	5.3		ug/L	5.3		1	Yes	S3VEM
Copper	Target	14.0		ug/L	14.0		1	Yes	S3VEM
Lead	Target	3.2	J-	ug/L	3.2	*	1	Yes	S3VEM
Manganese	Target	1750	J	ug/L	1750	*D	2	Yes	S3VEM
Nickel	Target	17.0	J	ug/L	17.0	*	1	Yes	S3VEM
Selenium	Target	2.4	J	ug/L	2.4	J	1	Yes	S3VEM
Silver	Target	0.028	J	ug/L	0.028	J	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.081	J	1	Yes	S3VEM
Vanadium	Target	22.4		ug/L	22.4		1	Yes	S3VEM
Zinc	Target	28.3		ug/L	28.3		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P7	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P7	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VEM
Calcium	Target	332000		ug/L	332000	D	10	Yes	S3VEM
Iron	Target	1450	J	ug/L	1450	*	1	Yes	S3VEM
Magnesium	Target	103000		ug/L	103000		1	Yes	S3VEM
Potassium	Target	16000		ug/L	16000		1	Yes	S3VEM
Sodium	Target	712000		ug/L	712000	D	10	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P7	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08B-1116	pH:		Sample Date:	11/30/2016	Sample Time:	11:04:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	86.2		ug/L	86.2		1	Yes	S3VEM
Barium	Target	71.8	J-	ug/L	71.8	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	14.5		ug/L	14.5		1	Yes	S3VEM
Cobalt	Target	0.69	J	ug/L	0.69	J	1	Yes	S3VEM
Copper	Target	0.79	J	ug/L	0.79	J	1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.17	J*	1	Yes	S3VEM
Manganese	Target	1610	J	ug/L	1610	*D	2	Yes	S3VEM
Nickel	Target	11.9	J	ug/L	11.9	*	1	Yes	S3VEM
Selenium	Target	3.0	J	ug/L	3.0	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Vanadium	Target	5.6		ug/L	5.6		1	Yes	S3VEM
Zinc	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P8	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08C-1116	pH:		Sample Date:	11/30/2016	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	4750		ug/L	4750		1	Yes	S3VEM
Calcium	Target	168000		ug/L	168000		1	Yes	S3VEM
Iron	Target	8310	J	ug/L	8310	*	1	Yes	S3VEM
Magnesium	Target	50200		ug/L	50200		1	Yes	S3VEM
Potassium	Target	8950		ug/L	8950		1	Yes	S3VEM
Sodium	Target	302000		ug/L	302000	D	5	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P8	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08C-1116	pH:		Sample Date:	11/30/2016	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.065	J	ug/L	0.065	J	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P8	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-08C-1116	pH:		Sample Date:	11/30/2016	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	58.8		ug/L	58.8		1	Yes	S3VEM
Barium	Target	110	J-	ug/L	110	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	19.4		ug/L	19.4		1	Yes	S3VEM
Cobalt	Target	4.1		ug/L	4.1		1	Yes	S3VEM
Copper	Target	10.1		ug/L	10.1		1	Yes	S3VEM
Lead	Target	2.1	J-	ug/L	2.1	*	1	Yes	S3VEM
Manganese	Target	1210	J	ug/L	1210	*D	2	Yes	S3VEM
Nickel	Target	15.7	J	ug/L	15.7	*	1	Yes	S3VEM
Selenium	Target	1.9	J	ug/L	1.9	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.052	J	1	Yes	S3VEM
Vanadium	Target	18.2		ug/L	18.2		1	Yes	S3VEM
Zinc	Target	27.8		ug/L	27.8		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P9	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09A-1116	pH:		Sample Date:	11/28/2016	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8P9	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-09A-1116	pH:	Sample Date: 11/28/2016	Sample Time: 12:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	55.4		ug/L	55.4		1	Yes	S3VEM
Barium	Target	64.4	J-	ug/L	64.4	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.049	J	1	Yes	S3VEM
Chromium	Target	16.2		ug/L	16.2		1	Yes	S3VEM
Cobalt	Target	2.7		ug/L	2.7		1	Yes	S3VEM
Copper	Target	8.6		ug/L	8.6		1	Yes	S3VEM
Lead	Target	1.8	J-	ug/L	1.8	*	1	Yes	S3VEM
Manganese	Target	2570	J	ug/L	2570	*D	5	Yes	S3VEM
Nickel	Target	14.4	J	ug/L	14.4	*	1	Yes	S3VEM
Selenium	Target	2.5	J	ug/L	2.5	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.033	J	1	Yes	S3VEM
Vanadium	Target	13.4	J+	ug/L	13.4		1	Yes	S3VEM
Zinc	Target	13.5		ug/L	13.5		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P9	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09A-1116	pH:		Sample Date:	11/28/2016	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8P9	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09A-1116	pH:		Sample Date:	11/28/2016	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	2940		ug/L	2940		1	Yes	S3VEM
Calcium	Target	293000		ug/L	293000		1	Yes	S3VEM
Iron	Target	5440	J	ug/L	5440	*	1	Yes	S3VEM
Magnesium	Target	167000		ug/L	167000		1	Yes	S3VEM
Potassium	Target	21600		ug/L	21600		1	Yes	S3VEM
Sodium	Target	956000		ug/L	956000	D	10	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q0	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09B-1116	pH:		Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	0.79	J	ug/L	0.79	J	1	Yes	S3VEM
Arsenic	Target	124		ug/L	124		1	Yes	S3VEM
Barium	Target	60.9	J-	ug/L	60.9	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.051	J	1	Yes	S3VEM
Chromium	Target	2.8		ug/L	2.8		1	Yes	S3VEM
Cobalt	Target	0.90	J	ug/L	0.90	J	1	Yes	S3VEM
Copper	Target	2.2		ug/L	2.2		1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.88	J*	1	Yes	S3VEM
Manganese	Target	1900	J	ug/L	1900	*D	2	Yes	S3VEM
Nickel	Target	6.5	J	ug/L	6.5	*	1	Yes	S3VEM
Selenium	Target	2.7	J	ug/L	2.7	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Vanadium	Target	5.9	J+	ug/L	5.9		1	Yes	S3VEM
Zinc	Target	5.9		ug/L	5.9		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number:	MYA8Q0	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09B-1116	pH:		Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	130	J	ug/L	130	J	1	Yes	S3VEM
Calcium	Target	197000		ug/L	197000		1	Yes	S3VEM
Iron	Target	404	J	ug/L	404	*	1	Yes	S3VEM
Magnesium	Target	53000		ug/L	53000		1	Yes	S3VEM
Potassium	Target	9440		ug/L	9440		1	Yes	S3VEM
Sodium	Target	79300		ug/L	79300		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q0	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09B-1116	pH:		Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q0	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09B-1116	pH:		Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q0D	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/28/2016	Sample Time:	11:08:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q0S	Method: Cyanide	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/28/2016	Sample Time: 11:08:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Spike	99.7		ug/L	99.7		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q1	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09C-1116	pH:		Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	289		ug/L	289		1	Yes	S3VEM
Calcium	Target	142000		ug/L	142000		1	Yes	S3VEM
Iron	Target	1050	J	ug/L	1050	*	1	Yes	S3VEM
Magnesium	Target	37800		ug/L	37800		1	Yes	S3VEM
Potassium	Target	5310		ug/L	5310		1	Yes	S3VEM
Sodium	Target	145000		ug/L	145000	D	2	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q1	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09C-1116	pH:		Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q1	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09C-1116	pH:		Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q1	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-09C-1116	pH:		Sample Date:	11/28/2016	Sample Time:	10:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	9.0		ug/L	9.0		1	Yes	S3VEM
Barium	Target	99.7	J-	ug/L	99.7	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	4.1		ug/L	4.1		1	Yes	S3VEM
Cobalt	Target	0.52	J	ug/L	0.52	J	1	Yes	S3VEM
Copper	Target	2.0	U	ug/L	1.2	J	1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.31	J*	1	Yes	S3VEM
Manganese	Target	944	J	ug/L	944	*D	2	Yes	S3VEM
Nickel	Target	3.8	J	ug/L	3.8	*	1	Yes	S3VEM
Selenium	Target	1.5	J	ug/L	1.5	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.016	J	1	Yes	S3VEM
Vanadium	Target	8.4	J+	ug/L	8.4		1	Yes	S3VEM
Zinc	Target	3.4		ug/L	3.4		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q2	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-10-1116	pH:		Sample Date:	11/28/2016	Sample Time:	09:14:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q2	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-10-1116	pH:		Sample Date:	11/28/2016	Sample Time:	09:14:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.061	J	ug/L	0.061	J	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number:	MYA8Q2	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-10-1116	pH:		Sample Date:	11/28/2016	Sample Time:	09:14:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	4640		ug/L	4640		1	Yes	S3VEM
Calcium	Target	192000		ug/L	192000		1	Yes	S3VEM
Iron	Target	9180	J	ug/L	9180	*	1	Yes	S3VEM
Magnesium	Target	51700		ug/L	51700		1	Yes	S3VEM
Potassium	Target	6100		ug/L	6100		1	Yes	S3VEM
Sodium	Target	89900		ug/L	89900		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q2	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-10-1116	pH:	Sample Date: 11/28/2016	Sample Time: 09:14:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	24.7		ug/L	24.7		1	Yes	S3VEM
Barium	Target	209	J-	ug/L	209	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	15.9		ug/L	15.9		1	Yes	S3VEM
Cobalt	Target	4.5		ug/L	4.5		1	Yes	S3VEM
Copper	Target	13.2		ug/L	13.2		1	Yes	S3VEM
Lead	Target	3.3	J-	ug/L	3.3	*	1	Yes	S3VEM
Manganese	Target	871	J	ug/L	871	*D	2	Yes	S3VEM
Nickel	Target	13.2	J	ug/L	13.2	*	1	Yes	S3VEM
Selenium	Target	1.2	J	ug/L	1.2	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.072	J	1	Yes	S3VEM
Vanadium	Target	21.3	J+	ug/L	21.3		1	Yes	S3VEM
Zinc	Target	84.1		ug/L	84.1		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q4	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11A-1116	pH:		Sample Date:	11/29/2016	Sample Time:	12:48:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	2280		ug/L	2280		1	Yes	S3VEM
Calcium	Target	274000		ug/L	274000		1	Yes	S3VEM
Iron	Target	4410	J	ug/L	4410	*	1	Yes	S3VEM
Magnesium	Target	111000		ug/L	111000		1	Yes	S3VEM
Potassium	Target	15700		ug/L	15700		1	Yes	S3VEM
Sodium	Target	396000		ug/L	396000	D	5	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q4	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11A-1116	pH:		Sample Date:	11/29/2016	Sample Time:	12:48:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q4	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-11A-1116	pH:	Sample Date: 11/29/2016	Sample Time: 12:48:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	34.8		ug/L	34.8		1	Yes	S3VEM
Barium	Target	76.9	J-	ug/L	76.9	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	4.6		ug/L	4.6		1	Yes	S3VEM
Cobalt	Target	2.8		ug/L	2.8		1	Yes	S3VEM
Copper	Target	6.7		ug/L	6.7		1	Yes	S3VEM
Lead	Target	1.5	J-	ug/L	1.5	*	1	Yes	S3VEM
Manganese	Target	1800	J	ug/L	1800	*D	2	Yes	S3VEM
Nickel	Target	8.1	J	ug/L	8.1	*	1	Yes	S3VEM
Selenium	Target	3.0	J	ug/L	3.0	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.025	J	1	Yes	S3VEM
Vanadium	Target	10.8		ug/L	10.8		1	Yes	S3VEM
Zinc	Target	12.0		ug/L	12.0		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q5	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11B-1116	pH:		Sample Date:	11/29/2016	Sample Time:	11:03:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	UJ	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	45.4		ug/L	45.4		1	Yes	S3VEM
Barium	Target	42.9	J-	ug/L	42.9	*	1	Yes	S3VEM
Beryllium	Target	1.0	UJ	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	UJ	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	3.8	J	ug/L	3.8		1	Yes	S3VEM
Cobalt	Target	2.0	J	ug/L	2.0		1	Yes	S3VEM
Copper	Target	2.8	J	ug/L	2.8		1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.64	J*	1	Yes	S3VEM
Manganese	Target	3230	J	ug/L	3230	*D	5	Yes	S3VEM
Nickel	Target	6.4	J	ug/L	6.4	*	1	Yes	S3VEM
Selenium	Target	2.9	J	ug/L	2.9	J	1	Yes	S3VEM
Silver	Target	1.0	UJ	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	UJ	ug/L	0.013	J	1	Yes	S3VEM
Vanadium	Target	5.5	J	ug/L	5.5		1	Yes	S3VEM
Zinc	Target	6.9	J	ug/L	6.9		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q5	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11B-1116	pH:		Sample Date:	11/29/2016	Sample Time:	11:03:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q5	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11B-1116	pH:		Sample Date:	11/29/2016	Sample Time:	11:03:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	882		ug/L	882		1	Yes	S3VEM
Calcium	Target	371000		ug/L	371000	D	10	Yes	S3VEM
Iron	Target	3100	J	ug/L	3100	*	1	Yes	S3VEM
Magnesium	Target	187000		ug/L	187000		1	Yes	S3VEM
Potassium	Target	16400		ug/L	16400		1	Yes	S3VEM
Sodium	Target	829000		ug/L	829000	D	10	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q6	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-911B-1116	pH:		Sample Date:	11/29/2016	Sample Time:	11:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	699		ug/L	699		1	Yes	S3VEM
Calcium	Target	367000		ug/L	367000	D	10	Yes	S3VEM
Iron	Target	2630	J	ug/L	2630	*	1	Yes	S3VEM
Magnesium	Target	183000		ug/L	183000		1	Yes	S3VEM
Potassium	Target	15700		ug/L	15700		1	Yes	S3VEM
Sodium	Target	816000		ug/L	816000	D	10	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q6	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-911B-1116	pH:	Sample Date: 11/29/2016	Sample Time: 11:13:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	45.3		ug/L	45.3		1	Yes	S3VEM
Barium	Target	42.5	J-	ug/L	42.5	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	3.6		ug/L	3.6		1	Yes	S3VEM
Cobalt	Target	1.9		ug/L	1.9		1	Yes	S3VEM
Copper	Target	2.4		ug/L	2.4		1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.45	J*	1	Yes	S3VEM
Manganese	Target	3330	J	ug/L	3330	*D	5	Yes	S3VEM
Nickel	Target	6.0	J	ug/L	6.0	*	1	Yes	S3VEM
Selenium	Target	3.1	J	ug/L	3.1	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.014	J	1	Yes	S3VEM
Vanadium	Target	5.0	U	ug/L	4.3	J	1	Yes	S3VEM
Zinc	Target	5.0		ug/L	5.0		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q6	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-911B-1116	pH:		Sample Date:	11/29/2016	Sample Time:	11:13:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q7	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-11C-1116	pH:		Sample Date:	11/29/2016	Sample Time:	09:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-11C-1116	pH:	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	21.0		ug/L	21.0		1	Yes	S3VEM
Barium	Target	49.7	J-	ug/L	49.7	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	4.8		ug/L	4.8		1	Yes	S3VEM
Cobalt	Target	2.5		ug/L	2.5		1	Yes	S3VEM
Copper	Target	3.4		ug/L	3.4		1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.87	J*	1	Yes	S3VEM
Manganese	Target	1560	J	ug/L	1560	*D	5	Yes	S3VEM
Nickel	Target	8.7	J	ug/L	8.7	*	1	Yes	S3VEM
Selenium	Target	3.6	J	ug/L	3.6	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.012	J	1	Yes	S3VEM
Vanadium	Target	5.0	U	ug/L	3.9	J	1	Yes	S3VEM
Zinc	Target	17.2		ug/L	17.2		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location: JWMW-11C-1116	pH:	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	511		ug/L	511		1	Yes	S3VEM
Calcium	Target	693000		ug/L	693000	D	5	Yes	S3VEM
Iron	Target	1940	J	ug/L	1940	*	1	Yes	S3VEM
Magnesium	Target	147000		ug/L	147000		1	Yes	S3VEM
Potassium	Target	11000		ug/L	11000		1	Yes	S3VEM
Sodium	Target	295000		ug/L	295000	D	5	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7A	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Barium	Spike	70.3		ug/L	70.3		1	Yes	S3VEM
Lead	Spike	2.8		ug/L	2.8		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q7D	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/29/2016	Sample Time:	09:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7D	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	539		ug/L	539		1	Yes	S3VEM
Calcium	Target	697000		ug/L	697000	D	5	Yes	S3VEM
Iron	Target	1980		ug/L	1980		1	Yes	S3VEM
Magnesium	Target	152000		ug/L	152000		1	Yes	S3VEM
Potassium	Target	11400		ug/L	11400		1	Yes	S3VEM
Sodium	Target	296000		ug/L	296000	D	5	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7D	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	20.8		ug/L	20.8		1	Yes	S3VEM
Barium	Target	49.3		ug/L	49.3		1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	4.6		ug/L	4.6		1	Yes	S3VEM
Cobalt	Target	2.5		ug/L	2.5		1	Yes	S3VEM
Copper	Target	3.2		ug/L	3.2		1	Yes	S3VEM
Lead	Target	0.79	J	ug/L	0.79	J	1	Yes	S3VEM
Manganese	Target	1610		ug/L	1610	D	5	Yes	S3VEM
Nickel	Target	9.0		ug/L	9.0		1	Yes	S3VEM
Selenium	Target	3.3	J	ug/L	3.3	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	0.075	J	ug/L	0.075	J	1	Yes	S3VEM
Vanadium	Target	4.0	J	ug/L	4.0	J	1	Yes	S3VEM
Zinc	Target	16.6		ug/L	16.6		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI
Sample Number: MYA8Q7L	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	10.0	U	ug/L	10.0	U	5	Yes	S3VEM
Arsenic	Target	22.0		ug/L	22.0		5	Yes	S3VEM
Barium	Target	51.5		ug/L	51.5		5	Yes	S3VEM
Beryllium	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VEM
Cadmium	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VEM
Chromium	Target	5.2	J	ug/L	5.2	J	5	Yes	S3VEM
Cobalt	Target	2.7	J	ug/L	2.7	J	5	Yes	S3VEM
Copper	Target	3.8	J	ug/L	3.8	J	5	Yes	S3VEM
Lead	Target	0.84	J	ug/L	0.84	J	5	Yes	S3VEM
Manganese	Target	1750		ug/L	1750	*	25	Yes	S3VEM
Nickel	Target	10.4		ug/L	10.4	*	5	Yes	S3VEM
Selenium	Target	4.1	J	ug/L	4.1	J	5	Yes	S3VEM
Silver	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VEM
Thallium	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VEM
Vanadium	Target	5.7	J	ug/L	5.7	J	5	Yes	S3VEM
Zinc	Target	13.2		ug/L	13.2		5	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI
Sample Number: MYA8Q7L	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	898	J	ug/L	898	J	5	Yes	S3VEM
Calcium	Target	651000		ug/L	651000		25	Yes	S3VEM
Iron	Target	2180		ug/L	2180	*	5	Yes	S3VEM
Magnesium	Target	156000		ug/L	156000		5	Yes	S3VEM
Potassium	Target	10700	J	ug/L	10700	J	5	Yes	S3VEM
Sodium	Target	271000		ug/L	271000		25	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q7S	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/29/2016	Sample Time:	09:27:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Spike	0.94		ug/L	0.94		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7S	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Spike	2280		ug/L	2280		1	Yes	S3VEM
Iron	Spike	2790		ug/L	2790		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q7S	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/29/2016	Sample Time: 09:27:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Spike	94.1		ug/L	94.1		1	Yes	S3VEM
Arsenic	Spike	61.9		ug/L	61.9		1	Yes	S3VEM
Barium	Spike	565		ug/L	565	*	1	Yes	S3VEM
Beryllium	Spike	49.3		ug/L	49.3		1	Yes	S3VEM
Cadmium	Spike	45.7		ug/L	45.7		1	Yes	S3VEM
Chromium	Spike	192		ug/L	192		1	Yes	S3VEM
Cobalt	Spike	487		ug/L	487		1	Yes	S3VEM
Copper	Spike	235		ug/L	235		1	Yes	S3VEM
Lead	Spike	9.9		ug/L	9.9	*	1	Yes	S3VEM
Manganese	Spike	2010		ug/L	2010	D	5	Yes	S3VEM
Nickel	Spike	473		ug/L	473		1	Yes	S3VEM
Selenium	Spike	104		ug/L	104		1	Yes	S3VEM
Silver	Spike	45.4		ug/L	45.4		1	Yes	S3VEM
Thallium	Spike	46.5		ug/L	46.5		1	Yes	S3VEM
Vanadium	Spike	495		ug/L	495		1	Yes	S3VEM
Zinc	Spike	491		ug/L	491		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q8	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-12-1116	pH:		Sample Date:	11/29/2016	Sample Time:	08:11:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	MYA8Q8	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-12-1116	pH:		Sample Date:	11/29/2016	Sample Time:	08:11:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	446		ug/L	446		1	Yes	S3VEM
Calcium	Target	828000		ug/L	828000	D	5	Yes	S3VEM
Iron	Target	952	J	ug/L	952	*	1	Yes	S3VEM
Magnesium	Target	149000		ug/L	149000		1	Yes	S3VEM
Potassium	Target	8350		ug/L	8350		1	Yes	S3VEM
Sodium	Target	427000		ug/L	427000	D	5	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: MYA8Q8	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-12-1116	pH:	Sample Date: 11/29/2016	Sample Time: 08:11:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	9.6		ug/L	9.6		1	Yes	S3VEM
Barium	Target	55.5	J-	ug/L	55.5	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.16	J	1	Yes	S3VEM
Chromium	Target	5.5		ug/L	5.5		1	Yes	S3VEM
Cobalt	Target	1.5		ug/L	1.5		1	Yes	S3VEM
Copper	Target	3.1		ug/L	3.1		1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.56	J*	1	Yes	S3VEM
Manganese	Target	750	J	ug/L	750	*	1	Yes	S3VEM
Nickel	Target	8.4	J	ug/L	8.4	*	1	Yes	S3VEM
Selenium	Target	3.2	J	ug/L	3.2	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.056	J	1	Yes	S3VEM
Vanadium	Target	10.5		ug/L	10.5		1	Yes	S3VEM
Zinc	Target	2.8		ug/L	2.8		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N5	Lab Code:	EQI
Sample Number:	PBW001	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: PBW001	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VEM
Calcium	Target	5000	U	ug/L	5000	U	1	Yes	S3VEM
Iron	Target	100	U	ug/L	100	U	1	Yes	S3VEM
Magnesium	Target	5000	U	ug/L	5000	U	1	Yes	S3VEM
Potassium	Target	5000	U	ug/L	3290	J	1	Yes	S3VEM
Sodium	Target	5000	U	ug/L	2550	J	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI

Sample Number: PBW001	Method: Cyanide	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N5	Lab Code: EQI
Sample Number: PBW010	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	1.0	U	ug/L	0.54	J	1	Yes	S3VEM
Barium	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	2.0	U	ug/L	0.51	J	1	Yes	S3VEM
Cobalt	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Copper	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Lead	Target	1.0	U	ug/L	0.048	J	1	Yes	S3VEM
Manganese	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Nickel	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Selenium	Target	5.0	U	ug/L	5.0	U	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	0.056	J	1	Yes	S3VEM
Vanadium	Target	5.0	U	ug/L	3.9	J	1	Yes	S3VEM
Zinc	Target	2.0	U	ug/L	-1.2	J	1	Yes	S3VEM

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 2, SFD-7-2 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106150
Date:	March 3, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B Webb Company
Site Account No.:	09 WR QB 00
Case No.:	46660
SDG No.:	MYA8N6
Laboratory:	Shealy Environmental Services, Inc. (EQI)
Analysis:	CLP Metals by ICP-AES and ICP-MS, Mercury by CVAA, and Cyanide
Samples:	3 Groundwater Samples
Collection Date:	November 30 and December 1, 2016
Reviewer:	Anna Pajarillo, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Cynthia Gurley, CLP PO USEPA Region 4

CLP PO: [ ] FYI [X] Action

SAMPLING ISSUES: [] Yes [X] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report – **Tier 3**

Case No.: 46660
SDG No.: MYA8N6
Site: Jervis B Webb Company
Laboratory: Shealy Environmental Services, Inc. (EQI)
Analysis: CLP Metals by ICP-AES and ICP-MS, Mercury by CVAA, and Cyanide
Reviewer: Anna Pajarillo, ESAT
Date: March 3, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Inorganic Analytical Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in page 6 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	None.
Background Samples (BG):	None.
Field Duplicates (D1):	MYA8P3 and MYA8P4.

CLP PO Action

The laboratory analyzed the post digestion spike for barium with added concentration of two times the contract required quantitation limit (CRQL) instead of two times the sample concentration. See CLP SOW ISM02.3 (09/2015) Exhibit D Page D-25/ICP-MS Section 12.3.3.3.

Sampling Issues

None.

Additional Comments

The samples were analyzed for Contract Laboratory Program (CLP) metals and cyanide. Aluminum, calcium, iron, magnesium, potassium, and sodium were analyzed by Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES). Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc were analyzed by Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS). Mercury was analyzed by Cold Vapor Atomic Absorption (CVAA). Cyanide was analyzed by spectrophotometry.

All standards and spiking solutions were analyzed before the expiration date.

This report was prepared in accordance with the following documents:
- *USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)*, ISM02.3, September 2015 and
- *USEPA National Functional Guidelines for Inorganic Superfund Data Review*, August 2014.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)*, ISM02.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1.	Data Completeness	Yes	
2.	Preservation and Holding Times	Yes	
3.	ICP-MS Tune Analysis	Yes	
4.	Calibration	Yes	
	a. Initial	Yes	
	b. Initial and Continuing Calibration Verification	Yes	
5.	Laboratory Blanks	Yes	B
6.	Field/Equipment Blanks	Yes	
7.	ICP Interference Check Sample (ICS)	Yes	
8.	Laboratory Control Sample (LCS)	Yes	
9.	Duplicate Sample Analysis	Yes	
10.	Spike Sample Analysis	No	C
11.	ICP Serial Dilution	No	D
12.	ICP-MS Internal Standards	Yes	
13.	Compound Quantitation	Yes	A, E
14.	Field Duplicate Sample Analysis	Yes	
15.	Overall Assessment of Data	Yes	

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The following results are qualified as non-detected (U) due to low level initial calibration blank (ICB), continuing calibration blank (CCB), and preparation blank (PBW) contamination.

- Cadmium, lead, and vanadium in all field samples.
- Chromium in preparation blank PBW002.
- Potassium in samples MYA8P3 and MYA8P4.

Analyte amounts greater than the MDL but less than the CRQL were reported in the calibration blanks and preparation blank at the concentrations presented below.

Analyte	Blank	Concentration, µg/L
Cadmium	CCB004	0.043
Chromium	CCB002/CCB003	0.079/0.068
Lead	ICB001/CCB002/CCB003/CCB004	0.040/0.049/0.041/0.046
Potassium	ICB096/CCB097	310/531
Vanadium	PBW002	2.2

Sample results that are greater than or equal to the MDL but less than or equal to the CRQL are reported as non-detected (U) at the respective CRQL.

C. The following results are estimated and flagged "J-" or "UJ" because matrix spike recoveries are outside method QC limit.

- Barium and lead in all field samples.

Matrix spike recoveries for barium and lead in QC sample MYA8N6S do not meet the 75-

125% criterion for accuracy as presented below.

Analyte	% Recovery
Barium	54
Lead	73

The detected results for barium in all field samples are considered quantitatively uncertain and may be biased low. Where qualified results are nondetects, false negatives may exist.

The following post-digestion spike recovery was reported for lead in QC sample MYA8N6A. Post-digestion spike recoveries do not reflect the entire sample preparation and analysis; the impact on reported results cannot be determined. Qualification is based on the matrix spike recovery only.

Analyte	Post-Digestion Spike, % Recovery
Lead	101

Since post-digestion spike recovery is acceptable, the unacceptable pre-digestion spike recovery may indicate poor laboratory technique or matrix effects which may interfere with the analysis.

A valid post-digestion spike for barium is not available (see CLP PO Action).

D. The following detected results are estimated and flagged "J" because a serial dilution result is outside method QC limit.

- Nickel in all field samples.

The percent difference for serial dilution analysis of MYA8N6L does not meet the 10% difference criterion for the analyte presented below.

Analyte	% Difference
Nickel	34

Detected results for nickel are considered quantitatively uncertain. Chemical and physical interferences may exist due to sample matrix effects. Since the result for the diluted sample is higher than the original, the reported results may be biased low.

E. The samples listed in the table below required dilution to obtain results within the calibration range for the indicated elements. Results for these elements are reported from the indicated dilutions and the CRQL adjusted accordingly.

Sample(s)	Dilution Factor	Associated Element(s)
MYA8N6	20	Calcium, Sodium
MYA8P3, MYA8P4	2.0	Sodium
MYA8N6	5.0	Manganese

TABLE 1

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Inorganic Superfund Data Review," August 2014 (Table 1, page 6).

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

Sample Summary Report

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	LCS002	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	3.9		ug/L	3.9		1	Yes	S3VE
Arsenic	Target	2.6		ug/L	2.6		1	Yes	S3VE
Barium	Target	19.0		ug/L	19.0		1	Yes	S3VE
Beryllium	Target	2.0		ug/L	2.0		1	Yes	S3VE
Cadmium	Target	1.9		ug/L	1.9		1	Yes	S3VE
Chromium	Target	3.9		ug/L	3.9		1	Yes	S3VE
Cobalt	Target	1.8		ug/L	1.8		1	Yes	S3VE
Copper	Target	4.2		ug/L	4.2		1	Yes	S3VE
Lead	Target	1.8		ug/L	1.8		1	Yes	S3VE
Manganese	Target	1.7		ug/L	1.7		1	Yes	S3VE
Nickel	Target	2.0		ug/L	2.0		1	Yes	S3VE
Selenium	Target	10.1		ug/L	10.1		1	Yes	S3VE
Silver	Target	2.1		ug/L	2.1		1	Yes	S3VE
Thallium	Target	1.9		ug/L	1.9		1	Yes	S3VE
Vanadium	Target	10.2		ug/L	10.2		1	Yes	S3VE
Zinc	Target	4.1		ug/L	4.1		1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: LCS002	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	415		ug/L	415		1	Yes	S3VE
Calcium	Target	10200		ug/L	10200		1	Yes	S3VE
Iron	Target	176		ug/L	176		1	Yes	S3VE
Magnesium	Target	10200		ug/L	10200		1	Yes	S3VE
Potassium	Target	10100		ug/L	10100		1	Yes	S3VE
Sodium	Target	10100		ug/L	10100		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-05-1116	pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VE
Calcium	Target	411000		ug/L	411000	D	20	Yes	S3VE
Iron	Target	5650		ug/L	5650		1	Yes	S3VE
Magnesium	Target	168000		ug/L	168000		1	Yes	S3VE
Potassium	Target	13000		ug/L	13000		1	Yes	S3VE
Sodium	Target	1430000		ug/L	1430000	D	20	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-05-1116	pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-05-1116	pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-05-1116	pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	42.0		ug/L	42.0		1	Yes	S3VE
Barium	Target	27.9	J	ug/L	27.9	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.14	J	1	Yes	S3VE
Chromium	Target	3.1	J	ug/L	3.1	*	1	Yes	S3VE
Cobalt	Target	0.54	J	ug/L	0.54	J	1	Yes	S3VE
Copper	Target	1.3	J	ug/L	1.3	J	1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.28	J*	1	Yes	S3VE
Manganese	Target	2630		ug/L	2630	D	5	Yes	S3VE
Nickel	Target	7.7	J	ug/L	7.7	*	1	Yes	S3VE
Selenium	Target	4.2	J	ug/L	4.2	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Vanadium	Target	5.0	U	ug/L	2.6	J	1	Yes	S3VE
Zinc	Target	3.6		ug/L	3.6		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6A	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Barium	Spike	46.6		ug/L	46.6		1	Yes	S3VE
Lead	Spike	2.3		ug/L	2.3		1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: MYA8N6D	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VE
Calcium	Target	401000		ug/L	401000	D	20	Yes	S3VE
Iron	Target	5640		ug/L	5640		1	Yes	S3VE
Magnesium	Target	169000		ug/L	169000		1	Yes	S3VE
Potassium	Target	14100		ug/L	14100		1	Yes	S3VE
Sodium	Target	1370000		ug/L	1370000	D	20	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6D	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6D	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	43.0		ug/L	43.0		1	Yes	S3VE
Barium	Target	28.3		ug/L	28.3		1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	0.11	J	ug/L	0.11	J	1	Yes	S3VE
Chromium	Target	3.2		ug/L	3.2		1	Yes	S3VE
Cobalt	Target	0.57	J	ug/L	0.57	J	1	Yes	S3VE
Copper	Target	1.2	J	ug/L	1.2	J	1	Yes	S3VE
Lead	Target	0.30	J	ug/L	0.30	J	1	Yes	S3VE
Manganese	Target	2640		ug/L	2640	D	5	Yes	S3VE
Nickel	Target	7.6		ug/L	7.6		1	Yes	S3VE
Selenium	Target	3.9	J	ug/L	3.9	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	0.047	J	ug/L	0.047	J	1	Yes	S3VE
Vanadium	Target	2.8	J	ug/L	2.8	J	1	Yes	S3VE
Zinc	Target	3.6		ug/L	3.6		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6D	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI
Sample Number: MYA8N6L	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	1000	U	ug/L	1000	U	5	Yes	S3VE
Calcium	Target	388000	J	ug/L	388000	J	100	Yes	S3VE
Iron	Target	5770		ug/L	5770		5	Yes	S3VE
Magnesium	Target	171000		ug/L	171000		5	Yes	S3VE
Potassium	Target	14300	J	ug/L	14300	J	5	Yes	S3VE
Sodium	Target	1370000		ug/L	1370000		100	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI
Sample Number: MYA8N6L	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	10.0	U	ug/L	10.0	U	5	Yes	S3VE
Arsenic	Target	45.4		ug/L	45.4		5	Yes	S3VE
Barium	Target	29.7	J	ug/L	29.7	J	5	Yes	S3VE
Beryllium	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VE
Cadmium	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VE
Chromium	Target	3.6	J	ug/L	3.6	J*	5	Yes	S3VE
Cobalt	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VE
Copper	Target	2.0	J	ug/L	2.0	J	5	Yes	S3VE
Lead	Target	0.31	J	ug/L	0.31	J	5	Yes	S3VE
Manganese	Target	2620		ug/L	2620		25	Yes	S3VE
Nickel	Target	10.3		ug/L	10.3	*	5	Yes	S3VE
Selenium	Target	3.7	J	ug/L	3.7	J	5	Yes	S3VE
Silver	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VE
Thallium	Target	0.060	J	ug/L	0.060	J	5	Yes	S3VE
Vanadium	Target	5.1	J	ug/L	5.1	J	5	Yes	S3VE
Zinc	Target	5.5	J	ug/L	5.5	J	5	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6S	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Spike	0.94		ug/L	0.94		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6S	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Spike	95.8		ug/L	95.8		1	Yes	S3VE
Arsenic	Spike	80.2		ug/L	80.2		1	Yes	S3VE
Barium	Spike	1110		ug/L	1110	*	1	Yes	S3VE
Beryllium	Spike	54.8		ug/L	54.8		1	Yes	S3VE
Cadmium	Spike	42.8		ug/L	42.8		1	Yes	S3VE
Chromium	Spike	195		ug/L	195		1	Yes	S3VE
Cobalt	Spike	487		ug/L	487		1	Yes	S3VE
Copper	Spike	223		ug/L	223		1	Yes	S3VE
Lead	Spike	14.9		ug/L	14.9	*	1	Yes	S3VE
Manganese	Spike	3160		ug/L	3160	D	5	Yes	S3VE
Nickel	Spike	470		ug/L	470		1	Yes	S3VE
Selenium	Spike	101		ug/L	101		1	Yes	S3VE
Silver	Spike	42.6		ug/L	42.6		1	Yes	S3VE
Thallium	Spike	45.7		ug/L	45.7		1	Yes	S3VE
Vanadium	Spike	514		ug/L	514		1	Yes	S3VE
Zinc	Spike	412		ug/L	412		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6S	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Spike	92.5		ug/L	92.5		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8P3	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07C-1116	pH:		Sample Date:	12/01/2016	Sample Time:	23:36:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VE
Calcium	Target	158000		ug/L	158000		1	Yes	S3VE
Iron	Target	1410		ug/L	1410		1	Yes	S3VE
Magnesium	Target	40500		ug/L	40500		1	Yes	S3VE
Potassium	Target	5000	U	ug/L	3930	J	1	Yes	S3VE
Sodium	Target	163000		ug/L	163000	D	2	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8P3	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07C-1116	pH:		Sample Date:	12/01/2016	Sample Time:	23:36:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	6.3		ug/L	6.3		1	Yes	S3VE
Barium	Target	143	J	ug/L	143	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.082	J	1	Yes	S3VE
Chromium	Target	2.8	J	ug/L	2.8	*	1	Yes	S3VE
Cobalt	Target	0.68	J	ug/L	0.68	J	1	Yes	S3VE
Copper	Target	0.69	J	ug/L	0.69	J	1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.10	J*	1	Yes	S3VE
Manganese	Target	650		ug/L	650		1	Yes	S3VE
Nickel	Target	5.1	J	ug/L	5.1	*	1	Yes	S3VE
Selenium	Target	1.5	J	ug/L	1.5	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Vanadium	Target	5.0	U	ug/L	4.0	J	1	Yes	S3VE
Zinc	Target	3.1		ug/L	3.1		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8P3	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07C-1116	pH:		Sample Date:	12/01/2016	Sample Time:	23:36:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8P4	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-97C-1116	pH:		Sample Date:	12/01/2016	Sample Time:	23:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VE
Calcium	Target	168000		ug/L	168000		1	Yes	S3VE
Iron	Target	1430		ug/L	1430		1	Yes	S3VE
Magnesium	Target	42700		ug/L	42700		1	Yes	S3VE
Potassium	Target	5000	U	ug/L	3930	J	1	Yes	S3VE
Sodium	Target	173000		ug/L	173000	D	2	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8P4	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-97C-1116	pH:		Sample Date:	12/01/2016	Sample Time:	23:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	6.3		ug/L	6.3		1	Yes	S3VE
Barium	Target	145	J	ug/L	145	*	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	0.087	J	1	Yes	S3VE
Chromium	Target	3.0	J	ug/L	3.0	*	1	Yes	S3VE
Cobalt	Target	0.70	J	ug/L	0.70	J	1	Yes	S3VE
Copper	Target	0.56	J	ug/L	0.56	J	1	Yes	S3VE
Lead	Target	1.0	UJ	ug/L	0.037	J*	1	Yes	S3VE
Manganese	Target	630		ug/L	630		1	Yes	S3VE
Nickel	Target	4.8	J	ug/L	4.8	*	1	Yes	S3VE
Selenium	Target	2.0	J	ug/L	2.0	J	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Vanadium	Target	5.0	U	ug/L	4.5	J	1	Yes	S3VE
Zinc	Target	2.2		ug/L	2.2		1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8P4	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-97C-1116	pH:		Sample Date:	12/01/2016	Sample Time:	23:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: PBW002	Method: Cyanide	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI
Sample Number: PBW002	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VE
Calcium	Target	5000	U	ug/L	5000	U	1	Yes	S3VE
Iron	Target	55.9	J	ug/L	55.9	J	1	Yes	S3VE
Magnesium	Target	5000	U	ug/L	5000	U	1	Yes	S3VE
Potassium	Target	5000	U	ug/L	5000	U	1	Yes	S3VE
Sodium	Target	5000	U	ug/L	5000	U	1	Yes	S3VE

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI
Sample Number: PBW002	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Arsenic	Target	0.84	J	ug/L	0.84	J	1	Yes	S3VE
Barium	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VE
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Chromium	Target	0.25	J	ug/L	0.25	J	1	Yes	S3VE
Cobalt	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Copper	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE
Lead	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Manganese	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Nickel	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Selenium	Target	5.0	U	ug/L	5.0	U	1	Yes	S3VE
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VE
Vanadium	Target	2.2	J	ug/L	2.2	J	1	Yes	S3VE
Zinc	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VE

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	PBW002	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VE

Sample Summary Report

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	LCS002	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	3.9		ug/L	3.9		1	Yes	S3VEM
Arsenic	Target	2.6		ug/L	2.6		1	Yes	S3VEM
Barium	Target	19.0		ug/L	19.0		1	Yes	S3VEM
Beryllium	Target	2.0		ug/L	2.0		1	Yes	S3VEM
Cadmium	Target	1.9		ug/L	1.9		1	Yes	S3VEM
Chromium	Target	3.9		ug/L	3.9		1	Yes	S3VEM
Cobalt	Target	1.8		ug/L	1.8		1	Yes	S3VEM
Copper	Target	4.2		ug/L	4.2		1	Yes	S3VEM
Lead	Target	1.8		ug/L	1.8		1	Yes	S3VEM
Manganese	Target	1.7		ug/L	1.7		1	Yes	S3VEM
Nickel	Target	2.0		ug/L	2.0		1	Yes	S3VEM
Selenium	Target	10.1		ug/L	10.1		1	Yes	S3VEM
Silver	Target	2.1		ug/L	2.1		1	Yes	S3VEM
Thallium	Target	1.9		ug/L	1.9		1	Yes	S3VEM
Vanadium	Target	10.2		ug/L	10.2		1	Yes	S3VEM
Zinc	Target	4.1		ug/L	4.1		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: LCS002	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	415		ug/L	415		1	Yes	S3VEM
Calcium	Target	10200		ug/L	10200		1	Yes	S3VEM
Iron	Target	176		ug/L	176		1	Yes	S3VEM
Magnesium	Target	10200		ug/L	10200		1	Yes	S3VEM
Potassium	Target	10100		ug/L	10100		1	Yes	S3VEM
Sodium	Target	10100		ug/L	10100		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:	JWMW-05-1116	pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-05-1116	pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-05-1116	pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VEM
Calcium	Target	411000		ug/L	411000	D	20	Yes	S3VEM
Iron	Target	5650		ug/L	5650		1	Yes	S3VEM
Magnesium	Target	168000		ug/L	168000		1	Yes	S3VEM
Potassium	Target	13000		ug/L	13000		1	Yes	S3VEM
Sodium	Target	1430000		ug/L	1430000	D	20	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: MYA8N6	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-05-1116	pH:	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	42.0		ug/L	42.0		1	Yes	S3VEM
Barium	Target	27.9	J-	ug/L	27.9	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.14	J	1	Yes	S3VEM
Chromium	Target	3.1		ug/L	3.1	*	1	Yes	S3VEM
Cobalt	Target	0.54	J	ug/L	0.54	J	1	Yes	S3VEM
Copper	Target	1.3	J	ug/L	1.3	J	1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.28	J*	1	Yes	S3VEM
Manganese	Target	2630		ug/L	2630	D	5	Yes	S3VEM
Nickel	Target	7.7	J	ug/L	7.7	*	1	Yes	S3VEM
Selenium	Target	4.2	J	ug/L	4.2	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Vanadium	Target	5.0	U	ug/L	2.6	J	1	Yes	S3VEM
Zinc	Target	3.6		ug/L	3.6		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: MYA8N6A	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Barium	Spike	46.6		ug/L	46.6		1	Yes	S3VEM
Lead	Spike	2.3		ug/L	2.3		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI
Sample Number: MYA8N6D	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	43.0		ug/L	43.0		1	Yes	S3VEM
Barium	Target	28.3		ug/L	28.3		1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	0.11	J	ug/L	0.11	J	1	Yes	S3VEM
Chromium	Target	3.2		ug/L	3.2		1	Yes	S3VEM
Cobalt	Target	0.57	J	ug/L	0.57	J	1	Yes	S3VEM
Copper	Target	1.2	J	ug/L	1.2	J	1	Yes	S3VEM
Lead	Target	0.30	J	ug/L	0.30	J	1	Yes	S3VEM
Manganese	Target	2640		ug/L	2640	D	5	Yes	S3VEM
Nickel	Target	7.6		ug/L	7.6		1	Yes	S3VEM
Selenium	Target	3.9	J	ug/L	3.9	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	0.047	J	ug/L	0.047	J	1	Yes	S3VEM
Vanadium	Target	2.8	J	ug/L	2.8	J	1	Yes	S3VEM
Zinc	Target	3.6		ug/L	3.6		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6D	Method:	Cyanide	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: MYA8N6D	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VEM
Calcium	Target	401000		ug/L	401000	D	20	Yes	S3VEM
Iron	Target	5640		ug/L	5640		1	Yes	S3VEM
Magnesium	Target	169000		ug/L	169000		1	Yes	S3VEM
Potassium	Target	14100		ug/L	14100		1	Yes	S3VEM
Sodium	Target	1370000		ug/L	1370000	D	20	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6D	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI
Sample Number: MYA8N6L	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	10.0	U	ug/L	10.0	U	5	Yes	S3VEM
Arsenic	Target	45.4		ug/L	45.4		5	Yes	S3VEM
Barium	Target	29.7	J	ug/L	29.7	J	5	Yes	S3VEM
Beryllium	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VEM
Cadmium	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VEM
Chromium	Target	3.6	J	ug/L	3.6	J*	5	Yes	S3VEM
Cobalt	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VEM
Copper	Target	2.0	J	ug/L	2.0	J	5	Yes	S3VEM
Lead	Target	0.31	J	ug/L	0.31	J	5	Yes	S3VEM
Manganese	Target	2620		ug/L	2620		25	Yes	S3VEM
Nickel	Target	10.3		ug/L	10.3	*	5	Yes	S3VEM
Selenium	Target	3.7	J	ug/L	3.7	J	5	Yes	S3VEM
Silver	Target	5.0	U	ug/L	5.0	U	5	Yes	S3VEM
Thallium	Target	0.060	J	ug/L	0.060	J	5	Yes	S3VEM
Vanadium	Target	5.1	J	ug/L	5.1	J	5	Yes	S3VEM
Zinc	Target	5.5	J	ug/L	5.5	J	5	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI
Sample Number: MYA8N6L	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	1000	U	ug/L	1000	U	5	Yes	S3VEM
Calcium	Target	388000	J	ug/L	388000	J	100	Yes	S3VEM
Iron	Target	5770		ug/L	5770		5	Yes	S3VEM
Magnesium	Target	171000		ug/L	171000		5	Yes	S3VEM
Potassium	Target	14300	J	ug/L	14300	J	5	Yes	S3VEM
Sodium	Target	1370000		ug/L	1370000		100	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: MYA8N6S	Method: Cyanide	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Spike	92.5		ug/L	92.5		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: MYA8N6S	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Spike	95.8		ug/L	95.8		1	Yes	S3VEM
Arsenic	Spike	80.2		ug/L	80.2		1	Yes	S3VEM
Barium	Spike	1110		ug/L	1110	*	1	Yes	S3VEM
Beryllium	Spike	54.8		ug/L	54.8		1	Yes	S3VEM
Cadmium	Spike	42.8		ug/L	42.8		1	Yes	S3VEM
Chromium	Spike	195		ug/L	195		1	Yes	S3VEM
Cobalt	Spike	487		ug/L	487		1	Yes	S3VEM
Copper	Spike	223		ug/L	223		1	Yes	S3VEM
Lead	Spike	14.9		ug/L	14.9	*	1	Yes	S3VEM
Manganese	Spike	3160		ug/L	3160	D	5	Yes	S3VEM
Nickel	Spike	470		ug/L	470		1	Yes	S3VEM
Selenium	Spike	101		ug/L	101		1	Yes	S3VEM
Silver	Spike	42.6		ug/L	42.6		1	Yes	S3VEM
Thallium	Spike	45.7		ug/L	45.7		1	Yes	S3VEM
Vanadium	Spike	514		ug/L	514		1	Yes	S3VEM
Zinc	Spike	412		ug/L	412		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: MYA8N6S	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 11/30/2016	Sample Time: 07:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Spike	2000		ug/L	2000		1	Yes	S3VEM
Iron	Spike	6390		ug/L	6390		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8N6S	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:	11/30/2016	Sample Time:	07:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Spike	0.94		ug/L	0.94		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8P3	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07C-1116	pH:		Sample Date:	12/01/2016	Sample Time:	23:36:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VEM
Calcium	Target	158000		ug/L	158000		1	Yes	S3VEM
Iron	Target	1410		ug/L	1410		1	Yes	S3VEM
Magnesium	Target	40500		ug/L	40500		1	Yes	S3VEM
Potassium	Target	5000	U	ug/L	3930	J	1	Yes	S3VEM
Sodium	Target	163000		ug/L	163000	D	2	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8P3	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07C-1116	pH:		Sample Date:	12/01/2016	Sample Time:	23:36:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8P3	Method:	Metals by ICP-MS	Matrix:	Water	MA Number:	
Sample Location:	JWMW-07C-1116	pH:		Sample Date:	12/01/2016	Sample Time:	23:36:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	6.3		ug/L	6.3		1	Yes	S3VEM
Barium	Target	143	J-	ug/L	143	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.082	J	1	Yes	S3VEM
Chromium	Target	2.8		ug/L	2.8	*	1	Yes	S3VEM
Cobalt	Target	0.68	J	ug/L	0.68	J	1	Yes	S3VEM
Copper	Target	0.69	J	ug/L	0.69	J	1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.10	J*	1	Yes	S3VEM
Manganese	Target	650		ug/L	650		1	Yes	S3VEM
Nickel	Target	5.1	J	ug/L	5.1	*	1	Yes	S3VEM
Selenium	Target	1.5	J	ug/L	1.5	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Vanadium	Target	5.0	U	ug/L	4.0	J	1	Yes	S3VEM
Zinc	Target	3.1		ug/L	3.1		1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: MYA8P4	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location: JWMW-97C-1116	pH:	Sample Date: 12/01/2016	Sample Time: 23:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	6.3		ug/L	6.3		1	Yes	S3VEM
Barium	Target	145	J-	ug/L	145	*	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	0.087	J	1	Yes	S3VEM
Chromium	Target	3.0		ug/L	3.0	*	1	Yes	S3VEM
Cobalt	Target	0.70	J	ug/L	0.70	J	1	Yes	S3VEM
Copper	Target	0.56	J	ug/L	0.56	J	1	Yes	S3VEM
Lead	Target	1.0	UJ	ug/L	0.037	J*	1	Yes	S3VEM
Manganese	Target	630		ug/L	630		1	Yes	S3VEM
Nickel	Target	4.8	J	ug/L	4.8	*	1	Yes	S3VEM
Selenium	Target	2.0	J	ug/L	2.0	J	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Vanadium	Target	5.0	U	ug/L	4.5	J	1	Yes	S3VEM
Zinc	Target	2.2		ug/L	2.2		1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8P4	Method:	Metals by ICP-AES	Matrix:	Water	MA Number:	
Sample Location:	JWMW-97C-1116	pH:		Sample Date:	12/01/2016	Sample Time:	23:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VEM
Calcium	Target	168000		ug/L	168000		1	Yes	S3VEM
Iron	Target	1430		ug/L	1430		1	Yes	S3VEM
Magnesium	Target	42700		ug/L	42700		1	Yes	S3VEM
Potassium	Target	5000	U	ug/L	3930	J	1	Yes	S3VEM
Sodium	Target	173000		ug/L	173000	D	2	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	MYA8P4	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:	JWMW-97C-1116	pH:		Sample Date:	12/01/2016	Sample Time:	23:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No:	46660	Contract:	EPW14035	SDG No:	MYA8N6	Lab Code:	EQI
Sample Number:	PBW002	Method:	Mercury by Cold Vapor	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	ug/L	0.20	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI
Sample Number: PBW002	Method: Metals by ICP-MS	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Antimony	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Arsenic	Target	0.84	J	ug/L	0.84	J	1	Yes	S3VEM
Barium	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM
Beryllium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Cadmium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Chromium	Target	2.0	U	ug/L	0.25	J	1	Yes	S3VEM
Cobalt	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Copper	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM
Lead	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Manganese	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Nickel	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Selenium	Target	5.0	U	ug/L	5.0	U	1	Yes	S3VEM
Silver	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Thallium	Target	1.0	U	ug/L	1.0	U	1	Yes	S3VEM
Vanadium	Target	2.2	J	ug/L	2.2	J	1	Yes	S3VEM
Zinc	Target	2.0	U	ug/L	2.0	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: PBW002	Method: Cyanide	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyanide	Target	10.0	U	ug/L	10.0	U	1	Yes	S3VEM

Case No: 46660	Contract: EPW14035	SDG No: MYA8N6	Lab Code: EQI

Sample Number: PBW002	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1	Yes	S3VEM
Calcium	Target	5000	U	ug/L	5000	U	1	Yes	S3VEM
Iron	Target	55.9	J	ug/L	55.9	J	1	Yes	S3VEM
Magnesium	Target	5000	U	ug/L	5000	U	1	Yes	S3VEM
Potassium	Target	5000	U	ug/L	5000	U	1	Yes	S3VEM
Sodium	Target	5000	U	ug/L	5000	U	1	Yes	S3VEM

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 2, SFD-7-2 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106167
Date:	July 6, 2017
Re:	Review of Analytical Data, **Tier 3**

JEIDELBE Digitally signed by JEIDELBE Date: 2017.07.10 15:34:28 -07'00'

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B Webb Company
Site Account No.:	09 WR QB 00
Case No.:	46927
SDG No.:	YABH1
Laboratory:	Shealy Environmental Services, Inc. (EQI)
Analysis:	CLP Trace Volatiles
Samples:	13 Groundwater Samples
Collection Date:	May 3 and 4, 2017
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Cynthia Gurley, CLP PO USEPA Region 4

CLP PO: [ ] FYI [X] Action

SAMPLING ISSUES: [X] Yes [ ] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46927
SDG No.: YABH1
Site: Jervis B Webb Company
Laboratory: Shealy Environmental Services (EQI)
Analysis: CLP Trace Volatiles
Reviewer: Santiago Lee, ESAT
Date: July 6, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	None.
Trip Blanks (TB):	YABH1 and YABH8.
Background Samples (BG):	None.
Field Duplicates (D1):	YABF5 and YABF6.
Field Duplicates (D2):	YABH9 and YABJ0.

CLP PO Action

The laboratory did not analyze an instrument blank following samples containing target analytes exceeding the calibration range, which is required by the Statement of Work (SOW). Sample YABJ4 was reanalyzed to demonstrate the absence of carryover. There is no evidence of carryover; results for the reanalysis of YABJ4 are reported in the EXES Data Manager.

Sampling Issues

1. The laboratory indicated in the SDG Narrative and the sample log-in sheet that all three vials for sample YABG1 were received broken and all three vials for trip blanks YABH1 and YABHY8 contained “air bubbles greater than 6 mm.”
2. The sample log-in sheet indicates that one vial for sample YABJ2 contained an air bubble; a vial without an air bubble was analyzed.

Additional Comments

Sample YABH6 was initially analyze undiluted and re-analyzed at a 10-fold dilution due to the cis-1,2-dichloroethene (1,2-DCE) concentration exceeding the calibration range. Results for YABH6 were reported incorrectly in the EXES Data Manager; the cis-1,2-DCE result was reported from the “Initial” analysis and all other results were reported from the “Dilution-01” analysis. The reviewer updated EXES Data Manager to report cis-1,2-DCE result from the “Dilution-01” and all other results from the “Initial” analysis.

Samples YABF5, YABF6, and YABH7 were analyzed at 200-fold dilutions due to high levels of target analytes. The quantitation limits for these samples have been raised to account for the dilution.

No sample was designated for “Lab QC” on chain of custody records (COCs) and extra sample volume for matrix spike/matrix spike duplicate (MS/MSD) analysis was not provided (only three vials were collected for each sample). The MS/MSD analysis was not performed.

The preparation logbook pages for some solutions and the mass spectra for the additional analyte in initial calibrations were missing from the data package. A Communication Record Log (CRL) was sent to the laboratory requesting the information. Data quality is not likely to be affected and this report is considered final.

In addition to laboratory artifacts (retention times of 1.7, 6.1, 8.7, 9.7, 10.6, 11.9, 13.3, 13.8, 14.9 and 15.9 minutes), tentatively identified compounds (TICs) were found in samples YABF8, YABH6, YABJ2, YABJ3, and YABJ4 (see attached Form 1Bs).

The laboratory performed manual peak integration for some calibration and sample chromatograms. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *Modified Analysis, Addition of Analyte 1,2,3-Trichloropropane,* MA 2734.0, February 17, 2017;
- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.4, October 2016; and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, January 2017.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration,* SOM02.4.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	GC/MS Instrument Performance Check	Yes	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	No	B
6	Laboratory Blanks	Yes	
7	Field/Equipment/Trip Blanks	Yes	
8	Deuterated Monitoring Compounds (DMC)	No	C
9	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	N/A	
10	Internal Standard	Yes	
11	Analyte Identification	Yes	
12	Analyte Quantitation and Reported CRQL	Yes	A, D, E
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	Yes	
15	Overall Assessment of Data	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. Results for the following analyte are qualified as estimated due to a large percent differences (%D) in a continuing calibration verification (CCV) and are flagged "UJ."

- Acetone in samples YABJ2, YABJ3, and YABJ4; trip blank YABH1; and method blank VBLKBL.

The %D of -68.2% reported for acetone in the May 9, 2017 19:36 CCV exceeds the ±50.0% validation criterion for closing CCVs.

C. Results for the following analytes are qualified as estimated due to high deuterated monitoring compound (DMC) recoveries and are flagged "J+."

{Chloroethane-d5}
- Carbon disulfide in sample YABJ4.

{1,1-Dichloroethene-d2}
- 1,1-Dichloroethene, trans-1,2-dichloroethene, and 1,2-dichloroethene in sample YABF8.

DMC recoveries for the qualifications listed above are shown below.

Sample	DMC	% Recovery	QC Limit
YABJ4RE	Chloroethane -d5	132	65-130
YABF8	1,1-Dichloroethene-d2	140	60-125

For DMC recoveries that exceed QC limits, only detected results for associated analytes are qualified; qualified results may be biased high. The chloroethane -d5 recovery in both YABJ4 and YABJ4RE were biased high indicating that matrix interference is probably; sample YABF8 was not reanalyzed undiluted.

Recoveries for DMC vinyl chloride-d3 exceed the QC limit of 40-130% in samples YABF5 (134%), YABH7 (131%), YABH8 (136%), and YABH9 (131%) and the recovery for DMC 1,2-dichlorobenzene-d4 exceeds the QC limit of 80-120% in sample YABF8 (122%), indicating potential high bias in detected results. Qualification is not necessary because the associated target analytes are not detected.

D. The quantitation limit for the following analyte is elevated to 1.0 µg/L due to low instrument sensitivity.

- 1,2-Dibromo-3-chloropropane in all samples, all trip blanks, and all method blanks.

Adequate sensitivity is required to detect a target analyte at low concentration (differentiate it from the background) and to accurately determine concentration. For the initial calibrations, area counts for 1,2-dibromo-3-chloropropane in the 0.50 µg/L standard (436 and 712 counts) are very low and the signal is less than 5 times the baseline noise level. Therefore, in the reviewer's technical judgment, the quantitation limit of 0.50 µg/L reported by the laboratory for 1,2-dibromo-3-chloropropane is not reliable. The quantitation limit has been elevated to 1.0 µg/L, which corresponds to the standards having area counts of 1405 and 1585.

E. The samples listed in the table below required further dilution to obtain results within the calibration range for the indicated analytes. Results for these analytes are reported with the indicated dilution factor applied to both the analytical result and the "adjusted MDL" (method detection limit) in the EXES Data Manager.

Sample	Dilution	Analyte
YABF5, YABF6	2000	Trichloroethene
YABF8	10	Trichloroethene
YABH6	10	cis-1,2-Dichloroethene
YABH7	2000	cis-1,2-Dichloroethene
YABH9, YABJ0	5.0	cis-1,2-Dichloroethene
YABJ1, YABJ3	5.0	1,2-Dichloroethane

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," September 2016 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YABF8

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46927
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids: 0.0
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2734.0 SDG No.: YABH1
Level: TRACE
Lab Sample ID: SE04019-008
Lab File ID: 80507A17
Date Received: 05/05/2017
Date Extracted:
Date Analyzed: 05/07/2017
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		~~Unknown-01~~	~~1.75~~	~~1.0~~	~~J B~~
02		Unknown-02	2.40	0.53	J
03					
04		SL, 6/21/17.			
05					
06					
07					
08					
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27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YABH6

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
Lab Code: EQI Case No.: 46927 MA No.: 2734.0 SDG No.: YABH1
Analytical Method: Trace VOA Level: TRACE
Matrix: Water Lab Sample ID: SE04019-009
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 80507A20
% Solids: 0.0 Date Received: 05/05/2017
GC Column: DB-624 ID: 0.25 (mm) Date Extracted:
Extract Concentrated: (Y/N) Date Analyzed: 05/07/2017
Soil Aliquot (VOA): (uL) Extract Volume: (uL)
Heated Purge: (Y/N) N Extraction Type: PT
Purge Volume: 25.0 (mL) Injection Volume:
Cleanup Types: pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		~~Unknown-01~~	~~1.59~~	~~4.1~~	~~JB~~
02		~~Unknown-02~~	~~1.75~~	~~1.7~~	~~JB~~
03		Unknown-03	2.40	1.3	J
04	598-61-8	~~Unknown-04~~ Cyclobutane, methyl	3.84	1.1	JN
05					
06		SC, 6/21/17			
07					
08					
09					
10					
11					
12					
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25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YABJ2

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
Lab Code: EQI Case No.: 46927 MA No.: 2734.0 SDG No.: YABH1
Analytical Method: Trace VOA Level: TRACE
Matrix: Water Lab Sample ID: SE04019-002
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 80509A22
% Solids: 0.0 Date Received: 05/04/2017
GC Column: DB-624 ID: 0.25 (mm) Date Extracted:
Extract Concentrated: (Y/N) Date Analyzed: 05/09/2017
Soil Aliquot (VOA): (uL) Extract Volume: (uL)
Heated Purge: (Y/N) N Extraction Type: PT
Purge Volume: 25.0 (mL) Injection Volume:
Cleanup Types: pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.40	0.54	J
02	598-61-8	Cyclobutane, methyl-	3.84	4.5	NJ
03		Unknown-02	4.73	16	J
04	~~556-67-2~~	~~Cyclotetrasiloxane, octamethyl-~~	~~11.91~~	~~21~~	~~NJ~~ B
05		~~Unknown-03~~	~~13.27~~	~~12~~	~~J~~ B
06					
07		SL 6/21/17			
08					
09					
10					
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28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YABJ3

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46927
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids: 0.0
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2734.0 SDG No.: YABH1
Level: TRACE
Lab Sample ID: SE04019-003
Lab File ID: 80509A23
Date Received: 05/04/2017
Date Extracted:
Date Analyzed: 05/09/2017
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	598-61-8	~~Unknown-01~~ Cyclobutane, methyl	3.84	0.92	JN
02		Unknown-02	4.73	3.6	J
03					
04		SL, 6/21/17.			
05					
06					
07					
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26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YABJ4RE

Lab Name: Shealy Environmental Services, Inc.
Lab Code: EQI Case No.: 46927
Analytical Method: Trace VOA
Matrix: Water
Sample wt/vol: 25.0 (g/mL) mL
% Solids: 0.0
GC Column: DB-624 ID: 0.25 (mm)
Extract Concentrated: (Y/N)
Soil Aliquot (VOA): (uL)
Heated Purge: (Y/N) N
Purge Volume: 25.0 (mL)
Cleanup Types:
Concentration Units (ug/L, ug/Kg): ug/L

Contract: EP-W-14035
MA No.: 2734.0 SDG No.: YABH1
Level: TRACE
Lab Sample ID: SE04019-004
Lab File ID: 80510C05
Date Received: 05/04/2017
Date Extracted:
Date Analyzed: 05/10/2017
Extract Volume: (uL)
Extraction Type: PT
Injection Volume:
pH: 2 Dilution Factor: 1.0
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		~~Unknown-01~~	~~9.70~~	~~0.55~~	~~J~~
02	~~107-51-7~~	~~Trisiloxane, octamethyl-~~	~~10.62~~	~~0.59~~	~~NJ~~
03		~~Unknown-02~~	~~13.84~~	~~1.8~~	~~J~~
04	1667-04-5	Benzene, 2-chloro-1,3,5-trimethyl-	13.90	0.61	NJ
05		~~Unknown-03~~	~~14.95~~	~~1.0~~	~~J~~
06		~~Unknown-04~~	~~15.86~~	~~5.1~~	~~J~~
07					
08		SL, 7/6/17			
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
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27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 2, SFD-7-2 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106167
Date:	June 30, 2017
Re:	Review of Analytical Data, **Tier 3**

JEIDELBE Digitally signed by JEIDELBE Date: 2017.07.10 15:47:18 -07'00'

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Jervis B. Webb Company
Site Account No.:	09 WR QB 00
Case No.:	46927
SDG No.:	YABH1
Laboratory:	Shealy Environmental Services, Inc. (EQI)
Analysis:	CLP 1,4-Dioxane by Semivolatile Selective Ion Monitoring (SIM)
Samples:	11 Groundwater Samples
Collection Date:	May 3 and 4, 2017
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Howard Pham, CLP COR USEPA Region 5

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46927
SDG No.: YABH1
Site: Jervis B. Webb Company
Laboratory: Shealy Environmental Services, Inc. (EQI)
Analysis: CLP 1,4-Dioxane by Semivolatile Selective Ion Monitoring (SIM)
Reviewer: Santiago Lee, ESAT
Date: June 30, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	None.
Background Samples (BG):	None.
Field Duplicates (D1):	YABF5 and YABF6.
Field Duplicates (D2):	YABH9 and YABJ0.

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

The laboratory added the internal standard at 0.80 ng/µL instead of the 0.40 ng/µL specified in the modified analysis. This deviation is not likely to affect data quality.

All standards and spiking solutions were analyzed before the expiration date.

The laboratory performed manual peak integration for some sample chromatograms. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *Modified Analysis, SVOA SIM Analysis for Analyte 1,4-Dioxane at Lower CRQL,* MA 2765.0, April 13, 2017;
- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.4, October 2016; and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, January 2017.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.4.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	GC/MS Instrument Performance Check	N/A	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	Yes	
6	Laboratory Blank	Yes	
7	Field/Equipment Blanks	N/A	
8	Deuterated Monitoring Compound (DMC)	No	B
9	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	N/A	
10	Laboratory Control Sample (LCS)	Yes	
11	GPC Performance Check	N/A	
12	Internal Standard	Yes	
13	Compound Identification	Yes	
14	Compound Quantitation and Reported CRQL	Yes	A, C
15	System Performance	Yes	
16	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable.

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. Results for the following analyte are qualified as estimated due to high DMC recoveries and are flagged "J+."

{1,4-Dioxane-d8}
- 1,4-Dioxane in samples YABF5 and YABF6.

DMC recoveries for the qualifications listed above are shown below.

Sample	DMC	% Recovery	QC Limit
YABF5DL	1,4-Dioxane-d8	6853	40-110
YABF6DL	1,4-Dioxane-d8	12715	40-110

Qualified results may be biased high. The samples listed above were not re-extracted.

C. Samples YABF5, YABF6, YABF8, and YABH7 were re-analyzed at 25-, 25-, 2.0-, and 10-fold dilutions, respectively, to obtain results within the calibration range. Results for 1,4-dioxane in these samples are reported from the diluted analyses.

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," January 2017 (Table 1, pages 6 and 7).

U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation Limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Sample Summary Report

Case: 46927	Contract: EPW14035	SDG: YABH1	Lab Code: EQI

Sample Number: SBLK19	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.40	U	ug/L	0.40	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927	Contract: EPW14035	SDG: YABH1	Lab Code: EQI

Sample Number: SLCS19	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	0.22	J	ug/L	0.22	J	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: VBLKAS	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VE
Unknown-01	TIC	0.54	J	ug/L	0.54	J	1.0	YES	NV

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: VBLKBL	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Unknown-01	TIC	26	J	ug/L	26	J	1.0	YES	NV

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: VBLKBV	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: VBLKCD	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: VBLKCT	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABF5	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-01-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 11:46:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	64	J+	ug/L	64	D	25.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABF5	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-01-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 11:46:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Vinyl chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Bromomethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Trichlorofluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1-Dichloroethene	Target	110		ug/L	110	D	200.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Acetone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Carbon disulfide	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Methyl acetate	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Methylene chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VE
trans-1,2-Dichloroethene	Target	42	J	ug/L	42	J D	200.0	YES	S3VE
Methyl tert-butyl ether	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1-Dichloroethane	Target	71	J	ug/L	71	J D	200.0	YES	S3VE
cis-1,2-Dichloroethene	Target	300		ug/L	300	D	200.0	YES	S3VE
2-Butanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chloroform	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1,1-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Cyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Carbon tetrachloride	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Benzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Trichloroethene	Target	25000		ug/L	25000	D	2000.0	YES	S3VE
Methylcyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Bromodichloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
cis-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
4-Methyl-2-pentanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Toluene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
trans-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1,2-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Tetrachloroethene	Target	100		ug/L	100	D	200.0	YES	S3VE
2-Hexanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Dibromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dibromoethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Ethylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
o-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
m, p-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Styrene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Bromoform	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Isopropylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,3-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,4-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2,3-Trichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VE

Sample Summary Report

Case: 46927	Contract: EPW14035	SDG: YABH1	Lab Code: EQI

Sample Number: YABF6	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-91-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 11:56:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	71	J+	ug/L	71	D	25.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABF6	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-91-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 11:56:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Vinyl chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Bromomethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Trichlorofluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1-Dichloroethene	Target	100		ug/L	100	D	200.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Acetone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Carbon disulfide	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Methyl acetate	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Methylene chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VE
trans-1,2-Dichloroethene	Target	38	J	ug/L	38	J D	200.0	YES	S3VE
Methyl tert-butyl ether	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1-Dichloroethane	Target	63	J	ug/L	63	J D	200.0	YES	S3VE
cis-1,2-Dichloroethene	Target	270		ug/L	270	D	200.0	YES	S3VE
2-Butanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chloroform	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1,1-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Cyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Carbon tetrachloride	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Benzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Trichloroethene	Target	23000		ug/L	23000	D	2000.0	YES	S3VE
Methylcyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Bromodichloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
cis-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
4-Methyl-2-pentanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Toluene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
trans-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1,2-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Tetrachloroethene	Target	88	J	ug/L	88	J D	200.0	YES	S3VE
2-Hexanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Dibromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dibromoethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Ethylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
o-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
m, p-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Styrene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Bromoform	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Isopropylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,3-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,4-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2,3-Trichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABF8	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-03-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 12:51:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	9.6		ug/L	9.6	D	2.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABF8	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-03-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 12:51:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.73		ug/L	0.73		1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	7.8	J+	ug/L	7.8		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	4.2	J	ug/L	4.2	J	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	2.9	J+	ug/L	2.9		1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	2.9		ug/L	2.9		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	18	J+	ug/L	18		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	180		ug/L	180	D	10.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Unknown-01	TIC	1.8	J	ug/L	1.8	J	1.0	YES	NV

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	0.53	J	ug/L	0.53	J	1.0	YES	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH1	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JW-RL03-0517	pH: 2	Sample Date: 05/03/2017	Sample Time: 06:40:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclotetrasiloxane, octamethyl-	TIC	0.63	NJ	ug/L	0.63	NJ	1.0	YES	NV

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927	Contract: EPW14035	SDG: YABH1	Lab Code: EQI

Sample Number: YABH6	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-11A-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 09:26:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.0		ug/L	4.0		1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH6	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-11A-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 09:26:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,1-Dichloroethene	Target	2.4	J	ug/L	2.4	J D	10.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Acetone	Target	50	U	ug/L	50	U	10.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Methyl acetate	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
trans-1,2-Dichloroethene	Target	2.9	J	ug/L	2.9	J D	10.0	YES	S3VE
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
cis-1,2-Dichloroethene	Target	140		ug/L	140	E	1.0	YES	S3VE
2-Butanone	Target	50	U	ug/L	50	U	10.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Trichloroethene	Target	4.6	J	ug/L	4.6	J D	10.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
4-Methyl-2-pentanone	Target	50	U	ug/L	50	U	10.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
2-Hexanone	Target	50	U	ug/L	50	U	10.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
o-Xylene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
m, p-Xylene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE
Unknown-01	TIC	4.1	J	ug/L	4.1	J	1.0	YES	NV

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	1.7	J	ug/L	1.7	J	1.0	YES	NV
Unknown-03	TIC	1.3	J	ug/L	1.3	J	1.0	YES	NV
Unknown-04	TIC	1.1	J	ug/L	1.1	J	1.0	YES	NV
1,2,3-Trichloropropane	Target	5.0	U	ug/L	5.0	U	10.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH7	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-11B-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 08:39:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	22		ug/L	22	D	10.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH7	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-11B-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 08:39:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Vinyl chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Bromomethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Trichlorofluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1-Dichloroethene	Target	160		ug/L	160	D	200.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Acetone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Carbon disulfide	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Methyl acetate	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Methylene chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VE
trans-1,2-Dichloroethene	Target	350		ug/L	350	D	200.0	YES	S3VE
Methyl tert-butyl ether	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1-Dichloroethane	Target	82	J	ug/L	82	J D	200.0	YES	S3VE
cis-1,2-Dichloroethene	Target	17000		ug/L	17000	D	2000.0	YES	S3VE
2-Butanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chloroform	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1,1-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Cyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Carbon tetrachloride	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Benzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dichloroethane	Target	140		ug/L	140	D	200.0	YES	S3VE
Trichloroethene	Target	42	J	ug/L	42	J D	200.0	YES	S3VE
Methylcyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Bromodichloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
cis-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
4-Methyl-2-pentanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Toluene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
trans-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1,2-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Tetrachloroethene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
2-Hexanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Dibromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dibromoethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Chlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Ethylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
o-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
m, p-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Styrene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Bromoform	Target	100	U	ug/L	100	U	200.0	YES	S3VE
Isopropylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,3-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,4-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VE
1,2,3-Trichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH8	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JW-RL04-0517	pH: 2	Sample Date: 05/04/2017	Sample Time: 07:15:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH9	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-11C-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 07:49:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.1		ug/L	1.1		1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH9	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-11C-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 07:49:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.20	J	ug/L	0.20	J	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.48	J	ug/L	0.48	J	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	1.1		ug/L	1.1		1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.15	J	ug/L	0.15	J	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	18		ug/L	18	D	5.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	1.4		ug/L	1.4		1.0	YES	S3VE
Trichloroethene	Target	0.99		ug/L	0.99		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ0	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-911C-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 07:59:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.1		ug/L	1.1		1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ0	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-911C-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 07:59:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.20	J	ug/L	0.20	J	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.40	J	ug/L	0.40	J	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	1.1		ug/L	1.1		1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.14	J	ug/L	0.14	J	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	21		ug/L	21	D	5.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	1.4		ug/L	1.4		1.0	YES	S3VE
Trichloroethene	Target	1.0		ug/L	1.0		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ1	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-12-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 10:26:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0		ug/L	2.0		1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ1	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-12-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 10:26:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.21	J	ug/L	0.21	J	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.34	J	ug/L	0.34	J	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.76		ug/L	0.76		1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.53		ug/L	0.53		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	15		ug/L	15	D	5.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	2.1		ug/L	2.1		1.0	YES	S3VE
Trichloroethene	Target	2.1		ug/L	2.1		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927	Contract: EPW14035	SDG: YABH1	Lab Code: EQI

Sample Number: YABJ2	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-13A-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 08:51:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.69		ug/L	0.69		1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ2	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-13A-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 08:51:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.44	J	ug/L	0.44	J	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.34	J	ug/L	0.34	J	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.84		ug/L	0.84		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.9		ug/L	2.9		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0		ug/L	5.0		1.0	YES	S3VE
Trichloroethene	Target	3.0		ug/L	3.0		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.33	J	ug/L	0.33	J	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Unknown-02	TIC	16	J	ug/L	16	J	1.0	YES	NV

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyclobutane, methyl-	TIC	4.5	NJ	ug/L	4.5	NJ	1.0	YES	NV
Unknown-01	TIC	0.54	J	ug/L	0.54	J	1.0	YES	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Unknown-03	TIC	12	J	ug/L	12	J	1.0	YES	NV
Cyclotetrasiloxane, octamethyl-	TIC	21	NJ	ug/L	21	NJ	1.0	YES	NV

Sample Summary Report

Case: 46927	Contract: EPW14035	SDG: YABH1	Lab Code: EQI

Sample Number: YABJ3	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-13B-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 08:15:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.79		ug/L	0.79		1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ3	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-13B-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 08:15:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.16	J	ug/L	0.16	J	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.58		ug/L	0.58		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.59		ug/L	0.59		1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	26		ug/L	26	D	5.0	YES	S3VE
Trichloroethene	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Unknown-01	TIC	0.92	J	ug/L	0.92	J	1.0	YES	NV

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	3.6	J	ug/L	3.6	J	1.0	YES	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ4	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-13C-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 07:30:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.28	J	ug/L	0.28	J	1.0	YES	S3VE

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ4	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-13C-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 07:30:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.25	J+	ug/L	0.25	J	1.0	YES	S3VE
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.26	J	ug/L	0.26	J	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	1.1		ug/L	1.1		1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene, 2-chloro-1,3,5-	TIC	0.59	NJ	ug/L	0.59	NJ	1.0	YES	NV

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trimethyl-									
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Unknown-01	TIC	0.66	J	ug/L	0.66	J	1.0	YES	NV
Trisiloxane, octamethyl-	TIC	0.59	NJ	ug/L	0.59	NJ	1.0	YES	NV

Sample Summary Report

Case: 46927	Contract: EPW14035	SDG: YABH1	Lab Code: EQI

Sample Summary Report

Case: 46927	Contract: EPW14035	SDG: YABH1	Lab Code: EQI

Sample Number: SBLK19	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.40	U	ug/L	0.40	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: SLCS19	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	0.22	J	ug/L	0.22	J	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: VBLKAS	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VEM
Unknown-01	TIC	0.54	J	ug/L	0.54	J	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Sample Number: VBLKBL	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Unknown-01	TIC	26	J	ug/L	26	J	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: VBLKBV	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Sample Number: VBLKCD	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: VBLKCT	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927	Contract: EPW14035	SDG: YABH1	Lab Code: EQI

Sample Number: YABF5	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-01-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 11:46:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	64	J+	ug/L	64	D	25.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABF5	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-01-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 11:46:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Vinyl chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Bromomethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Trichlorofluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1-Dichloroethene	Target	110		ug/L	110	D	200.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Acetone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Carbon disulfide	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Methyl acetate	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Methylene chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	42	J	ug/L	42	J D	200.0	YES	S3VEM
Methyl tert-butyl ether	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1-Dichloroethane	Target	71	J	ug/L	71	J D	200.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	300		ug/L	300	D	200.0	YES	S3VEM
2-Butanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Bromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chloroform	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1,1-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Cyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Carbon tetrachloride	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Benzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Trichloroethene	Target	25000		ug/L	25000	D	2000.0	YES	S3VEM
Methylcyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Bromodichloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
4-Methyl-2-pentanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Toluene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1,2-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Tetrachloroethene	Target	100		ug/L	100	D	200.0	YES	S3VEM
2-Hexanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Dibromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dibromoethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Ethylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
o-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
m, p-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Styrene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Bromoform	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Isopropylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,3-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,4-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2,3-Trichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABF6	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-91-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 11:56:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	71	J+	ug/L	71	D	25.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABF6	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-91-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 11:56:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Vinyl chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Bromomethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Trichlorofluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1-Dichloroethene	Target	100		ug/L	100	D	200.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Acetone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Carbon disulfide	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Methyl acetate	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Methylene chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	38	J	ug/L	38	J D	200.0	YES	S3VEM
Methyl tert-butyl ether	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1-Dichloroethane	Target	63	J	ug/L	63	J D	200.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	270		ug/L	270	D	200.0	YES	S3VEM
2-Butanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Bromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chloroform	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1,1-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Cyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Carbon tetrachloride	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Benzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Trichloroethene	Target	23000		ug/L	23000	D	2000.0	YES	S3VEM
Methylcyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Bromodichloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
4-Methyl-2-pentanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Toluene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1,2-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Tetrachloroethene	Target	88	J	ug/L	88	J D	200.0	YES	S3VEM
2-Hexanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Dibromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dibromoethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Ethylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
o-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
m, p-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Styrene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Bromoform	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Isopropylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,3-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,4-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2,3-Trichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABF8	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-03-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 12:51:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	9.6		ug/L	9.6	D	2.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABF8	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-03-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 12:51:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.73		ug/L	0.73		1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	7.8	J+	ug/L	7.8		1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	4.2	J	ug/L	4.2	J	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	2.9	J+	ug/L	2.9		1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	2.9		ug/L	2.9		1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	18	J+	ug/L	18		1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	180		ug/L	180	D	10.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Unknown-01	TIC	1.8	J	ug/L	1.8	J	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	0.53	J	ug/L	0.53	J	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH1	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JW-RL03-0517	pH: 2	Sample Date: 05/03/2017	Sample Time: 06:40:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclotetrasiloxane, octamethyl-	TIC	0.63	NJ	ug/L	0.63	NJ	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH6	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-11A-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 09:26:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.0		ug/L	4.0		1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH6	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-11A-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 09:26:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.37	J	ug/L	0.37	J	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.26	J	ug/L	0.26	J	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	1.6		ug/L	1.6		1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	8.5		ug/L	8.5		1.0	YES	S3VEM
Carbon disulfide	Target	0.27	J	ug/L	0.27	J	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	3.3		ug/L	3.3		1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.54		ug/L	0.54		1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	140		ug/L	140	D	10.0	YES	S3VEM
2-Butanone	Target	0.50	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.15	J	ug/L	0.15	J	1.0	YES	S3VEM
1,2-Dichloroethane	Target	1.0		ug/L	1.0		1.0	YES	S3VEM
Trichloroethene	Target	5.3		ug/L	5.3		1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	0.50	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	0.50	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Unknown-01	TIC	4.1	J	ug/L	4.1	J	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	1.7	J	ug/L	1.7	J	1.0	YES	S3VEM
Unknown-03	TIC	1.3	J	ug/L	1.3	J	1.0	YES	S3VEM
Unknown-04	TIC	1.1	J	ug/L	1.1	J	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH7	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-11B-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 08:39:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	22		ug/L	22	D	10.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH7	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-11B-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 08:39:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Vinyl chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Bromomethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Trichlorofluoromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1-Dichloroethene	Target	160		ug/L	160	D	200.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Acetone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Carbon disulfide	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Methyl acetate	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Methylene chloride	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	350		ug/L	350	D	200.0	YES	S3VEM
Methyl tert-butyl ether	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1-Dichloroethane	Target	82	J	ug/L	82	J D	200.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	17000		ug/L	17000	D	2000.0	YES	S3VEM
2-Butanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Bromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chloroform	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1,1-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Cyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Carbon tetrachloride	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Benzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dichloroethane	Target	140		ug/L	140	D	200.0	YES	S3VEM
Trichloroethene	Target	42	J	ug/L	42	J D	200.0	YES	S3VEM
Methylcyclohexane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Bromodichloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
4-Methyl-2-pentanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Toluene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1,2-Trichloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Tetrachloroethene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
2-Hexanone	Target	1000	U	ug/L	1000	U	200.0	YES	S3VEM
Dibromochloromethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dibromoethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Chlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Ethylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
o-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
m, p-Xylene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Styrene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Bromoform	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
Isopropylbenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,3-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,4-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	100	U	ug/L	100	U	200.0	YES	S3VEM
1,2,3-Trichloropropane	Target	100	U	ug/L	100	U	200.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH8	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JW-RL04-0517	pH: 2	Sample Date: 05/04/2017	Sample Time: 07:15:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH9	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-11C-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 07:49:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.1		ug/L	1.1		1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABH9	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-11C-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 07:49:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.20	J	ug/L	0.20	J	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.48	J	ug/L	0.48	J	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	1.1		ug/L	1.1		1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.15	J	ug/L	0.15	J	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	18		ug/L	18	D	5.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	1.4		ug/L	1.4		1.0	YES	S3VEM
Trichloroethene	Target	0.99		ug/L	0.99		1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ0	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-911C-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 07:59:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.1		ug/L	1.1		1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ0	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-911C-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 07:59:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.20	J	ug/L	0.20	J	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.40	J	ug/L	0.40	J	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	1.1		ug/L	1.1		1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.14	J	ug/L	0.14	J	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	21		ug/L	21	D	5.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	1.4		ug/L	1.4		1.0	YES	S3VEM
Trichloroethene	Target	1.0		ug/L	1.0		1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ1	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-12-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 10:26:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0		ug/L	2.0		1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ1	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-12-0517	pH: 7	Sample Date: 05/04/2017	Sample Time: 10:26:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.21	J	ug/L	0.21	J	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.34	J	ug/L	0.34	J	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.76		ug/L	0.76		1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.53		ug/L	0.53		1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	15		ug/L	15	D	5.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	2.1		ug/L	2.1		1.0	YES	S3VEM
Trichloroethene	Target	2.1		ug/L	2.1		1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ2	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-13A-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 08:51:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.69		ug/L	0.69		1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ2	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-13A-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 08:51:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.44	J	ug/L	0.44	J	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.34	J	ug/L	0.34	J	1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.84		ug/L	0.84		1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	2.9		ug/L	2.9		1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	5.0		ug/L	5.0		1.0	YES	S3VEM
Trichloroethene	Target	3.0		ug/L	3.0		1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.33	J	ug/L	0.33	J	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Unknown-02	TIC	16	J	ug/L	16	J	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyclobutane, methyl-	TIC	4.5	NJ	ug/L	4.5	NJ	1.0	YES	S3VEM
Unknown-01	TIC	0.54	J	ug/L	0.54	J	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Unknown-03	TIC	12	J	ug/L	12	J	1.0	YES	S3VEM
Cyclotetrasiloxane, octamethyl-	TIC	21	NJ	ug/L	21	NJ	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ3	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-13B-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 08:15:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.79		ug/L	0.79		1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ3	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-13B-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 08:15:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.16	J	ug/L	0.16	J	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.58		ug/L	0.58		1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.59		ug/L	0.59		1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	26		ug/L	26	D	5.0	YES	S3VEM
Trichloroethene	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Unknown-01	TIC	0.92	J	ug/L	0.92	J	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	3.6	J	ug/L	3.6	J	1.0	YES	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 | **Contract: EPW14035** | **SDG: YABH1** | **Lab Code: EQI**

Sample Number: YABJ4	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 2765.0
Sample Location: JWMW-13C-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 07:30:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.28	J	ug/L	0.28	J	1.0	YES	S3VEM

Sample Summary Report

Case: 46927	Contract: EPW14035	SDG: YABH1	Lab Code: EQI

Sample Number: YABJ4	Method: Trace Volatiles	Matrix: Water	MA Number: 2734.0
Sample Location: JWMW-13C-0517	pH: 7	Sample Date: 05/03/2017	Sample Time: 07:30:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.24	J+	ug/L	0.24	J	1.0	YES	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.25	J	ug/L	0.25	J	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	1.1		ug/L	1.1		1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene, 2-chloro-1,3,5-	TIC	0.59	NJ	ug/L	0.59	NJ	1.0	YES	S3VEM

Sample Summary Report

Case: 46927 **Contract: EPW14035** **SDG: YABH1** **Lab Code: EQI**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trimethyl-									
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Unknown-01	TIC	0.66	J	ug/L	0.66	J	1.0	YES	S3VEM
Trisiloxane, octamethyl-	TIC	0.59	NJ	ug/L	0.59	NJ	1.0	YES	S3VEM

Sample Summary Report

Case: 46927	Contract: EPW14035	SDG: YABH1	Lab Code: EQI

ATTACHMENT D

FIELD DUPLICATE SUMMARY REPORT

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Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT04	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,4-Dioxane (p-Dioxane)	7.90	6.00	0.500	27.3	OK	NA

Location	Analysis
JW-CPT04	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,1-Dichloroethane	2.00	1.60	0.500	22.2	OK	NA
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	2-Butanone (MEK)	ND	ND	5.00		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT04	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	2-Hexanone	ND	ND	5.00		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Acetone	5.70	7.50	5.00	27.3	OK	NA
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Benzene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Bromochloromethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Bromodichloromethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Bromoform	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Bromomethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Carbon Disulfide	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Chlorobenzene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Chloroethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Chloroform	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Chloromethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	cis-1,2-Dichloroethylene	2.10	1.80	0.500	15.4	OK	NA
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Cyclohexane	0.540	0.260	0.500	70.0	NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Dibromochloromethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Ethylbenzene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	m,p-Xylene	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT04	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Methyl Acetate	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Methylcyclohexane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Methylene Chloride	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	o-Xylene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Styrene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Toluene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Trichloroethene (TCE)	1.20	0.820	0.500	37.6	Out	NA
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jun 15 2015	JW-CPT04-60 / JW-CPT04-61	S-1033.01 / S-1033.02	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
JW-CPT05	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,4-Dioxane (p-Dioxane)	0.440	ND	0.500		NA	OK

Location	Analysis
JW-CPT05	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT05	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,2-Dichloroethane	3.60	3.70	0.500	2.74	OK	NA
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	2-Hexanone	ND	ND	5.00		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Acetone	ND	ND	5.00		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Benzene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Bromochloromethane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Bromodichloromethane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT05	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Bromoform	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Bromomethane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Carbon Disulfide	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Chlorobenzene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Chloroethane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Chloroform	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Chloromethane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	cis-1,2-Dichloroethylene	0.210	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Cyclohexane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Dibromochloromethane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Ethylbenzene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	m,p-Xylene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Methyl Acetate	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Methylcyclohexane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Methylene Chloride	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	o-Xylene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Styrene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT05	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Toluene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Trichloroethene (TCE)	0.200	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jun 17 2015	JW-CPT05-90 / JW-CPT05-91	S-1036.03 / S-1036.04	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
JW-CPT07	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,4-Dioxane (p-Dioxane)	ND	ND	0.500		NA	OK

Location	Analysis
JW-CPT07	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT07	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,2-Dichloroethane	5.10	4.40	0.500	14.7	OK	NA
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	2-Hexanone	ND	ND	5.00		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Acetone	ND	ND	5.00		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Benzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Bromochloromethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Bromodichloromethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Bromoform	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Bromomethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Carbon Disulfide	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Chlorobenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Chloroethane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT07	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Chloroform	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Chloromethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	cis-1,2-Dichloroethylene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Cyclohexane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Dibromochloromethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Ethylbenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	m,p-Xylene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Methyl Acetate	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Methylcyclohexane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Methylene Chloride	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	o-Xylene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Styrene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Toluene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Trichloroethene (TCE)	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Trichlorofluoromethane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT07	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 18 2015	JW-CPT07-75 / JW-CPT07-76	S-1045.05 / S-1045.06	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
JW-CPT08	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,4-Dioxane (p-Dioxane)	1.60	3.40	0.500	72.0	Out	NA

Location	Analysis
JW-CPT08	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT08	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,2-Dichloroethane	5.80	6.20	0.500	6.67	OK	NA
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	2-Hexanone	ND	ND	5.00		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Acetone	ND	ND	5.00		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Benzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Bromochloromethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Bromodichloromethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Bromoform	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Bromomethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Carbon Disulfide	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Chlorobenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Chloroethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Chloroform	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Chloromethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	cis-1,2-Dichloroethylene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Cyclohexane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT08	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Dibromochloromethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Ethylbenzene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	m,p-Xylene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Methyl Acetate	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Methylcyclohexane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Methylene Chloride	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	o-Xylene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Styrene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Toluene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Trichloroethene (TCE)	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jun 18 2015	JW-CPT08-105 / JW-CPT08-106	S-1043.04 / S-1043.05	Vinyl Chloride	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT10	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,4-Dioxane (p-Dioxane)	ND	ND	0.500		NA	OK

Location	Analysis
JW-CPT10	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,2-Dichloroethane	6.90	7.20	0.500	4.26	OK	NA
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	2-Butanone (MEK)	ND	ND	5.00		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT10	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	2-Hexanone	ND	ND	5.00		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Acetone	8.40	8.40	5.00	0.00	OK	NA
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Benzene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Bromochloromethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Bromodichloromethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Bromoform	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Bromomethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Carbon Disulfide	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Chlorobenzene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Chloroethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Chloroform	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Chloromethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	cis-1,2-Dichloroethylene	1.70	1.80	0.500	5.71	OK	NA
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Cyclohexane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Dibromochloromethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Ethylbenzene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	m,p-Xylene	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT10	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Methyl Acetate	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Methylcyclohexane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Methylene Chloride	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	o-Xylene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Styrene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Toluene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Trichloroethene (TCE)	3.10	3.00	0.500	3.28	OK	NA
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jun 22 2015	JW-CPT10-75 / JW-CPT10-76	S-1048.02 / S-1048.03	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
JW-CPT12	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,4-Dioxane (p-Dioxane)	3.30	ND	0.500		NA	3.3

Location	Analysis
JW-CPT12	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT12	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,1-Dichloroethane	0.960	0.700	0.500	31.3	OK	NA
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	2-Hexanone	ND	ND	5.00		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Acetone	ND	ND	5.00		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Benzene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Bromochloromethane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Bromodichloromethane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT12	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Bromoform	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Bromomethane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Carbon Disulfide	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Chlorobenzene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Chloroethane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Chloroform	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Chloromethane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	cis-1,2-Dichloroethylene	3.00	2.00	0.500	40.0	Out	NA
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Cyclohexane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Dibromochloromethane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Ethylbenzene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	m,p-Xylene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Methyl Acetate	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Methylcyclohexane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Methylene Chloride	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	o-Xylene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Styrene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT12	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Toluene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Trichloroethene (TCE)	16.0	10.0	0.500	46.2	Out	NA
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jun 26 2015	JW-CPT12-75 / JW-CPT12-74	S-1068.02 / S-1068.01	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
JW-CPT13	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,4-Dioxane (p-Dioxane)	1.10	0.800	0.500	31.6	OK	NA

Location	Analysis
JW-CPT13	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT13	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	2-Hexanone	ND	ND	5.00		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Acetone	ND	ND	5.00		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Benzene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Bromochloromethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Bromodichloromethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Bromoform	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Bromomethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Carbon Disulfide	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Chlorobenzene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Chloroethane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT13	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Chloroform	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Chloromethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	cis-1,2-Dichloroethylene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Cyclohexane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Dibromochloromethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Ethylbenzene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	m,p-Xylene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Methyl Acetate	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Methylcyclohexane	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Methylene Chloride	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	o-Xylene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Styrene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Toluene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Trichloroethene (TCE)	ND	ND	0.500		NA	OK
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Trichlorofluoromethane	ND	ND	0.500		NA	OK

Location	**Analysis**
JW-CPT13	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jun 25 2015	JW-CPT13-90 / JW-CPT13-91	S-1063.03 / S-1063.04	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	**Analysis**
JW-CPT15	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,4-Dioxane (p-Dioxane)	0.260	0.350	0.500	29.5	NA	OK

Location	**Analysis**
JW-CPT15	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT15	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,2-Dichloroethane	7.40	7.50	0.500	1.34	OK	NA
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,2-Dichloropropane	0.440	0.360	0.500	20.0	NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	2-Hexanone	ND	ND	5.00		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Acetone	ND	ND	5.00		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Benzene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Bromochloromethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Bromodichloromethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Bromoform	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Bromomethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Carbon Disulfide	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Chlorobenzene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Chloroethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Chloroform	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Chloromethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	cis-1,2-Dichloroethylene	0.260	0.340	0.500	26.7	NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Cyclohexane	ND	ND	0.500		NA	OK

Data Quality Summary Report
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Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-CPT15	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Dibromochloromethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Ethylbenzene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	m,p-Xylene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Methyl Acetate	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Methylcyclohexane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Methylene Chloride	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	o-Xylene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Styrene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Toluene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Trichloroethene (TCE)	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Oct 26 2015	JW-CPT15-106 / JW-CPT15-107	S-1294.04 / S-1294.03	Vinyl Chloride	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-CPT17	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,4-Dioxane (p-Dioxane)	0.420	0.540	0.500	25.0	NA	OK

Location	Analysis
JW-CPT17	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,2-Dichloroethane	12.0	12.0	0.500	0.00	OK	NA
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,2-Dichloropropane	0.380	0.370	0.500	2.67	NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	2-Butanone (MEK)	ND	ND	5.00		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT17	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	2-Hexanone	ND	ND	5.00		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Acetone	ND	ND	5.00		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Benzene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Bromochloromethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Bromodichloromethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Bromoform	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Bromomethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Carbon Disulfide	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Chlorobenzene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Chloroethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Chloroform	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Chloromethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	cis-1,2-Dichloroethylene	2.10	2.30	0.500	9.09	OK	NA
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Cyclohexane	0.310	0.300	0.500	3.28	NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Dibromochloromethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Ethylbenzene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	m,p-Xylene	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT17	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Methyl Acetate	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Methylcyclohexane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Methylene Chloride	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	o-Xylene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Styrene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Toluene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Trichloroethene (TCE)	0.600	0.710	0.500	16.8	OK	NA
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Oct 28 2015	JW-CPT17-91 / JW-CPT17-92	S-1300.04 / S-1300.02	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
JW-CPT18	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,4-Dioxane (p-Dioxane)	0.730	0.370	0.500	65.5	NA	OK

Location	Analysis
JW-CPT18	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT18	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,2-Dichloroethane	16.0	18.0	0.500	11.8	OK	NA
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,2-Dichloropropane	0.220	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	2-Hexanone	ND	ND	5.00		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Acetone	ND	ND	5.00		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Benzene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Bromochloromethane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Bromodichloromethane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT18	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Bromoform	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Bromomethane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Carbon Disulfide	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Chlorobenzene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Chloroethane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Chloroform	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Chloromethane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	cis-1,2-Dichloroethylene	1.00	1.10	0.500	9.52	OK	NA
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Cyclohexane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Dibromochloromethane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Ethylbenzene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	m,p-Xylene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Methyl Acetate	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Methylcyclohexane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Methylene Chloride	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	o-Xylene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Styrene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK

Location	Analysis
JW-CPT18	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Toluene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Trichloroethene (TCE)	ND	0.260	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Oct 29 2015	JW-CPT18-90 / JW-CPT18-91	S-1303.03 / S-1303.04	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
JW-CPT20	E524.2

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,1,1,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,1-Dichloropropene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT20	E524.2

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,2,4-Trimethylbenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,2-Dibromo-3-chloropropane	ND	ND	2.00		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,3,5-Trimethylbenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,3-Dichloropropane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1-NONANAL	1.50	1.60		6.45		OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	2,2-Dichloropropane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	2-Butanone (MEK)	ND	ND	4.00		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	2-Chlorotoluene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	4-Chlorotoluene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Acetone	ND	ND	4.40		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Benzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Bromobenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Bromochloromethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Bromodichloromethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Bromoform	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Bromomethane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT20	E524.2

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Chlorobenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Chloroethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Chloroform	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Chloromethane	ND	0.400	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	cis-1,2-Dichloroethylene	5.30	5.30	0.500	0.00	OK	NA
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	DECYL ALDEHYDE	0.700	0.800		13.3		OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Dibromochloromethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Dibromomethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Ethylbenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Hexachlorobutadiene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	m,p-Xylene	ND	ND	1.00		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Methylene Chloride	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	n-Butylbenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	n-Propylbenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Naphthalene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	o-Xylene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	p-Cymene (p-Isopropyltoluene)	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	sec-Butylbenzene	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-CPT20	E524.2

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Styrene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	tert-Butyl Methyl Ether (MTBE)	ND	ND	2.00		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	tert-Butylbenzene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Toluene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Trichloroethene (TCE)	1.40	1.40	0.500	0.00	OK	NA
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
JW-CPT20	SW8270D

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 16 2016	JW-CPT20-120 / JW-CPT20-121	1608029-07 / 1608029-08	1,4-Dioxane (p-Dioxane)	ND	ND	1.00		NA	OK

Location	Analysis
JWMW-01	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,4-Dioxane (p-Dioxane)	64.0	71.0	9.60	10.4	OK	NA

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JWMW-01	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,1,1-Trichloroethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,1,2,2-Tetrachloroethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,1,2-Trichloroethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,1-Dichloroethane	71.0	63.0	100	11.9	NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,1-Dichloroethene	110	100	100	9.52		OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,2,3-Trichlorobenzene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,2,3-Trichloropropane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,2,4-Trichlorobenzene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,2-Dibromo-3-chloropropane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,2-Dibromoethane (EDB)	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,2-Dichlorobenzene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,2-Dichloroethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,2-Dichloropropane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,3-Dichlorobenzene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	1,4-Dichlorobenzene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	2-Butanone (MEK)	ND	ND	1000		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	2-Hexanone	ND	ND	1000		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	4-Methyl-2-pentanone (MIBK)	ND	ND	1000		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Acetone	ND	ND	1000		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Benzene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Bromochloromethane	ND	ND	100		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JWMW-01	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Bromodichloromethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Bromoform	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Bromomethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Carbon Disulfide	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Carbon Tetrachloride	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Chlorobenzene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Chloroethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Chloroform	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Chloromethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	cis-1,2-Dichloroethylene	300	270	100	10.5	OK	NA
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	cis-1,3-Dichloropropene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Cyclohexane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Dibromochloromethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Dichlorodifluoromethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Ethylbenzene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Isopropylbenzene (Cumene)	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	m,p-Xylene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Methyl Acetate	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Methylcyclohexane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Methylene Chloride	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	o-Xylene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Styrene	ND	ND	100		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JWMW-01	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	tert-Butyl Methyl Ether (MTBE)	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Tetrachloroethene (PCE)	100	88.0	100	12.8	NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Toluene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	trans-1,2-Dichloroethene	42.0	38.0	100	10.0	NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	trans-1,3-Dichloropropene	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Trichloroethene (TCE)	25000	23000	1000	8.33	OK	NA
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Trichlorofluoromethane	ND	ND	100		NA	OK
May 4 2017	JWMW-01-0517 / JWMW-91-0517	SE04019-006 / SE04019-007	Vinyl Chloride	ND	ND	100		NA	OK

Location	Analysis
JWMW-07C	A2320

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	1612025-06 / 1612025-07	Alkalinity, Bicarbonate (as CaCO3)	440	430	10.0	2.30	OK	NA
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	1612025-06 / 1612025-07	Alkalinity, Carbonate (as CaCO3)	8.10	ND	10.0		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	1612025-06 / 1612025-07	Alkalinity, Hydroxide (as CaCO3)	ND	ND	10.0		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	1612025-06 / 1612025-07	Alkalinity, Total (as CaCO3)	450	430	10.0	4.55	OK	NA

Location	Analysis
JWMW-07C	A2540C

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	1612025-06 / 1612025-07	Total Dissolved Solids	1100	1100	20.0	0.00	OK	NA

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JWMW-07C	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,4-Dioxane (p-Dioxane)	0.710	0.680	0.480	4.32	OK	NA

Location	Analysis
JWMW-07C	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,2,4,5-Tetrachlorobenzene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,4-Dioxane (p-Dioxane)	0.820	0.790	1.90	3.73	NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2,3,4,6-Tetrachlorophenol	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2,4,5-Trichlorophenol	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2,4,6-Trichlorophenol	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2,4-Dichlorophenol	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2,4-Dimethylphenol	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2,4-Dinitrophenol	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2,4-Dinitrotoluene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2,6-Dinitrotoluene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2-Chloronaphthalene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2-Chlorophenol	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2-Methylnaphthalene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2-Methylphenol (o-Cresol)	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2-Nitroaniline	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2-Nitrophenol	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	3,3'-Dichlorobenzidine	ND	ND	9.50		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JWMW-07C	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	3-Nitroaniline	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	4,6-Dinitro-2-Methylphenol	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	4-Bromophenyl phenyl ether	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	4-Chloro-3-Methylphenol	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	4-Chloroaniline	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	4-Chlorophenyl Phenyl Ether	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	4-Methylphenol (p-Cresol)	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	4-Nitroaniline	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	4-Nitrophenol	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Acenaphthene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Acenaphthylene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Acetophenone	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Anthracene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Atrazine	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Benzaldehyde	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Benzo(a)anthracene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Benzo(a)pyrene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Benzo(b)fluoranthene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Benzo(g,h,i)perylene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Benzo(k)fluoranthene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Benzyl butyl phthalate	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Biphenyl (Diphenyl)	ND	ND	4.80		NA	OK

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Location	Analysis
JWMW-07C	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	bis(2-Chloroethoxy) Methane	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	bis(2-Chloroisopropyl) Ether	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	bis(2-Ethylhexyl) Phthalate	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Caprolactam	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Carbazole	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Chrysene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Di-n-Butyl Phthalate	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Di-n-Octylphthalate	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Dibenz(a,h)anthracene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Dibenzofuran	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Diethyl Phthalate	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Dimethyl Phthalate	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Fluoranthene	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Fluorene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Hexachlorobenzene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Hexachlorobutadiene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Hexachlorocyclopentadiene	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Hexachloroethane	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Indeno(1,2,3-c,d)pyrene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Isophorone	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	n-Nitrosodi-n-propylamine	ND	ND	4.80		NA	OK

Location	Analysis
JWMW-07C	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	n-Nitrosodiphenylamine	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Naphthalene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Nitrobenzene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Pentachlorophenol	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Phenanthrene	ND	ND	4.80		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Phenol	ND	ND	9.50		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Pyrene	ND	ND	4.80		NA	OK

Location	Analysis
JWMW-07C	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK

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Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,2-Dichloroethane	6.10	6.20	0.500	1.63	OK	NA
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	2-Hexanone	ND	ND	5.00		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Acetone	3.80	2.90	5.00	26.9	NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Benzene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Bromochloromethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Bromodichloromethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Bromoform	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Bromomethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Carbon Disulfide	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Chlorobenzene	0.260	0.260	0.500	0.00	NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Chloroethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Chloroform	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Chloromethane	0.230	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	cis-1,2-Dichloroethylene	0.620	0.600	0.500	3.28	OK	NA
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Cyclohexane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Dibromochloromethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Ethylbenzene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	m,p-Xylene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Methyl Acetate	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Methylcyclohexane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Methylene Chloride	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	o-Xylene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Styrene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Toluene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Trichloroethene (TCE)	0.240	0.260	0.500	8.00	NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL03006-006 / RL03006-007	Vinyl Chloride	ND	ND	0.500		NA	OK

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Location	Analysis
JWMW-07C	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Aluminum	ND	ND	200		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Calcium	158000	168000	5000	6.13	OK	NA
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Iron	1410	1430	100	1.41	OK	NA
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Magnesium	40500	42700	5000	5.29	OK	NA
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Potassium	ND	ND	5000		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Sodium	163000	173000	10000	5.95	OK	NA

Location	Analysis
JWMW-07C	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Antimony	ND	ND	2.00		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Arsenic	6.30	6.30	6.30	0.00	NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Barium	143	145	10.0	1.39	OK	NA
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Beryllium	ND	ND	1.00		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Cadmium	ND	ND	1.00		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Chromium	2.80	3.00	2.00	6.90	OK	NA
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Cobalt	0.680	0.700	1.00	2.90	NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Copper	0.690	0.560	2.00	20.8	NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Lead	ND	ND	1.00		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Manganese	650	630	1.00	3.13	OK	NA
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Nickel	5.10	4.80	1.00	6.06	OK	NA
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Selenium	1.50	2.00	5.00	28.6	NA	OK

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Location	Analysis
JWMW-07C	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Silver	ND	ND	1.00		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Thallium	ND	ND	1.00		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Vanadium	ND	ND	5.00		NA	OK
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Zinc	3.10	2.20	2.00	34.0	OK	NA

Location	Analysis
JWMW-07C	E300

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	1612025-06RE1 / 1612025-07RE1	Chloride	72.0	72.0	10.0	0.00	OK	NA
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	1612025-06RE1 / 1612025-07RE1	Sulfate (as SO4)	400	410	5.00	2.47	OK	NA

Location	Analysis
JWMW-07C	E415.3

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	1612025-06 / 1612025-07	Total Organic Carbon	2.80	3.10	0.500	10.2	OK	NA

Location	Analysis
JWMW-07C	SW7470A

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Dec 1 2016	JWMW-07C-1116 / JWMW-97C-1116	RL01005-002 / RL01005-003	Mercury	ND	ND	0.200		NA	OK

Location	**Analysis**
JWMW-08B	A2320

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	1612001-03 / 1612001-05	Alkalinity, Bicarbonate (as CaCO3)	620	570	10.0	8.40	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	1612001-03 / 1612001-05	Alkalinity, Carbonate (as CaCO3)	ND	ND	10.0		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	1612001-03 / 1612001-05	Alkalinity, Hydroxide (as CaCO3)	ND	ND	10.0		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	1612001-03 / 1612001-05	Alkalinity, Total (as CaCO3)	620	570	10.0	8.40	OK	NA

Location	**Analysis**
JWMW-08B	A2540C

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	1612001-03 / 1612001-05	Total Dissolved Solids	3600	3400	20.0	5.71	OK	NA

Location	**Analysis**
JWMW-08B	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,4-Dioxane (p-Dioxane)	0.480	0.510	0.480	6.06	NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,4-Dioxane (p-Dioxane)	0.430	0.400	0.380	7.23	OK	NA

Location	**Analysis**
JWMW-08B	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,2,4,5-Tetrachlorobenzene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,4-Dioxane (p-Dioxane)	0.600	0.600	1.90	0.00	NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2,3,4,6-Tetrachlorophenol	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2,4,5-Trichlorophenol	ND	ND	4.80		NA	OK

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Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2,4,6-Trichlorophenol	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2,4-Dichlorophenol	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2,4-Dimethylphenol	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2,4-Dinitrophenol	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2,4-Dinitrotoluene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2,6-Dinitrotoluene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2-Chloronaphthalene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2-Chlorophenol	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2-Methylnaphthalene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2-Methylphenol (o-Cresol)	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2-Nitroaniline	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2-Nitrophenol	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	3,3'-Dichlorobenzidine	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	3-Nitroaniline	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	4,6-Dinitro-2-Methylphenol	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	4-Bromophenyl phenyl ether	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	4-Chloro-3-Methylphenol	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	4-Chloroaniline	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	4-Chlorophenyl Phenyl Ether	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	4-Methylphenol (p-Cresol)	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	4-Nitroaniline	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	4-Nitrophenol	ND	ND	9.50		NA	OK

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Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Acenaphthene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Acenaphthylene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Acetophenone	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Anthracene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Atrazine	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Benzaldehyde	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Benzo(a)anthracene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Benzo(a)pyrene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Benzo(b)fluoranthene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Benzo(g,h,i)perylene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Benzo(k)fluoranthene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Benzyl butyl phthalate	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Biphenyl (Diphenyl)	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	bis(2-Chloroethoxy) Methane	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	bis(2-Chloroisopropyl) Ether	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	bis(2-Ethylhexyl) Phthalate	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Caprolactam	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Carbazole	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Chrysene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Di-n-Butyl Phthalate	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Di-n-Octylphthalate	ND	ND	9.50		NA	OK

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Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Dibenz(a,h)anthracene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Dibenzofuran	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Diethyl Phthalate	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Dimethyl Phthalate	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Fluoranthene	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Fluorene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Hexachlorobenzene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Hexachlorobutadiene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Hexachlorocyclopentadiene	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Hexachloroethane	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Indeno(1,2,3-c,d)pyrene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Isophorone	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	n-Nitrosodi-n-propylamine	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	n-Nitrosodiphenylamine	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Naphthalene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Nitrobenzene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Pentachlorophenol	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Phenanthrene	ND	ND	4.80		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Phenol	ND	ND	9.50		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Pyrene	ND	ND	4.80		NA	OK

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Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,2-Dichloroethane	4.40	4.20	0.500	4.65	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,2-Dichloropropane	0.280	0.220	0.500	24.0	NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	2-Hexanone	ND	ND	5.00		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Acetone	5.30	6.30	5.00	17.2	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Benzene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Bromochloromethane	ND	ND	0.500		NA	OK

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Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Bromodichloromethane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Bromoform	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Bromomethane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Carbon Disulfide	0.350	0.420	0.500	18.2	NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Chlorobenzene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Chloroethane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Chloroform	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Chloromethane	0.200	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	cis-1,2-Dichloroethylene	2.20	2.10	0.500	4.65	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Cyclohexane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Dibromochloromethane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Ethylbenzene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	m,p-Xylene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Methyl Acetate	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Methylcyclohexane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Methylene Chloride	0.380	0.370	0.500	2.67	NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	o-Xylene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Styrene	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JWMW-08B	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Toluene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Trichloroethene (TCE)	3.10	2.90	0.500	6.67	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29023-023 / RK29023-019	Vinyl Chloride	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,1-Dichloroethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,1-Dichloroethene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,2-Dibromo-3-chloropropane	ND	ND	1.00		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,2-Dichloroethane	4.50	4.60	0.500	2.20	OK	NA
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,2-Dichloropropane	ND	ND	0.500		NA	OK

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May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	2-Butanone (MEK)	ND	ND	5.00		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	2-Hexanone	ND	ND	5.00		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Acetone	3.80	ND	5.00		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Benzene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Bromochloromethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Bromodichloromethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Bromoform	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Bromomethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Carbon Disulfide	0.330	0.270	0.500	20.0	NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Carbon Tetrachloride	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Chlorobenzene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Chloroethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Chloroform	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Chloromethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	cis-1,2-Dichloroethylene	1.30	1.30	0.500	0.00	OK	NA
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Cyclohexane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Dibromochloromethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Dichlorodifluoromethane	ND	ND	0.500		NA	OK

Location	Analysis
JWMW-08B	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Ethylbenzene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	m,p-Xylene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Methyl Acetate	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Methylcyclohexane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Methylene Chloride	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	o-Xylene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Styrene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Toluene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Trichloroethene (TCE)	0.610	0.610	0.500	0.00	OK	NA
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Trichlorofluoromethane	ND	ND	0.500		NA	OK
May 2 2017	JWMW-08B-0517 / JWMW-98B-0517	SE02018-014 / SE02018-012	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
JWMW-08B	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Aluminum	ND	247	200		NA	247
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Calcium	332000	322000	50000	3.06	OK	NA

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Location	Analysis
JWMW-08B	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Iron	1450	1880	100	25.8	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Magnesium	103000	107000	5000	3.81	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Potassium	16000	16600	16000	3.68	NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Sodium	712000	690000	50000	3.14	OK	NA

Location	Analysis
JWMW-08B	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Antimony	ND	ND	2.00		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Arsenic	86.2	90.7	1.00	5.09	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Barium	71.8	77.7	10.0	7.89	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Beryllium	ND	ND	1.00		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Cadmium	ND	ND	1.00		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Chromium	14.5	16.9	2.00	15.3	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Cobalt	0.690	0.890	1.00	25.3	NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Copper	0.790	1.80	2.00	78.0	NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Lead	ND	ND	1.00		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Manganese	1610	1690	2.00	4.85	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Nickel	11.9	14.0	1.00	16.2	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Selenium	3.00	3.30	5.00	9.52	NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Silver	ND	ND	1.00		NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Thallium	ND	ND	1.00		NA	OK

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Location	Analysis
JWMW-08B	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Vanadium	5.60	7.40	5.60	27.7	NA	OK
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Zinc	ND	1.70	2.00		NA	OK

Location	Analysis
JWMW-08B	E300

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	1612001-03RE1 / 1612001-05RE1	Chloride	330	320	20.0	3.08	OK	NA
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	1612001-03 / 1612001-05	Sulfate (as SO4)	1500	1500	50.0	0.00	OK	NA

Location	Analysis
JWMW-08B	E415.3

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	1612001-03RE1 / 1612001-05RE1	Total Organic Carbon	160	160	3.50	0.00	OK	NA

Location	Analysis
JWMW-08B	SW7470A

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 30 2016	JWMW-08B-1116 / JWMW-98B-1116	RK29022-014 / RK29022-012	Mercury	ND	ND	0.200		NA	OK

Location	Analysis
JWMW-11B	A2320

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	1611066-02 / 1611066-05	Alkalinity, Bicarbonate (as CaCO3)	720	710	10.0	1.40	OK	NA

Location	**Analysis**
JWMW-11B	A2320

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	1611066-02 / 1611066-05	Alkalinity, Carbonate (as CaCO3)	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	1611066-02 / 1611066-05	Alkalinity, Hydroxide (as CaCO3)	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	1611066-02 / 1611066-05	Alkalinity, Total (as CaCO3)	720	710	10.0	1.40	OK	NA

Location	**Analysis**
JWMW-11B	A2540C

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	1611066-02 / 1611066-05	Total Dissolved Solids	4600	4600	20.0	0.00	OK	NA

Location	**Analysis**
JWMW-11B	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,4-Dioxane (p-Dioxane)	43.0	44.0	9.50	2.30	OK	NA

Location	**Analysis**
JWMW-11B	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,2,4,5-Tetrachlorobenzene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,4-Dioxane (p-Dioxane)	41.0	30.0	3.80	31.0	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2,3,4,6-Tetrachlorophenol	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2,4,5-Trichlorophenol	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2,4,6-Trichlorophenol	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2,4-Dichlorophenol	ND	ND	4.80		NA	OK

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JWMW-11B	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2,4-Dimethylphenol	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2,4-Dinitrophenol	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2,4-Dinitrotoluene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2,6-Dinitrotoluene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2-Chloronaphthalene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2-Chlorophenol	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2-Methylnaphthalene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2-Methylphenol (o-Cresol)	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2-Nitroaniline	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2-Nitrophenol	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	3,3'-Dichlorobenzidine	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	3-Nitroaniline	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	4,6-Dinitro-2-Methylphenol	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	4-Bromophenyl phenyl ether	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	4-Chloro-3-Methylphenol	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	4-Chloroaniline	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	4-Chlorophenyl Phenyl Ether	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	4-Methylphenol (p-Cresol)	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	4-Nitroaniline	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	4-Nitrophenol	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Acenaphthene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Acenaphthylene	ND	ND	4.80		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JWMW-11B	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Acetophenone	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Anthracene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Atrazine	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Benzaldehyde	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Benzo(a)anthracene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Benzo(a)pyrene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Benzo(b)fluoranthene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Benzo(g,h,i)perylene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Benzo(k)fluoranthene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Benzyl butyl phthalate	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Biphenyl (Diphenyl)	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	bis(2-Chloroethoxy) Methane	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	bis(2-Chloroisopropyl) Ether	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	bis(2-Ethylhexyl) Phthalate	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Caprolactam	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Carbazole	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Chrysene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Di-n-Butyl Phthalate	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Di-n-Octylphthalate	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Dibenz(a,h)anthracene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Dibenzofuran	ND	ND	4.80		NA	OK

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JWMW-11B	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Diethyl Phthalate	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Dimethyl Phthalate	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Fluoranthene	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Fluorene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Hexachlorobenzene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Hexachlorobutadiene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Hexachlorocyclopentadiene	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Hexachloroethane	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Indeno(1,2,3-c,d)pyrene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Isophorone	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	n-Nitrosodi-n-propylamine	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	n-Nitrosodiphenylamine	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Naphthalene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Nitrobenzene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Pentachlorophenol	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Phenanthrene	ND	ND	4.80		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Phenol	ND	ND	9.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Pyrene	ND	ND	4.80		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JWMW-11B	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,1,1-Trichloroethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,1,2,2-Tetrachloroethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,1,2-Trichloroethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,1-Dichloroethane	8.30	8.20	10.0	1.21	NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,1-Dichloroethene	17.0	17.0	10.0	0.00	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,2,3-Trichlorobenzene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,2,3-Trichloropropane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,2,4-Trichlorobenzene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,2-Dibromo-3-chloropropane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,2-Dibromoethane (EDB)	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,2-Dichlorobenzene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,2-Dichloroethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,2-Dichloropropane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,3-Dichlorobenzene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	1,4-Dichlorobenzene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2-Butanone (MEK)	ND	ND	100		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	2-Hexanone	ND	ND	100		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	4-Methyl-2-pentanone (MIBK)	ND	ND	100		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Acetone	ND	ND	100		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Benzene	2.80	2.70	10.0	3.64	NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Bromochloromethane	ND	ND	10.0		NA	OK

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Location	Analysis
JWMW-11B	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Bromodichloromethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Bromoform	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Bromomethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Carbon Disulfide	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Carbon Tetrachloride	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Chlorobenzene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Chloroethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Chloroform	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Chloromethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	cis-1,2-Dichloroethylene	1600	1600	100	0.00	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	cis-1,3-Dichloropropene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Cyclohexane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Dibromochloromethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Dichlorodifluoromethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Ethylbenzene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Isopropylbenzene (Cumene)	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	m,p-Xylene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Methyl Acetate	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Methylcyclohexane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Methylene Chloride	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	o-Xylene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Styrene	ND	ND	10.0		NA	OK

Location	Analysis
JWMW-11B	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	tert-Butyl Methyl Ether (MTBE)	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Tetrachloroethene (PCE)	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Toluene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	trans-1,2-Dichloroethene	38.0	39.0	10.0	2.60	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	trans-1,3-Dichloropropene	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Trichloroethene (TCE)	3.60	2.80	10.0	25.0	NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Trichlorofluoromethane	ND	ND	10.0		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29023-015 / RK29023-016	Vinyl Chloride	ND	ND	10.0		NA	OK

Location	Analysis
JWMW-11B	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Aluminum	882	699	200	23.1	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Calcium	371000	367000	50000	1.08	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Iron	3100	2630	100	16.4	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Magnesium	187000	183000	5000	2.16	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Potassium	16400	15700	16400	4.36	NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Sodium	829000	816000	50000	1.58	OK	NA

Location	Analysis
JWMW-11B	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Antimony	ND	ND	2.00		NA	OK

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Location	Analysis
JWMW-11B	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Arsenic	45.4	45.3	1.00	0.221	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Barium	42.9	42.5	10.0	0.937	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Beryllium	ND	ND	1.00		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Cadmium	ND	ND	1.00		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Chromium	3.80	3.60	3.80	5.41	NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Cobalt	2.00	1.90	1.00	5.13	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Copper	2.80	2.40	2.00	15.4	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Lead	ND	ND	1.00		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Manganese	3230	3330	5.00	3.05	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Nickel	6.40	6.00	1.00	6.45	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Selenium	2.90	3.10	5.00	6.67	NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Silver	ND	ND	1.00		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Thallium	ND	ND	1.00		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Vanadium	5.50	ND	5.50		NA	OK
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Zinc	6.90	5.00	2.00	31.9	OK	NA

Location	Analysis
JWMW-11B	E300

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	1611066-02RE1 / 1611066-05RE1	Chloride	120	120	10.0	0.00	OK	NA
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	1611066-02 / 1611066-05	Sulfate (as SO4)	2600	2600	50.0	0.00	OK	NA

Location	Analysis
JWMW-11B	E415.3

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	1611066-02 / 1611066-05	Total Organic Carbon	4.80	4.60	0.500	4.26	OK	NA

Location	Analysis
JWMW-11B	SW7470A

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Nov 29 2016	JWMW-11B-1116 / JWMW-911B-1116	RK29022-008 / RK29022-009	Mercury	ND	ND	0.200		NA	OK

Location	Analysis
JWMW-11C	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,4-Dioxane (p-Dioxane)	1.10	1.10	0.380	0.00	OK	NA

Location	Analysis
JWMW-11C	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,1-Dichloroethane	0.150	0.140	0.500	6.90	NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,1-Dichloroethene	0.200	0.200	0.500	0.00	NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JWMW-11C	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,2-Dibromo-3-chloropropane	ND	ND	1.00		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,2-Dichloroethane	1.40	1.40	0.500	0.00	OK	NA
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,2-Dichloropropane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	2-Butanone (MEK)	ND	ND	5.00		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	2-Hexanone	ND	ND	5.00		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Acetone	ND	ND	5.00		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Benzene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Bromochloromethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Bromodichloromethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Bromoform	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Bromomethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Carbon Disulfide	0.480	0.400	0.500	18.2	NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Carbon Tetrachloride	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Chlorobenzene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Chloroethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Chloroform	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JWMW-11C	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Chloromethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	cis-1,2-Dichloroethylene	18.0	21.0	2.50	15.4	OK	NA
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Cyclohexane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Dibromochloromethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Ethylbenzene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	m,p-Xylene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Methyl Acetate	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Methylcyclohexane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Methylene Chloride	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	o-Xylene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Styrene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Toluene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	trans-1,2-Dichloroethene	1.10	1.10	0.500	0.00	OK	NA
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Trichloroethene (TCE)	0.990	1.00	0.500	1.01	OK	NA
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Trichlorofluoromethane	ND	ND	0.500		NA	OK
May 4 2017	JWMW-11C-0517 / JWMW-911C-0517	SE04019-012 / SE04019-013	Vinyl Chloride	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG07	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1508-12 / G1508-13	Mercury	0.0390	0.0610	0.110	44.0	NA	OK

Location	Analysis
JW-SB/SG07	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	1,2,4,5-Tetrachlorobenzene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2,3,4,6-Tetrachlorophenol	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2,4,5-Trichlorophenol	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2,4,6-Trichlorophenol	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2,4-Dichlorophenol	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2,4-Dimethylphenol	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2,4-Dinitrophenol	ND	ND	380		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2,4-Dinitrotoluene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2,6-Dinitrotoluene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2-Chloronaphthalene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2-Chlorophenol	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2-Methylnaphthalene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2-Methylphenol (o-Cresol)	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2-Nitroaniline	ND	ND	380		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	2-Nitrophenol	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	3,3'-Dichlorobenzidine	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	3-Nitroaniline	ND	ND	380		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG07	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	4,6-Dinitro-2-Methylphenol	ND	ND	380		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	4-Bromophenyl phenyl ether	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	4-Chloro-3-Methylphenol	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	4-Chloroaniline	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	4-Chlorophenyl Phenyl Ether	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	4-Methylphenol (p-Cresol)	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	4-Nitroaniline	ND	ND	380		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	4-Nitrophenol	ND	ND	380		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Acenaphthene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Acenaphthylene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Acetophenone	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Anthracene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Atrazine	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Benzaldehyde	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Benzo(a)anthracene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Benzo(a)pyrene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Benzo(b)fluoranthene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Benzo(g,h,i)perylene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Benzo(k)fluoranthene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Benzyl butyl phthalate	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Biphenyl (Diphenyl)	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	bis(2-Chloroethoxy) Methane	ND	ND	190		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG07	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	bis(2-Chloroisopropyl) Ether	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	bis(2-Ethylhexyl) Phthalate	98.0	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Caprolactam	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Carbazole	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Chrysene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Di-n-Butyl Phthalate	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Di-n-Octylphthalate	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Dibenz(a,h)anthracene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Dibenzofuran	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Diethyl Phthalate	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Dimethyl Phthalate	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Fluoranthene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Fluorene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Hexachlorobenzene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Hexachlorobutadiene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Hexachlorocyclopentadiene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Hexachloroethane	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Indeno(1,2,3-c,d)pyrene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Isophorone	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	n-Nitrosodi-n-propylamine	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	n-Nitrosodiphenylamine	ND	ND	190		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG07	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Naphthalene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Nitrobenzene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Pentachlorophenol	ND	ND	380		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Phenanthrene	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Phenol	ND	ND	190		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	Pyrene	ND	ND	190		NA	OK

Location	Analysis
JW-SB/SG07	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1508-12 / G1508-13	Aluminum	12500	13000	16.8	3.92	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1508-12 / G1508-13	Calcium	7080	7230	420	2.10	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1508-12 / G1508-13	Iron	21200	20900	8.40	1.43	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1508-12 / G1508-13	Magnesium	6890	7650	420	10.5	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1508-12 / G1508-13	Potassium	4070	4550	420	11.1	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1508-12 / G1508-13	Sodium	397	554	420	33.0	NA	OK

Location	Analysis
JW-SB/SG07	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Antimony	ND	ND	0.790		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Arsenic	1.90	2.00	0.390	5.13	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Barium	141	151	3.90	6.85	OK	NA

Location	Analysis
JW-SB/SG07	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Beryllium	0.430	0.450	0.390	4.55	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Cadmium	ND	ND	0.390		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Chromium	17.4	19.2	0.790	9.84	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Cobalt	9.90	9.90	0.390	0.00	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Copper	19.0	21.2	0.790	10.9	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Lead	5.00	8.20	0.390	48.5	Out	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Manganese	398	401	3.90	0.751	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Nickel	13.9	14.6	0.390	4.91	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Selenium	0.0400	ND	2.00		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Silver	ND	ND	0.390		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Thallium	0.200	0.220	0.390	9.52	NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Vanadium	39.8	41.0	2.00	2.97	OK	NA
Mar 12 2015	JW-SB07-5 / JW-SB07-6	G1510-12 / G1510-13	Zinc	61.4	69.6	0.790	12.5	OK	NA

Location	Analysis
JW-SB/SG07	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	PCB-1016 (Arochlor 1016)	ND	ND	38.0		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	PCB-1221 (Arochlor 1221)	ND	ND	38.0		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	PCB-1232 (Arochlor 1232)	ND	ND	38.0		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	PCB-1242 (Arochlor 1242)	ND	ND	38.0		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	PCB-1248 (Arochlor 1248)	ND	ND	38.0		NA	OK

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Location	Analysis
JW-SB/SG07	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	PCB-1254 (Arochlor 1254)	ND	ND	38.0		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	PCB-1260 (Arochlor 1260)	ND	ND	38.0		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	PCB-1262 (Arochlor 1262)	ND	ND	38.0		NA	OK
Mar 12 2015	JW-SB07-5 / JW-SB07-6	1503051-03 / 1503051-04	PCB-1268 (Arochlor 1268)	ND	ND	38.0		NA	OK

Location	Analysis
JW-SB/SG07	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1,1,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1,2,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1,2-Trichloroethane	ND	ND	55.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,2,4-Trichlorobenzene	ND	ND	75.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,2,4-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,3,5-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,4-Dichlorobenzene	ND	ND	61.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK

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Location	Analysis
JW-SB/SG07	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Benzene	ND	ND	16.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Bromodichloromethane	ND	ND	68.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Bromomethane	ND	ND	39.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Chloroethane	ND	ND	27.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Chloroform	ND	ND	25.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Chloromethane	ND	ND	21.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Dichlorodifluoromethane	ND	ND	50.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Ethylbenzene	ND	ND	22.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Isopropylbenzene (Cumene)	ND	ND	50.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	m,p-Xylene	ND	ND	44.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Methylene Chloride	ND	ND	35.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	n-Butylbenzene	ND	ND	28.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	n-Propylbenzene	ND	ND	50.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Naphthalene	ND	ND	27.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	o-Xylene	ND	ND	22.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	sec-Butylbenzene	ND	ND	28.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	tert-Butylbenzene	ND	ND	56.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Tetrachloroethene (PCE)	68.0	39.0	34.0	54.2	Out	NA
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Toluene	ND	ND	38.0		NA	OK

Location	Analysis
JW-SB/SG07	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Trichloroethene (TCE)	180	240	27.0	28.6	OK	NA
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Trichlorofluoromethane	ND	ND	56.0		NA	OK
Mar 26 2015	SB/SG07-5 / SB/SG07-5 Rep	E503117-06 / E503117-07	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
JW-SB/SG09	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1480-06 / G1480-07	Mercury	0.0790	0.0220	0.120	113	NA	OK

Location	Analysis
JW-SB/SG09	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,2,4,5-Tetrachlorobenzene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2,3,4,6-Tetrachlorophenol	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2,4,5-Trichlorophenol	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2,4,6-Trichlorophenol	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2,4-Dichlorophenol	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2,4-Dimethylphenol	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2,4-Dinitrophenol	ND	ND	360		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2,4-Dinitrotoluene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2,6-Dinitrotoluene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2-Chloronaphthalene	ND	ND	190		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2-Chlorophenol	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2-Methylnaphthalene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2-Methylphenol (o-Cresol)	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2-Nitroaniline	ND	ND	360		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2-Nitrophenol	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	3,3'-Dichlorobenzidine	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	3-Nitroaniline	ND	ND	360		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	4,6-Dinitro-2-Methylphenol	ND	ND	360		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	4-Bromophenyl phenyl ether	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	4-Chloro-3-Methylphenol	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	4-Chloroaniline	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	4-Chlorophenyl Phenyl Ether	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	4-Methylphenol (p-Cresol)	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	4-Nitroaniline	ND	ND	360		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	4-Nitrophenol	ND	ND	360		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Acenaphthene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Acenaphthylene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Acetophenone	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Anthracene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Atrazine	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Benzaldehyde	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Benzo(a)anthracene	ND	ND	190		NA	OK

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Location	Analysis
JW-SB/SG09	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Benzo(a)pyrene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Benzo(b)fluoranthene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Benzo(g,h,i)perylene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Benzo(k)fluoranthene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Benzyl butyl phthalate	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Biphenyl (Diphenyl)	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	bis(2-Chloroethoxy) Methane	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	bis(2-Chloroisopropyl) Ether	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	bis(2-Ethylhexyl) Phthalate	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Caprolactam	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Carbazole	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Chrysene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Di-n-Butyl Phthalate	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Di-n-Octylphthalate	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Dibenz(a,h)anthracene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Dibenzofuran	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Diethyl Phthalate	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Dimethyl Phthalate	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Fluoranthene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Fluorene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Hexachlorobenzene	ND	ND	190		NA	OK

Location	Analysis
JW-SB/SG09	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Hexachlorobutadiene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Hexachlorocyclopentadiene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Hexachloroethane	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Indeno(1,2,3-c,d)pyrene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Isophorone	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	n-Nitrosodi-n-propylamine	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	n-Nitrosodiphenylamine	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Naphthalene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Nitrobenzene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Pentachlorophenol	ND	ND	360		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Phenanthrene	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Phenol	ND	ND	190		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Pyrene	ND	ND	190		NA	OK

Location	Analysis
JW-SB/SG09	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,1,1-Trichloroethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,1,2,2-Tetrachloroethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,1,2-Trichloroethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,1-Dichloroethane	ND	ND	5.30		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG09	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,1-Dichloroethene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,2,3-Trichlorobenzene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,2,3-Trichloropropane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,2,4-Trichlorobenzene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,2-Dibromo-3-chloropropane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,2-Dibromoethane (EDB)	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,2-Dichlorobenzene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,2-Dichloroethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,2-Dichloropropane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,3-Dichlorobenzene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,4-Dichlorobenzene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	1,4-Dioxane (p-Dioxane)	ND	ND	110		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2-Butanone (MEK)	ND	ND	11.0		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	2-Hexanone	ND	ND	11.0		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	4-Methyl-2-pentanone (MIBK)	ND	ND	11.0		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Acetone	4.50	7.40	11.0	48.7	NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Benzene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Bromochloromethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Bromodichloromethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Bromoform	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Bromomethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Carbon Disulfide	ND	ND	5.30		NA	OK

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Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Carbon Tetrachloride	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Chlorobenzene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Chloroethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Chloroform	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Chloromethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	cis-1,2-Dichloroethylene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	cis-1,3-Dichloropropene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Cyclohexane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Dibromochloromethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Dichlorodifluoromethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Ethylbenzene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Isopropylbenzene (Cumene)	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	m,p-Xylene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Methyl Acetate	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Methylcyclohexane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Methylene Chloride	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	o-Xylene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Styrene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Tetrachloroethene (PCE)	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Toluene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	trans-1,2-Dichloroethene	ND	ND	5.30		NA	OK

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Field Duplicate Report By Event and Site
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Location	Analysis
JW-SB/SG09	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	trans-1,3-Dichloropropene	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Trichloroethene (TCE)	1.50	8.80	5.30	142	NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Trichlorofluoromethane	ND	ND	5.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	Vinyl Chloride	ND	ND	5.30		NA	OK

Location	Analysis
JW-SB/SG09	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1480-06 / G1480-07	Aluminum	16400	9640	16.4	51.9	Out	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1480-06 / G1480-07	Calcium	6980	5600	411	21.9	OK	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1480-06 / G1480-07	Iron	26000	19400	8.20	29.1	OK	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1480-06 / G1480-07	Magnesium	7870	5780	411	30.6	OK	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1480-06 / G1480-07	Potassium	4000	3210	411	21.9	OK	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1480-06 / G1480-07	Sodium	2120	445	411	131	Out	NA

Location	Analysis
JW-SB/SG09	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Antimony	ND	ND	0.910		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Arsenic	2.60	1.50	0.460	53.7	Out	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Barium	148	94.3	4.60	44.3	Out	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Beryllium	0.590	0.240	0.460	84.3	NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Cadmium	0.170	0.0960	0.460	55.6	NA	OK

Data Quality Summary Report
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Location	Analysis
JW-SB/SG09	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Chromium	18.6	11.2	0.910	49.7	Out	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Cobalt	10.2	6.50	0.460	44.3	Out	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Copper	26.4	10.9	0.910	83.1	Out	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Lead	6.10	2.40	0.460	87.1	Out	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Manganese	336	236	4.60	35.0	OK	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Nickel	14.1	9.00	0.460	44.2	Out	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Selenium	ND	ND	2.30		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Silver	0.0380	0.00990	0.460	117	NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Thallium	0.200	0.150	0.460	28.6	NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Vanadium	49.6	28.3	2.30	54.7	Out	NA
Mar 9 2015	JW-SB09-15 / JW-SB09-16	G1482-06 / G1482-07	Zinc	68.2	44.5	0.910	42.1	Out	NA

Location	Analysis
JW-SB/SG09	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	PCB-1016 (Arochlor 1016)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	PCB-1221 (Arochlor 1221)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	PCB-1232 (Arochlor 1232)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	PCB-1242 (Arochlor 1242)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	PCB-1248 (Arochlor 1248)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	PCB-1254 (Arochlor 1254)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	PCB-1260 (Arochlor 1260)	ND	ND	36.0		NA	OK

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Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG09	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	PCB-1262 (Arochlor 1262)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB09-15 / JW-SB09-16	1503023-04 / 1503023-05	PCB-1268 (Arochlor 1268)	ND	ND	36.0		NA	OK

Location	Analysis
JW-SB/SG09	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1,1,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1,2,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1,2-Trichloroethane	ND	ND	55.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,2,4-Trichlorobenzene	ND	ND	75.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,2,4-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,3,5-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,4-Dichlorobenzene	ND	ND	61.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Benzene	ND	ND	16.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Bromodichloromethane	ND	ND	68.0		NA	OK

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Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG09	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Bromomethane	ND	ND	39.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Chloroethane	ND	ND	27.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Chloroform	ND	ND	25.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Chloromethane	ND	ND	21.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Dichlorodifluoromethane	ND	ND	50.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Ethylbenzene	ND	ND	22.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Isopropylbenzene (Cumene)	ND	ND	50.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	m,p-Xylene	ND	ND	44.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Methylene Chloride	ND	ND	35.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	n-Butylbenzene	ND	ND	28.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	n-Propylbenzene	ND	ND	50.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Naphthalene	ND	ND	27.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	o-Xylene	ND	ND	22.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	sec-Butylbenzene	ND	ND	28.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	tert-Butylbenzene	ND	ND	56.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Tetrachloroethene (PCE)	1000	1000	34.0	0.00	OK	NA
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Toluene	200	220	38.0	9.52	OK	NA
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Trichloroethene (TCE)	3100	2800	27.0	10.2	OK	NA

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Location	Analysis
JW-SB/SG09	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Trichlorofluoromethane	ND	ND	56.0		NA	OK
Mar 25 2015	SB/SG09-15 / SB/SG09-15 Rep	E503112-05 / E503112-06	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
JW-SB/SG10	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1,1,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1,1-Trichloroethane	50.0	38.0	28.0	27.3	OK	NA
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1,2,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1,2-Trichloroethane	ND	ND	55.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,2,4-Trichlorobenzene	ND	ND	75.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,2,4-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,3,5-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,4-Dichlorobenzene	ND	ND	61.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Benzene	ND	ND	16.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Bromodichloromethane	ND	ND	68.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Bromomethane	ND	ND	39.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Chloroethane	ND	ND	27.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Chloroform	ND	ND	25.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Chloromethane	ND	ND	21.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Dichlorodifluoromethane	ND	ND	50.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Ethylbenzene	ND	ND	22.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Isopropylbenzene (Cumene)	ND	ND	50.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	m,p-Xylene	ND	ND	44.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Methylene Chloride	ND	ND	35.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	n-Butylbenzene	ND	ND	28.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	n-Propylbenzene	ND	ND	50.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Naphthalene	ND	ND	27.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	o-Xylene	ND	ND	22.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	sec-Butylbenzene	ND	ND	28.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	tert-Butylbenzene	ND	ND	56.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Tetrachloroethene (PCE)	2900	2800	34.0	3.51	OK	NA
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Toluene	ND	ND	38.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Trichloroethene (TCE)	290	250	27.0	14.8	OK	NA

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Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Trichlorofluoromethane	ND	ND	56.0		NA	OK
Mar 27 2015	SB/SG10-5 / SB/SG10-5 Rep	E503131-07 / E503131-08	Vinyl Chloride	ND	ND	13.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1480-10 / G1480-11	Mercury	0.0220	0.0310	0.0970	34.0	NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1480-13 / G1480-14	Mercury	0.0390	0.0410	0.120	5.00	NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,2,4,5-Tetrachlorobenzene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,2,4,5-Tetrachlorobenzene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2,3,4,6-Tetrachlorophenol	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2,3,4,6-Tetrachlorophenol	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2,4,5-Trichlorophenol	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2,4,5-Trichlorophenol	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2,4,6-Trichlorophenol	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2,4,6-Trichlorophenol	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2,4-Dichlorophenol	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2,4-Dichlorophenol	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2,4-Dimethylphenol	ND	ND	180		NA	OK

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Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2,4-Dimethylphenol	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2,4-Dinitrophenol	ND	ND	360		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2,4-Dinitrophenol	ND	ND	380		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2,4-Dinitrotoluene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2,4-Dinitrotoluene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2,6-Dinitrotoluene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2,6-Dinitrotoluene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2-Chloronaphthalene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2-Chloronaphthalene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2-Chlorophenol	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2-Chlorophenol	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2-Methylnaphthalene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2-Methylnaphthalene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2-Methylphenol (o-Cresol)	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2-Methylphenol (o-Cresol)	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2-Nitroaniline	ND	ND	360		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2-Nitroaniline	ND	ND	380		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2-Nitrophenol	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2-Nitrophenol	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	3,3'-Dichlorobenzidine	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	3,3'-Dichlorobenzidine	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	3-Nitroaniline	ND	ND	360		NA	OK

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Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	3-Nitroaniline	ND	ND	380		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	4,6-Dinitro-2-Methylphenol	ND	ND	360		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	4,6-Dinitro-2-Methylphenol	ND	ND	380		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	4-Bromophenyl phenyl ether	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	4-Bromophenyl phenyl ether	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	4-Chloro-3-Methylphenol	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	4-Chloro-3-Methylphenol	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	4-Chloroaniline	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	4-Chloroaniline	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	4-Chlorophenyl Phenyl Ether	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	4-Chlorophenyl Phenyl Ether	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	4-Methylphenol (p-Cresol)	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	4-Methylphenol (p-Cresol)	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	4-Nitroaniline	ND	ND	360		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	4-Nitroaniline	ND	ND	380		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	4-Nitrophenol	ND	ND	360		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	4-Nitrophenol	ND	ND	380		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Acenaphthene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Acenaphthene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Acenaphthylene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Acenaphthylene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Acetophenone	ND	ND	180		NA	OK

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Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Acetophenone	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Anthracene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Anthracene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Atrazine	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Atrazine	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Benzaldehyde	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Benzaldehyde	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Benzo(a)anthracene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Benzo(a)anthracene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Benzo(a)pyrene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Benzo(a)pyrene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Benzo(b)fluoranthene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Benzo(b)fluoranthene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Benzo(g,h,i)perylene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Benzo(g,h,i)perylene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Benzo(k)fluoranthene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Benzo(k)fluoranthene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Benzyl butyl phthalate	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Benzyl butyl phthalate	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Biphenyl (Diphenyl)	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Biphenyl (Diphenyl)	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	bis(2-Chloroethoxy) Methane	ND	ND	180		NA	OK

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Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	bis(2-Chloroethoxy) Methane	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	bis(2-Chloroisopropyl) Ether	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	bis(2-Chloroisopropyl) Ether	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	bis(2-Ethylhexyl) Phthalate	610	94.0	180	147	NA	516
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	bis(2-Ethylhexyl) Phthalate	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Caprolactam	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Caprolactam	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Carbazole	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Carbazole	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Chrysene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Chrysene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Di-n-Butyl Phthalate	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Di-n-Butyl Phthalate	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Di-n-Octylphthalate	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Di-n-Octylphthalate	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Dibenz(a,h)anthracene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Dibenz(a,h)anthracene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Dibenzofuran	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Dibenzofuran	ND	ND	200		NA	OK

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Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Diethyl Phthalate	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Diethyl Phthalate	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Dimethyl Phthalate	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Dimethyl Phthalate	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Fluoranthene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Fluoranthene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Fluorene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Fluorene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Hexachlorobenzene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Hexachlorobenzene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Hexachlorobutadiene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Hexachlorobutadiene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Hexachlorocyclopentadiene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Hexachlorocyclopentadiene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Hexachloroethane	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Hexachloroethane	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Indeno(1,2,3-c,d)pyrene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Indeno(1,2,3-c,d)pyrene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Isophorone	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Isophorone	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	n-Nitrosodi-n-propylamine	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	n-Nitrosodi-n-propylamine	ND	ND	200		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	n-Nitrosodiphenylamine	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	n-Nitrosodiphenylamine	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Naphthalene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Naphthalene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Nitrobenzene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Nitrobenzene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Pentachlorophenol	ND	ND	360		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Pentachlorophenol	ND	ND	380		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Phenanthrene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Phenanthrene	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Phenol	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Phenol	ND	ND	200		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Pyrene	ND	ND	180		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Pyrene	ND	ND	200		NA	OK

Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,1,1-Trichloroethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,1,1-Trichloroethane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,1,2,2-Tetrachloroethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,1,2,2-Tetrachloroethane	ND	ND	5.80		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,1,2-Trichloroethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,1,2-Trichloroethane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,1-Dichloroethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,1-Dichloroethane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,1-Dichloroethene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,1-Dichloroethene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,2,3-Trichlorobenzene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,2,3-Trichlorobenzene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,2,3-Trichloropropane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,2,3-Trichloropropane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,2,4-Trichlorobenzene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,2,4-Trichlorobenzene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,2-Dibromo-3-chloropropane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,2-Dibromo-3-chloropropane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,2-Dibromoethane (EDB)	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,2-Dibromoethane (EDB)	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,2-Dichlorobenzene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,2-Dichlorobenzene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,2-Dichloroethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,2-Dichloroethane	ND	ND	5.80		NA	OK

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Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,2-Dichloropropane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,2-Dichloropropane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,3-Dichlorobenzene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,3-Dichlorobenzene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,4-Dichlorobenzene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,4-Dichlorobenzene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	1,4-Dioxane (p-Dioxane)	ND	ND	110		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	1,4-Dioxane (p-Dioxane)	ND	ND	120		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2-Butanone (MEK)	ND	ND	11.0		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2-Butanone (MEK)	ND	ND	12.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	2-Hexanone	ND	ND	11.0		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	2-Hexanone	ND	ND	12.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	4-Methyl-2-pentanone (MIBK)	ND	ND	11.0		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	4-Methyl-2-pentanone (MIBK)	ND	ND	12.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Acetone	7.10	7.30	11.0	2.78	NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Acetone	6.90	3.90	12.0	55.6	NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Benzene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Benzene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Bromochloromethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Bromochloromethane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Bromodichloromethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Bromodichloromethane	ND	ND	5.80		NA	OK

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Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Bromoform	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Bromoform	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Bromomethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Bromomethane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Carbon Disulfide	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Carbon Disulfide	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Carbon Tetrachloride	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Carbon Tetrachloride	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Chlorobenzene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Chlorobenzene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Chloroethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Chloroethane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Chloroform	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Chloroform	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Chloromethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Chloromethane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	cis-1,2-Dichloroethylene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	cis-1,2-Dichloroethylene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	cis-1,3-Dichloropropene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	cis-1,3-Dichloropropene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Cyclohexane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Cyclohexane	ND	ND	5.80		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Dibromochloromethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Dibromochloromethane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Dichlorodifluoromethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Dichlorodifluoromethane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Ethylbenzene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Ethylbenzene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Isopropylbenzene (Cumene)	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Isopropylbenzene (Cumene)	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	m,p-Xylene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	m,p-Xylene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Methyl Acetate	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Methyl Acetate	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Methylcyclohexane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Methylcyclohexane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Methylene Chloride	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Methylene Chloride	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	o-Xylene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	o-Xylene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Styrene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Styrene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.80		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Tetrachloroethene (PCE)	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Tetrachloroethene (PCE)	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Toluene	ND	0.500	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Toluene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	trans-1,2-Dichloroethene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	trans-1,2-Dichloroethene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	trans-1,3-Dichloropropene	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	trans-1,3-Dichloropropene	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Trichloroethene (TCE)	0.870	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Trichloroethene (TCE)	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Trichlorofluoromethane	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Trichlorofluoromethane	ND	ND	5.80		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	Vinyl Chloride	ND	ND	5.40		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	Vinyl Chloride	ND	ND	5.80		NA	OK

Location	Analysis
JW-SB/SG11	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1480-10 / G1480-11	Aluminum	7910	7900	16.1	0.127	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1480-13 / G1480-14	Aluminum	13700	13900	17.2	1.45	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1480-10 / G1480-11	Calcium	4330	4390	402	1.38	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1480-13 / G1480-14	Calcium	7090	7260	431	2.37	OK	NA

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG11	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1480-10 / G1480-11	Iron	15900	15900	8.00	0.00	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1480-13 / G1480-14	Iron	23300	23400	8.60	0.428	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1480-10 / G1480-11	Magnesium	4370	4340	402	0.689	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1480-13 / G1480-14	Magnesium	7060	7080	431	0.283	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1480-10 / G1480-11	Potassium	3190	3160	402	0.945	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1480-13 / G1480-14	Potassium	4290	4410	431	2.76	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1480-10 / G1480-11	Sodium	222	219	402	1.36	NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1480-13 / G1480-14	Sodium	388	371	431	4.48	NA	OK

Location	Analysis
JW-SB/SG11	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Antimony	ND	ND	0.800		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Antimony	ND	ND	0.860		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Arsenic	0.720	0.640	0.400	11.8	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Arsenic	1.80	1.70	0.430	5.71	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Barium	69.0	66.1	4.00	4.29	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Barium	121	113	4.30	6.84	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Beryllium	0.160	0.160	0.400	0.00	NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Beryllium	0.410	0.390	0.430	5.00	NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Cadmium	0.0870	0.0730	0.400	17.5	NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Cadmium	0.160	0.160	0.430	0.00	NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG11	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Chromium	7.80	7.20	0.800	8.00	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Chromium	15.8	15.2	0.860	3.87	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Cobalt	4.80	4.40	0.400	8.70	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Cobalt	9.90	9.00	0.430	9.52	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Copper	8.40	7.50	0.800	11.3	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Copper	18.3	17.3	0.860	5.62	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Lead	3.00	2.80	0.400	6.90	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Lead	4.40	3.90	0.430	12.0	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Manganese	187	177	4.00	5.49	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Manganese	411	366	4.30	11.6	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Nickel	6.10	5.50	0.400	10.3	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Nickel	12.6	11.9	0.430	5.71	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Selenium	0.0460	ND	2.00		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Selenium	0.0520	0.0650	2.10	22.2	NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Silver	0.0110	0.0100	0.400	9.52	NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Silver	0.0310	0.0330	0.430	6.25	NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Thallium	0.100	0.0990	0.400	1.01	NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Thallium	0.180	0.170	0.430	5.71	NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Vanadium	18.2	17.4	2.00	4.49	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Vanadium	36.0	33.3	2.10	7.79	OK	NA
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	G1482-10 / G1482-11	Zinc	34.6	31.8	0.800	8.43	OK	NA
Mar 9 2015	JW-SB11-5 / JW-SB11-6	G1482-13 / G1482-14	Zinc	59.7	54.7	0.860	8.74	OK	NA

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG11	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	PCB-1016 (Arochlor 1016)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	PCB-1016 (Arochlor 1016)	ND	ND	38.0		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	PCB-1221 (Arochlor 1221)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	PCB-1221 (Arochlor 1221)	ND	ND	38.0		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	PCB-1232 (Arochlor 1232)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	PCB-1232 (Arochlor 1232)	ND	ND	38.0		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	PCB-1242 (Arochlor 1242)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	PCB-1242 (Arochlor 1242)	ND	ND	38.0		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	PCB-1248 (Arochlor 1248)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	PCB-1248 (Arochlor 1248)	ND	ND	38.0		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	PCB-1254 (Arochlor 1254)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	PCB-1254 (Arochlor 1254)	ND	ND	38.0		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	PCB-1260 (Arochlor 1260)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	PCB-1260 (Arochlor 1260)	ND	ND	38.0		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	PCB-1262 (Arochlor 1262)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	PCB-1262 (Arochlor 1262)	ND	ND	38.0		NA	OK
Mar 9 2015	JW-SB11-0.5 / JW-SB11-0.6	1503023-08 / 1503023-09	PCB-1268 (Arochlor 1268)	ND	ND	36.0		NA	OK
Mar 9 2015	JW-SB11-5 / JW-SB11-6	1503023-11 / 1503023-12	PCB-1268 (Arochlor 1268)	ND	ND	38.0		NA	OK

Location	Analysis
JW-SB/SG12	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1553-03 / G1553-04	Mercury	0.0520	0.0330	0.100	44.7	NA	OK

Location	Analysis
JW-SB/SG12	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,2,4,5-Tetrachlorobenzene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2,3,4,6-Tetrachlorophenol	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2,4,5-Trichlorophenol	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2,4,6-Trichlorophenol	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2,4-Dichlorophenol	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2,4-Dimethylphenol	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2,4-Dinitrophenol	ND	ND	370		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2,4-Dinitrotoluene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2,6-Dinitrotoluene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2-Chloronaphthalene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2-Chlorophenol	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2-Methylnaphthalene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2-Methylphenol (o-Cresol)	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2-Nitroaniline	ND	ND	370		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2-Nitrophenol	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	3,3'-Dichlorobenzidine	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	3-Nitroaniline	ND	ND	370		NA	OK

Data Quality Summary Report
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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	4,6-Dinitro-2-Methylphenol	ND	ND	370		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	4-Bromophenyl phenyl ether	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	4-Chloro-3-Methylphenol	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	4-Chloroaniline	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	4-Chlorophenyl Phenyl Ether	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	4-Methylphenol (p-Cresol)	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	4-Nitroaniline	ND	ND	370		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	4-Nitrophenol	ND	ND	370		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Acenaphthene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Acenaphthylene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Acetophenone	43.0	43.0	190	0.00	NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Anthracene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Atrazine	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Benzaldehyde	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Benzo(a)anthracene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Benzo(a)pyrene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Benzo(b)fluoranthene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Benzo(g,h,i)perylene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Benzo(k)fluoranthene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Benzyl butyl phthalate	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Biphenyl (Diphenyl)	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	bis(2-Chloroethoxy) Methane	ND	ND	190		NA	OK

Data Quality Summary Report
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Location	Analysis
JW-SB/SG12	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	bis(2-Chloroisopropyl) Ether	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	bis(2-Ethylhexyl) Phthalate	110	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Caprolactam	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Carbazole	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Chrysene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Di-n-Butyl Phthalate	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Di-n-Octylphthalate	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Dibenz(a,h)anthracene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Dibenzofuran	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Diethyl Phthalate	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Dimethyl Phthalate	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Fluoranthene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Fluorene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Hexachlorobenzene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Hexachlorobutadiene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Hexachlorocyclopentadiene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Hexachloroethane	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Indeno(1,2,3-c,d)pyrene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Isophorone	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	n-Nitrosodi-n-propylamine	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	n-Nitrosodiphenylamine	ND	ND	190		NA	OK

Location	Analysis
JW-SB/SG12	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Naphthalene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Nitrobenzene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Pentachlorophenol	ND	ND	370		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Phenanthrene	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Phenol	ND	ND	190		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Pyrene	ND	ND	190		NA	OK

Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,1,1-Trichloroethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,1,2,2-Tetrachloroethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,1,2-Trichloroethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,1-Dichloroethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,1-Dichloroethene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,2,3-Trichlorobenzene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,2,3-Trichloropropane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,2,4-Trichlorobenzene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,2-Dibromo-3-chloropropane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,2-Dibromoethane (EDB)	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,2-Dichlorobenzene	ND	ND	5.10		NA	OK

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Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,2-Dichloroethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,2-Dichloropropane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,3-Dichlorobenzene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,4-Dichlorobenzene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	1,4-Dioxane (p-Dioxane)	ND	ND	100		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2-Butanone (MEK)	ND	ND	10.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	2-Hexanone	ND	ND	10.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	4-Methyl-2-pentanone (MIBK)	ND	ND	10.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Acetone	ND	ND	10.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Benzene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Bromochloromethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Bromodichloromethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Bromoform	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Bromomethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Carbon Disulfide	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Carbon Tetrachloride	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Chlorobenzene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Chloroethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Chloroform	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Chloromethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	cis-1,2-Dichloroethylene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	cis-1,3-Dichloropropene	ND	ND	5.10		NA	OK

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Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Cyclohexane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Dibromochloromethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Dichlorodifluoromethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Ethylbenzene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Isopropylbenzene (Cumene)	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	m,p-Xylene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Methyl Acetate	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Methylcyclohexane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Methylene Chloride	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	o-Xylene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Styrene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Tetrachloroethene (PCE)	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Toluene	0.460	0.490	5.10	6.32	NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	trans-1,2-Dichloroethene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	trans-1,3-Dichloropropene	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Trichloroethene (TCE)	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Trichlorofluoromethane	ND	ND	5.10		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	Vinyl Chloride	ND	ND	5.10		NA	OK

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Location	Analysis
JW-SB/SG12	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1553-03 / G1553-04	Aluminum	13700	11200	15.9	20.1	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1553-03 / G1553-04	Calcium	7110	6010	397	16.8	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1553-03 / G1553-04	Iron	23100	18800	7.90	20.5	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1553-03 / G1553-04	Magnesium	6720	5460	397	20.7	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1553-03 / G1553-04	Potassium	4070	3160	397	25.2	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1553-03 / G1553-04	Sodium	473	403	397	16.0	OK	NA

Location	Analysis
JW-SB/SG12	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Antimony	ND	ND	0.770		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Arsenic	1.80	1.90	0.390	5.41	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Barium	142	150	3.90	5.48	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Beryllium	0.480	0.480	0.390	0.00	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Cadmium	0.180	0.200	0.390	10.5	NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Chromium	17.8	19.1	0.770	7.05	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Cobalt	11.9	12.0	0.390	0.837	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Copper	19.8	21.0	0.770	5.88	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Lead	5.20	5.60	0.390	7.41	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Manganese	448	435	3.90	2.94	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Nickel	13.9	14.6	0.390	4.91	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Selenium	ND	ND	1.90		NA	OK

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Location	Analysis
JW-SB/SG12	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Silver	ND	ND	0.390		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Thallium	ND	ND	0.390		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Vanadium	40.4	42.0	1.90	3.88	OK	NA
Mar 16 2015	JW-SB12-5 / JW-SB12-6	G1554-03 / G1554-04	Zinc	67.0	72.2	0.770	7.47	OK	NA

Location	Analysis
JW-SB/SG12	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	PCB-1016 (Arochlor 1016)	ND	ND	37.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	PCB-1221 (Arochlor 1221)	ND	ND	37.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	PCB-1232 (Arochlor 1232)	ND	ND	37.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	PCB-1242 (Arochlor 1242)	ND	ND	37.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	PCB-1248 (Arochlor 1248)	ND	ND	37.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	PCB-1254 (Arochlor 1254)	ND	ND	37.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	PCB-1260 (Arochlor 1260)	ND	ND	37.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	PCB-1262 (Arochlor 1262)	ND	ND	37.0		NA	OK
Mar 16 2015	JW-SB12-5 / JW-SB12-6	1503062-02 / 1503062-03	PCB-1268 (Arochlor 1268)	ND	ND	37.0		NA	OK

Location	Analysis
JW-SB/SG13	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1528-04 / G1528-05	Mercury	0.0440	0.0340	0.100	25.6	NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	1,2,4,5-Tetrachlorobenzene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2,3,4,6-Tetrachlorophenol	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2,4,5-Trichlorophenol	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2,4,6-Trichlorophenol	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2,4-Dichlorophenol	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2,4-Dimethylphenol	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2,4-Dinitrophenol	ND	ND	410		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2,4-Dinitrotoluene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2,6-Dinitrotoluene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2-Chloronaphthalene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2-Chlorophenol	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2-Methylnaphthalene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2-Methylphenol (o-Cresol)	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2-Nitroaniline	ND	ND	410		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	2-Nitrophenol	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	3,3'-Dichlorobenzidine	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	3-Nitroaniline	ND	ND	410		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	4,6-Dinitro-2-Methylphenol	ND	ND	410		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	4-Bromophenyl phenyl ether	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	4-Chloro-3-Methylphenol	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	4-Chloroaniline	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	4-Chlorophenyl Phenyl Ether	ND	ND	210		NA	OK

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Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	4-Methylphenol (p-Cresol)	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	4-Nitroaniline	ND	ND	410		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	4-Nitrophenol	ND	ND	410		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Acenaphthene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Acenaphthylene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Acetophenone	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Anthracene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Atrazine	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Benzaldehyde	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Benzo(a)anthracene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Benzo(a)pyrene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Benzo(b)fluoranthene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Benzo(g,h,i)perylene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Benzo(k)fluoranthene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Benzyl butyl phthalate	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Biphenyl (Diphenyl)	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	bis(2-Chloroethoxy) Methane	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	bis(2-Chloroisopropyl) Ether	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	bis(2-Ethylhexyl) Phthalate	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Caprolactam	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Carbazole	ND	ND	210		NA	OK

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Location	Analysis
JW-SB/SG13	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Chrysene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Di-n-Butyl Phthalate	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Di-n-Octylphthalate	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Dibenz(a,h)anthracene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Dibenzofuran	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Diethyl Phthalate	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Dimethyl Phthalate	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Fluoranthene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Fluorene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Hexachlorobenzene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Hexachlorobutadiene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Hexachlorocyclopentadiene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Hexachloroethane	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Indeno(1,2,3-c,d)pyrene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Isophorone	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	n-Nitrosodi-n-propylamine	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	n-Nitrosodiphenylamine	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Naphthalene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Nitrobenzene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Pentachlorophenol	ND	ND	410		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Phenanthrene	ND	ND	210		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Phenol	ND	ND	210		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	Pyrene	ND	ND	210		NA	OK

Location	Analysis
JW-SB/SG13	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1528-04 / G1528-05	Aluminum	14200	10400	17.2	30.9	OK	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1528-04 / G1528-05	Calcium	9720	8410	429	14.5	OK	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1528-04 / G1528-05	Iron	22900	17400	8.60	27.3	OK	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1528-04 / G1528-05	Magnesium	8040	5840	429	31.7	OK	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1528-04 / G1528-05	Potassium	4290	3420	429	22.6	OK	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1528-04 / G1528-05	Sodium	1260	575	429	74.7	Out	NA

Location	Analysis
JW-SB/SG13	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Antimony	ND	ND	0.820		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Arsenic	2.30	1.70	0.410	30.0	OK	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Barium	164	114	4.10	36.0	Out	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Beryllium	0.520	0.360	0.410	36.4	NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Cadmium	0.230	0.160	0.410	35.9	NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Chromium	24.1	16.2	0.820	39.2	Out	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Cobalt	12.9	9.60	0.410	29.3	OK	NA

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Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG13	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Copper	24.9	16.7	0.820	39.4	Out	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Lead	5.40	5.60	0.410	3.64	OK	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Manganese	498	355	4.10	33.5	OK	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Nickel	17.9	12.2	0.410	37.9	Out	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Selenium	ND	ND	2.00		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Silver	ND	ND	0.410		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Thallium	ND	ND	0.410		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Vanadium	49.3	34.6	2.00	35.0	Out	NA
Mar 12 2015	JW-SB13-15 / JW-SB13-16	G1529-04 / G1529-05	Zinc	79.6	85.9	0.820	7.61	OK	NA

Location	Analysis
JW-SB/SG13	SW7196A

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB13-15 / JW-SB13-16	15-03-1061-2-A / 15-03-1061-4-A	Chromium, Hexavalent	ND	ND	0.800		NA	OK

Location	Analysis
JW-SB/SG13	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	PCB-1016 (Arochlor 1016)	ND	ND	41.0		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	PCB-1221 (Arochlor 1221)	ND	ND	41.0		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	PCB-1232 (Arochlor 1232)	ND	ND	41.0		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	PCB-1242 (Arochlor 1242)	ND	ND	41.0		NA	OK

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Location	Analysis
JW-SB/SG13	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	PCB-1248 (Arochlor 1248)	ND	ND	41.0		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	PCB-1254 (Arochlor 1254)	ND	ND	41.0		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	PCB-1260 (Arochlor 1260)	ND	ND	41.0		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	PCB-1262 (Arochlor 1262)	ND	ND	41.0		NA	OK
Mar 12 2015	JW-SB13-15 / JW-SB13-16	1503051-17 / 1503051-18	PCB-1268 (Arochlor 1268)	ND	ND	41.0		NA	OK

Location	Analysis
JW-SB/SG14	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1,1,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1,1-Trichloroethane	540	550	28.0	1.83	OK	NA
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1,2,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1,2-Trichloroethane	ND	ND	55.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,2,4-Trichlorobenzene	ND	ND	75.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,2,4-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,3,5-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,4-Dichlorobenzene	ND	ND	61.0		NA	OK

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Location	Analysis
JW-SB/SG14	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Benzene	ND	18.0	16.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Bromodichloromethane	ND	ND	68.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Bromomethane	ND	ND	39.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Chloroethane	ND	ND	27.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Chloroform	ND	ND	25.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Chloromethane	ND	ND	21.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Dichlorodifluoromethane	ND	ND	50.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Ethylbenzene	ND	ND	22.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Isopropylbenzene (Cumene)	ND	ND	50.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	m,p-Xylene	ND	ND	44.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Methylene Chloride	ND	ND	35.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	n-Butylbenzene	ND	ND	28.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	n-Propylbenzene	ND	ND	50.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Naphthalene	ND	ND	27.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	o-Xylene	ND	ND	22.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	sec-Butylbenzene	ND	ND	28.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	tert-Butylbenzene	ND	ND	56.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Tetrachloroethene (PCE)	13000	13000	34.0	0.00	OK	NA

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Location	Analysis
JW-SB/SG14	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Toluene	ND	ND	38.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Trichloroethene (TCE)	2100	1700	27.0	21.1	OK	NA
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Trichlorofluoromethane	ND	ND	56.0		NA	OK
Mar 30 2015	SB/SG14-5 / SB/SG14-5 Rep	E503140-06 / E503140-07	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
JW-SB/SG16	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1483-10 / G1483-11	Mercury	0.0470	0.0740	0.120	44.6	NA	OK

Location	Analysis
JW-SB/SG16	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	1,2,4,5-Tetrachlorobenzene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2,3,4,6-Tetrachlorophenol	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2,4,5-Trichlorophenol	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2,4,6-Trichlorophenol	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2,4-Dichlorophenol	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2,4-Dimethylphenol	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2,4-Dinitrophenol	ND	ND	3600		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2,4-Dinitrotoluene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2,6-Dinitrotoluene	ND	ND	1900		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2-Chloronaphthalene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2-Chlorophenol	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2-Methylnaphthalene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2-Methylphenol (o-Cresol)	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2-Nitroaniline	ND	ND	3600		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	2-Nitrophenol	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	3,3'-Dichlorobenzidine	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	3-Nitroaniline	ND	ND	3600		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	4,6-Dinitro-2-Methylphenol	ND	ND	3600		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	4-Bromophenyl phenyl ether	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	4-Chloro-3-Methylphenol	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	4-Chloroaniline	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	4-Chlorophenyl Phenyl Ether	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	4-Methylphenol (p-Cresol)	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	4-Nitroaniline	ND	ND	3600		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	4-Nitrophenol	ND	ND	3600		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Acenaphthene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Acenaphthylene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Acetophenone	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Anthracene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Atrazine	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Benzaldehyde	ND	ND	1900		NA	OK

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Location	Analysis
JW-SB/SG16	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Benzo(a)anthracene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Benzo(a)pyrene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Benzo(b)fluoranthene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Benzo(g,h,i)perylene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Benzo(k)fluoranthene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Benzyl butyl phthalate	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Biphenyl (Diphenyl)	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	bis(2-Chloroethoxy) Methane	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	bis(2-Chloroisopropyl) Ether	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	bis(2-Ethylhexyl) Phthalate	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Caprolactam	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Carbazole	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Chrysene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Di-n-Butyl Phthalate	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Di-n-Octylphthalate	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Dibenz(a,h)anthracene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Dibenzofuran	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Diethyl Phthalate	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Dimethyl Phthalate	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Fluoranthene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Fluorene	ND	ND	1900		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Hexachlorobenzene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Hexachlorobutadiene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Hexachlorocyclopentadiene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Hexachloroethane	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Indeno(1,2,3-c,d)pyrene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Isophorone	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	n-Nitrosodi-n-propylamine	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	n-Nitrosodiphenylamine	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Naphthalene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Nitrobenzene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Pentachlorophenol	ND	ND	3600		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Phenanthrene	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Phenol	ND	ND	1900		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	Pyrene	ND	ND	1900		NA	OK

Location	Analysis
JW-SB/SG16	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,1,1-Trichloroethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,1,2,2-Tetrachloroethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,1,2-Trichloroethane	ND	ND	4.90		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,1-Dichloroethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,1-Dichloroethene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,2,3-Trichlorobenzene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,2,3-Trichloropropane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,2,4-Trichlorobenzene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,2-Dibromo-3-chloropropane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,2-Dibromoethane (EDB)	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,2-Dichlorobenzene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,2-Dichloroethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,2-Dichloropropane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,3-Dichlorobenzene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,4-Dichlorobenzene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	1,4-Dioxane (p-Dioxane)	ND	ND	99.0		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	2-Butanone (MEK)	ND	ND	9.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	2-Hexanone	ND	ND	9.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	4-Methyl-2-pentanone (MIBK)	ND	ND	9.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Acetone	5.90	6.50	9.90	9.68	NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Benzene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Bromochloromethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Bromodichloromethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Bromoform	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Bromomethane	ND	ND	4.90		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Carbon Disulfide	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Carbon Tetrachloride	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Chlorobenzene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Chloroethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Chloroform	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Chloromethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	cis-1,2-Dichloroethylene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	cis-1,3-Dichloropropene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Cyclohexane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Dibromochloromethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Dichlorodifluoromethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Ethylbenzene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Isopropylbenzene (Cumene)	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	m,p-Xylene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Methyl Acetate	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Methylcyclohexane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Methylene Chloride	0.880	0.990	4.90	11.8	NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	o-Xylene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Styrene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	tert-Butyl Methyl Ether (MTBE)	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Tetrachloroethene (PCE)	0.790	0.710	4.90	10.7	NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Toluene	0.550	0.640	4.90	15.1	NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	trans-1,2-Dichloroethene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	trans-1,3-Dichloropropene	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Trichloroethene (TCE)	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Trichlorofluoromethane	ND	ND	4.90		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01RE1 / 1503041-02	Vinyl Chloride	ND	ND	4.90		NA	OK

Location	Analysis
JW-SB/SG16	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1483-10 / G1483-11	Aluminum	11300	10400	16.9	8.29	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1483-10 / G1483-11	Calcium	5700	5160	423	9.94	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1483-10 / G1483-11	Iron	20800	18900	8.50	9.57	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1483-10 / G1483-11	Magnesium	5990	5530	423	7.99	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1483-10 / G1483-11	Potassium	4180	3880	423	7.44	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1483-10 / G1483-11	Sodium	297	298	423	0.336	NA	OK

Location	Analysis
JW-SB/SG16	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Antimony	ND	ND	0.860		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Arsenic	2.90	2.30	0.430	23.1	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Barium	150	131	4.30	13.5	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Beryllium	0.420	0.350	0.430	18.2	NA	OK

Data Quality Summary Report
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Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG16	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Cadmium	0.440	ND	0.430		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Chromium	131	104	8.60	23.0	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Cobalt	9.40	7.70	0.430	19.9	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Copper	32.6	29.8	0.860	8.97	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Lead	45.6	43.2	0.430	5.41	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Manganese	412	342	4.30	18.6	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Nickel	16.6	14.4	0.430	14.2	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Selenium	0.120	0.0790	2.20	41.2	NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Silver	ND	ND	0.430		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Thallium	0.200	0.160	0.430	22.2	NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Vanadium	40.6	35.3	2.20	14.0	OK	NA
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	G1484-10 / G1484-11	Zinc	110	90.3	0.860	19.7	OK	NA

Location	Analysis
JW-SB/SG16	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	PCB-1016 (Arochlor 1016)	ND	ND	36.0		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	PCB-1221 (Arochlor 1221)	ND	ND	36.0		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	PCB-1232 (Arochlor 1232)	ND	ND	36.0		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	PCB-1242 (Arochlor 1242)	ND	ND	36.0		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	PCB-1248 (Arochlor 1248)	ND	ND	36.0		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	PCB-1254 (Arochlor 1254)	ND	ND	36.0		NA	OK

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Location	Analysis
JW-SB/SG16	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	PCB-1260 (Arochlor 1260)	ND	ND	36.0		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	PCB-1262 (Arochlor 1262)	ND	ND	36.0		NA	OK
Mar 10 2015	JW-SB16-0.5 / JW-SB16-0.6	1503041-01 / 1503041-02	PCB-1268 (Arochlor 1268)	ND	ND	36.0		NA	OK

Location	Analysis
JW-SB/SG17	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1,1,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1,1-Trichloroethane	260	250	28.0	3.92	OK	NA
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1,2,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1,2-Trichloroethane	ND	ND	55.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1-Dichloroethene	97.0	98.0	20.0	1.03	OK	NA
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,2,4-Trichlorobenzene	ND	ND	75.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,2,4-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,3,5-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,4-Dichlorobenzene	ND	ND	61.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Benzene	24.0	28.0	16.0	15.4	OK	NA

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Bromodichloromethane	ND	ND	68.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Bromomethane	ND	ND	39.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Chloroethane	ND	ND	27.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Chloroform	ND	ND	25.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Chloromethane	ND	ND	21.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Dichlorodifluoromethane	ND	ND	50.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Ethylbenzene	ND	ND	22.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Isopropylbenzene (Cumene)	ND	ND	50.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	m,p-Xylene	ND	ND	44.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Methylene Chloride	ND	ND	35.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	n-Butylbenzene	ND	ND	28.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	n-Propylbenzene	ND	ND	50.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Naphthalene	ND	ND	27.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	o-Xylene	ND	ND	22.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	sec-Butylbenzene	ND	ND	28.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	tert-Butylbenzene	ND	ND	56.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Tetrachloroethene (PCE)	29000	19000	690	41.7	Out	NA
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Toluene	ND	ND	38.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK

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Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Trichloroethene (TCE)	5600	4600	27.0	19.6	OK	NA
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Trichlorofluoromethane	ND	ND	56.0		NA	OK
Mar 24 2015	SB/SG17-15 / SB/SG17-15 Rep	E503104-08 / E503104-09	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	**Analysis**
JW-SB/SG18	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1508-06 / G1508-07	Mercury	0.0520	0.130	0.110	85.7	NA	OK

Location	**Analysis**
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,2,4,5-Tetrachlorobenzene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2,3,4,6-Tetrachlorophenol	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2,4,5-Trichlorophenol	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2,4,6-Trichlorophenol	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2,4-Dichlorophenol	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2,4-Dimethylphenol	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2,4-Dinitrophenol	ND	ND	370		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2,4-Dinitrotoluene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2,6-Dinitrotoluene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2-Chloronaphthalene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2-Chlorophenol	ND	ND	190		NA	OK

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Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2-Methylnaphthalene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2-Methylphenol (o-Cresol)	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2-Nitroaniline	ND	ND	370		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2-Nitrophenol	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	3,3'-Dichlorobenzidine	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	3-Nitroaniline	ND	ND	370		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	4,6-Dinitro-2-Methylphenol	ND	ND	370		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	4-Bromophenyl phenyl ether	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	4-Chloro-3-Methylphenol	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	4-Chloroaniline	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	4-Chlorophenyl Phenyl Ether	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	4-Methylphenol (p-Cresol)	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	4-Nitroaniline	ND	ND	370		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	4-Nitrophenol	ND	ND	370		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Acenaphthene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Acenaphthylene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Acetophenone	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Anthracene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Atrazine	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Benzaldehyde	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Benzo(a)anthracene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Benzo(a)pyrene	ND	ND	190		NA	OK

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Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Benzo(b)fluoranthene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Benzo(g,h,i)perylene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Benzo(k)fluoranthene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Benzyl butyl phthalate	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Biphenyl (Diphenyl)	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	bis(2-Chloroethoxy) Methane	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	bis(2-Chloroisopropyl) Ether	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	bis(2-Ethylhexyl) Phthalate	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Caprolactam	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Carbazole	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Chrysene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Di-n-Butyl Phthalate	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Di-n-Octylphthalate	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Dibenz(a,h)anthracene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Dibenzofuran	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Diethyl Phthalate	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Dimethyl Phthalate	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Fluoranthene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Fluorene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Hexachlorobenzene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Hexachlorobutadiene	ND	ND	190		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Hexachlorocyclopentadiene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Hexachloroethane	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Indeno(1,2,3-c,d)pyrene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Isophorone	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	n-Nitrosodi-n-propylamine	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	n-Nitrosodiphenylamine	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Naphthalene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Nitrobenzene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Pentachlorophenol	ND	ND	370		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Phenanthrene	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Phenol	ND	ND	190		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Pyrene	ND	ND	190		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,1,1-Trichloroethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,1,2,2-Tetrachloroethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,1,2-Trichloroethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,1-Dichloroethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,1-Dichloroethene	ND	ND	4.70		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,2,3-Trichlorobenzene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,2,3-Trichloropropane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,2,4-Trichlorobenzene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,2-Dibromo-3-chloropropane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,2-Dibromoethane (EDB)	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,2-Dichlorobenzene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,2-Dichloroethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,2-Dichloropropane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,3-Dichlorobenzene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,4-Dichlorobenzene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	1,4-Dioxane (p-Dioxane)	ND	ND	94.0		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2-Butanone (MEK)	ND	ND	9.40		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	2-Hexanone	ND	ND	9.40		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	4-Methyl-2-pentanone (MIBK)	ND	ND	9.40		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Acetone	8.10	10.0	9.40	21.0	NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Benzene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Bromochloromethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Bromodichloromethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Bromoform	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Bromomethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Carbon Disulfide	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Carbon Tetrachloride	ND	ND	4.70		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG18	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Chlorobenzene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Chloroethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Chloroform	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Chloromethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	cis-1,2-Dichloroethylene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	cis-1,3-Dichloropropene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Cyclohexane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Dibromochloromethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Dichlorodifluoromethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Ethylbenzene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Isopropylbenzene (Cumene)	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	m,p-Xylene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Methyl Acetate	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Methylcyclohexane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Methylene Chloride	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	o-Xylene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Styrene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	tert-Butyl Methyl Ether (MTBE)	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Tetrachloroethene (PCE)	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Toluene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	trans-1,2-Dichloroethene	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	trans-1,3-Dichloropropene	ND	ND	4.70		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Trichloroethene (TCE)	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Trichlorofluoromethane	ND	ND	4.70		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	Vinyl Chloride	ND	ND	4.70		NA	OK

Location	Analysis
JW-SB/SG18	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1508-06 / G1508-07	Aluminum	12500	10300	18.4	19.3	OK	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1508-06 / G1508-07	Calcium	8650	6660	459	26.0	OK	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1508-06 / G1508-07	Iron	21300	18200	9.20	15.7	OK	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1508-06 / G1508-07	Magnesium	7100	5710	459	21.7	OK	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1508-06 / G1508-07	Potassium	3790	3250	459	15.3	OK	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1508-06 / G1508-07	Sodium	1170	515	459	77.7	Out	NA

Location	Analysis
JW-SB/SG18	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Antimony	ND	ND	0.910		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Arsenic	2.40	1.70	0.450	34.1	OK	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Barium	164	120	4.50	31.0	OK	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Beryllium	0.520	0.360	0.450	36.4	NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Cadmium	ND	ND	0.450		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Chromium	21.2	14.7	0.910	36.2	Out	NA

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG18	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Cobalt	11.3	8.10	0.450	33.0	OK	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Copper	25.4	16.0	0.910	45.4	Out	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Lead	5.40	4.00	0.450	29.8	OK	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Manganese	384	522	4.50	30.5	OK	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Nickel	17.0	11.5	0.450	38.6	Out	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Selenium	0.0290	ND	2.30		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Silver	ND	ND	0.450		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Thallium	0.240	0.170	0.450	34.1	NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Vanadium	46.0	34.5	2.30	28.6	OK	NA
Mar 11 2015	JW-SB18-15 / JW-SB18-16	G1510-06 / G1510-07	Zinc	70.8	53.8	0.910	27.3	OK	NA

Location	Analysis
JW-SB/SG18	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	PCB-1016 (Arochlor 1016)	ND	ND	38.0		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	PCB-1221 (Arochlor 1221)	ND	ND	38.0		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	PCB-1232 (Arochlor 1232)	ND	ND	38.0		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	PCB-1242 (Arochlor 1242)	ND	ND	38.0		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	PCB-1248 (Arochlor 1248)	ND	ND	38.0		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	PCB-1254 (Arochlor 1254)	ND	ND	38.0		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	PCB-1260 (Arochlor 1260)	ND	ND	38.0		NA	OK
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	PCB-1262 (Arochlor 1262)	ND	ND	38.0		NA	OK

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Location	Analysis
JW-SB/SG18	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2015	JW-SB18-15 / JW-SB18-16	1503024-18 / 1503024-19	PCB-1268 (Arochlor 1268)	ND	ND	38.0		NA	OK

Location	Analysis
JW-SB/SG21	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1564-05 / G1564-06	Mercury	0.0790	0.0750	0.120	5.19	NA	OK

Location	Analysis
JW-SB/SG21	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,2,4,5-Tetrachlorobenzene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2,3,4,6-Tetrachlorophenol	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2,4,5-Trichlorophenol	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2,4,6-Trichlorophenol	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2,4-Dichlorophenol	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2,4-Dimethylphenol	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2,4-Dinitrophenol	ND	ND	390		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2,4-Dinitrotoluene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2,6-Dinitrotoluene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2-Chloronaphthalene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2-Chlorophenol	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2-Methylnaphthalene	ND	ND	200		NA	OK

Data Quality Summary Report
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Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG21	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2-Methylphenol (o-Cresol)	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2-Nitroaniline	ND	ND	390		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2-Nitrophenol	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	3,3'-Dichlorobenzidine	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	3-Nitroaniline	ND	ND	390		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	4,6-Dinitro-2-Methylphenol	ND	ND	390		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	4-Bromophenyl phenyl ether	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	4-Chloro-3-Methylphenol	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	4-Chloroaniline	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	4-Chlorophenyl Phenyl Ether	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	4-Methylphenol (p-Cresol)	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	4-Nitroaniline	ND	ND	390		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	4-Nitrophenol	ND	ND	390		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Acenaphthene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Acenaphthylene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Acetophenone	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Anthracene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Atrazine	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Benzaldehyde	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Benzo(a)anthracene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Benzo(a)pyrene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Benzo(b)fluoranthene	ND	ND	200		NA	OK

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Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG21	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Benzo(g,h,i)perylene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Benzo(k)fluoranthene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Benzyl butyl phthalate	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Biphenyl (Diphenyl)	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	bis(2-Chloroethoxy) Methane	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	bis(2-Chloroisopropyl) Ether	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	bis(2-Ethylhexyl) Phthalate	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Caprolactam	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Carbazole	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Chrysene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Di-n-Butyl Phthalate	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Di-n-Octylphthalate	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Dibenz(a,h)anthracene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Dibenzofuran	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Diethyl Phthalate	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Dimethyl Phthalate	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Fluoranthene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Fluorene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Hexachlorobenzene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Hexachlorobutadiene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Hexachlorocyclopentadiene	ND	ND	200		NA	OK

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Location	Analysis
JW-SB/SG21	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Hexachloroethane	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Indeno(1,2,3-c,d)pyrene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Isophorone	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	n-Nitrosodi-n-propylamine	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	n-Nitrosodiphenylamine	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Naphthalene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Nitrobenzene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Pentachlorophenol	ND	ND	390		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Phenanthrene	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Phenol	ND	ND	200		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Pyrene	ND	ND	200		NA	OK

Location	Analysis
JW-SB/SG21	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,1,1-Trichloroethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,1,2,2-Tetrachloroethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,1,2-Trichloroethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,1-Dichloroethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,1-Dichloroethene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,2,3-Trichlorobenzene	ND	ND	4.50		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG21	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,2,3-Trichloropropane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,2,4-Trichlorobenzene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,2-Dibromo-3-chloropropane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,2-Dibromoethane (EDB)	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,2-Dichlorobenzene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,2-Dichloroethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,2-Dichloropropane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,3-Dichlorobenzene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,4-Dichlorobenzene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	1,4-Dioxane (p-Dioxane)	ND	ND	91.0		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2-Butanone (MEK)	ND	ND	9.10		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	2-Hexanone	ND	ND	9.10		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	4-Methyl-2-pentanone (MIBK)	ND	ND	9.10		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Acetone	11.0	16.0	9.10	37.0	Out	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Benzene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Bromochloromethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Bromodichloromethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Bromoform	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Bromomethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Carbon Disulfide	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Carbon Tetrachloride	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Chlorobenzene	ND	ND	4.50		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG21	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Chloroethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Chloroform	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Chloromethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	cis-1,2-Dichloroethylene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	cis-1,3-Dichloropropene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Cyclohexane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Dibromochloromethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Dichlorodifluoromethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Ethylbenzene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Isopropylbenzene (Cumene)	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	m,p-Xylene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Methyl Acetate	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Methylcyclohexane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Methylene Chloride	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	o-Xylene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Styrene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	tert-Butyl Methyl Ether (MTBE)	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Tetrachloroethene (PCE)	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Toluene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	trans-1,2-Dichloroethene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	trans-1,3-Dichloropropene	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Trichloroethene (TCE)	ND	ND	4.50		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG21	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Trichlorofluoromethane	ND	ND	4.50		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	Vinyl Chloride	ND	ND	4.50		NA	OK

Location	Analysis
JW-SB/SG21	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1564-05 / G1564-06	Aluminum	18800	18100	17.8	3.79	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1564-05 / G1564-06	Calcium	19100	13200	445	36.5	Out	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1564-05 / G1564-06	Iron	29100	28900	8.90	0.690	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1564-05 / G1564-06	Magnesium	9110	8960	445	1.66	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1564-05 / G1564-06	Potassium	4730	4700	445	0.636	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1564-05 / G1564-06	Sodium	668	619	445	7.61	OK	NA

Location	Analysis
JW-SB/SG21	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Antimony	ND	ND	0.850		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Arsenic	2.30	2.30	0.420	0.00	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Barium	177	175	4.20	1.14	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Beryllium	0.560	0.540	0.420	3.64	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Cadmium	0.280	0.270	0.420	3.64	NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Chromium	22.5	22.7	0.850	0.885	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Cobalt	14.2	13.9	0.420	2.14	OK	NA

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG21	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Copper	25.8	26.2	0.850	1.54	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Lead	6.00	6.00	0.420	0.00	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Manganese	461	483	4.20	4.66	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Nickel	17.3	17.3	0.420	0.00	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Selenium	ND	ND	2.10		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Silver	0.0420	0.0400	0.420	4.88	NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Thallium	0.260	0.260	0.420	0.00	NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Vanadium	46.7	46.8	2.10	0.214	OK	NA
Mar 17 2015	JW-SB21-5 / JW-SB21-6	G1566-05 / G1566-06	Zinc	76.8	76.4	0.850	0.522	OK	NA

Location	Analysis
JW-SB/SG21	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	PCB-1016 (Arochlor 1016)	ND	ND	39.0		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	PCB-1221 (Arochlor 1221)	ND	ND	39.0		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	PCB-1232 (Arochlor 1232)	ND	ND	39.0		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	PCB-1242 (Arochlor 1242)	ND	ND	39.0		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	PCB-1248 (Arochlor 1248)	ND	ND	39.0		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	PCB-1254 (Arochlor 1254)	ND	ND	39.0		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	PCB-1260 (Arochlor 1260)	ND	ND	39.0		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	PCB-1262 (Arochlor 1262)	ND	ND	39.0		NA	OK
Mar 17 2015	JW-SB21-5 / JW-SB21-6	1503063-03 / 1503063-04	PCB-1268 (Arochlor 1268)	ND	ND	39.0		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG21	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,1,1-Trichloroethane	10.0	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,1,2,2-Tetrachloroethane	ND	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	20.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,1,2-Trichloroethane	ND	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,1-Dichloroethane	ND	ND	8.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,1-Dichloroethene	ND	ND	8.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,2,4-Trichlorobenzene	ND	ND	20.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,2,4-Trimethylbenzene	ND	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,2-Dichloroethane	ND	ND	8.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,3,5-Trimethylbenzene	ND	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,4-Dichlorobenzene	ND	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	1,4-Dioxane (p-Dioxane)	ND	ND	7.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Benzene	5.00	ND	7.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Bromodichloromethane	ND	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Bromomethane	ND	ND	8.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Carbon Tetrachloride	ND	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Chloroethane	ND	ND	5.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Chloroform	5.00	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Chloromethane	ND	ND	4.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	cis-1,2-Dichloroethylene	ND	ND	8.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Dichlorodifluoromethane	ND	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Ethylbenzene	ND	ND	9.00		NA	OK

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Location	Analysis
JW-SB/SG21	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	m,p-Xylene	ND	ND	20.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Naphthalene	ND	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	o-Xylene	ND	ND	9.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09RE5 / E504011-03	Tetrachloroethene (PCE)	500	1000	300	66.7	Out	NA
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Toluene	4.00	ND	8.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	trans-1,2-Dichloroethene	ND	ND	8.00		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Trichloroethene (TCE)	40.0	88.0	10.0	75.0	Out	NA
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Trichlorofluoromethane	ND	ND	10.0		NA	OK
Apr 2 2015	JW-SG21-E5 / SB/SG21-5 Rep	1504011-09 / E504011-03	Vinyl Chloride	ND	ND	5.00		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1,1,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1,2,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1,2-Trichloroethane	ND	ND	55.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,2,4-Trichlorobenzene	ND	ND	75.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,2,4-Trimethylbenzene	ND	ND	50.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,3,5-Trimethylbenzene	ND	ND	50.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,4-Dichlorobenzene	ND	ND	61.0		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG21	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Benzene	ND	ND	16.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Bromodichloromethane	ND	ND	68.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Bromomethane	ND	ND	39.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Chloroethane	ND	ND	27.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Chloroform	ND	ND	25.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Chloromethane	ND	ND	21.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Dichlorodifluoromethane	ND	ND	50.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Ethylbenzene	ND	ND	22.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Isopropylbenzene (Cumene)	ND	ND	50.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	m,p-Xylene	ND	ND	44.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Methylene Chloride	ND	ND	35.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	n-Butylbenzene	ND	ND	28.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	n-Propylbenzene	ND	ND	50.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Naphthalene	ND	ND	27.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	o-Xylene	ND	ND	22.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	sec-Butylbenzene	ND	ND	28.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	tert-Butylbenzene	ND	ND	56.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Tetrachloroethene (PCE)	1100	1000	34.0	9.52	OK	NA

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG21	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Toluene	ND	ND	38.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Trichloroethene (TCE)	79.0	88.0	27.0	10.8	OK	NA
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Trichlorofluoromethane	ND	ND	56.0		NA	OK
Apr 2 2015	SB/SG21-5 / SB/SG21-5 Rep	E504011-02 / E504011-03	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
JW-SB/SG22	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	1,1,1-Trichloroethane	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	1,1,2,2-Tetrachloroethane	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	20.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	1,1,2-Trichloroethane	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	1,1-Dichloroethane	9.00	ND	8.00		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08RE3 / E504002-10	1,1-Dichloroethene	200	330	100	49.1	Out	NA
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	1,2,4-Trichlorobenzene	ND	ND	20.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	1,2,4-Trimethylbenzene	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	1,2-Dichloroethane	ND	ND	8.00		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	1,3,5-Trimethylbenzene	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	1,4-Dichlorobenzene	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	1,4-Dioxane (p-Dioxane)	ND	ND	8.00		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Benzene	10.0	ND	7.00		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG22	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Bromodichloromethane	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Bromomethane	ND	ND	8.00		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Carbon Tetrachloride	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Chloroethane	ND	ND	6.00		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Chloroform	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Chloromethane	ND	ND	4.00		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08RE3 / E504002-10	cis-1,2-Dichloroethylene	1200	1400	100	15.4	OK	NA
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Dichlorodifluoromethane	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Ethylbenzene	ND	ND	9.00		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	m,p-Xylene	ND	ND	20.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Naphthalene	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	o-Xylene	ND	ND	9.00		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Tetrachloroethene (PCE)	10.0	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Toluene	9.00	ND	8.00		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08RE3 / E504002-10	trans-1,2-Dichloroethene	100	180	100	57.1	NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08RE3 / E504002-10	Trichloroethene (TCE)	1000	1700	100	51.9	Out	NA
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Trichlorofluoromethane	ND	ND	10.0		NA	OK
Apr 1 2015	JW-SG22-E25 / SB/SG22-25 Rep	1504011-08 / E504002-10	Vinyl Chloride	50.0	47.0	5.00	6.19	OK	NA
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1,1,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1,2,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG22	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1,2-Trichloroethane	ND	ND	55.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1-Dichloroethene	410	330	20.0	21.6	OK	NA
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,2,4-Trichlorobenzene	ND	ND	75.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,2,4-Trimethylbenzene	ND	ND	50.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,3,5-Trimethylbenzene	ND	ND	50.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,4-Dichlorobenzene	ND	ND	61.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Benzene	27.0	ND	16.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Bromodichloromethane	ND	ND	68.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Bromomethane	ND	ND	39.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Chloroethane	ND	ND	27.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Chloroform	ND	ND	25.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Chloromethane	31.0	ND	21.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	cis-1,2-Dichloroethylene	1600	1400	40.0	13.3	OK	NA
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Dichlorodifluoromethane	ND	ND	50.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Ethylbenzene	ND	ND	22.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Isopropylbenzene (Cumene)	ND	ND	50.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	m,p-Xylene	ND	ND	44.0		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG22	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Methylene Chloride	ND	ND	35.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	n-Butylbenzene	ND	ND	28.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	n-Propylbenzene	ND	ND	50.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Naphthalene	ND	ND	27.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	o-Xylene	ND	ND	22.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	sec-Butylbenzene	ND	ND	28.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	tert-Butylbenzene	ND	ND	56.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Tetrachloroethene (PCE)	ND	ND	34.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Toluene	ND	ND	38.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	trans-1,2-Dichloroethene	200	180	40.0	10.5	OK	NA
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Trichloroethene (TCE)	1700	1700	27.0	0.00	OK	NA
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Trichlorofluoromethane	ND	ND	56.0		NA	OK
Apr 1 2015	SB/SG22-25 / SB/SG22-25 Rep	E504002-08 / E504002-10	Vinyl Chloride	75.0	47.0	13.0	45.9	Out	NA

Location	Analysis
JW-SB/SG23	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1597-14 / G1597-15	Mercury	0.0370	0.0460	0.110	21.7	NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG23	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,2,4,5-Tetrachlorobenzene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2,3,4,6-Tetrachlorophenol	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2,4,5-Trichlorophenol	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2,4,6-Trichlorophenol	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2,4-Dichlorophenol	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2,4-Dimethylphenol	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2,4-Dinitrophenol	ND	ND	360		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2,4-Dinitrotoluene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2,6-Dinitrotoluene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2-Chloronaphthalene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2-Chlorophenol	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2-Methylnaphthalene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2-Methylphenol (o-Cresol)	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2-Nitroaniline	ND	ND	360		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2-Nitrophenol	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	3,3'-Dichlorobenzidine	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	3-Nitroaniline	ND	ND	360		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	4,6-Dinitro-2-Methylphenol	ND	ND	360		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	4-Bromophenyl phenyl ether	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	4-Chloro-3-Methylphenol	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	4-Chloroaniline	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	4-Chlorophenyl Phenyl Ether	ND	ND	180		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Jervis B. Webb Company Superfund Site
Final SAP,RI/FS,Gilbane,2015

Location	Analysis
JW-SB/SG23	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	4-Methylphenol (p-Cresol)	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	4-Nitroaniline	ND	ND	360		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	4-Nitrophenol	ND	ND	360		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Acenaphthene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Acenaphthylene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Acetophenone	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Anthracene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Atrazine	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Benzaldehyde	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Benzo(a)anthracene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Benzo(a)pyrene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Benzo(b)fluoranthene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Benzo(g,h,i)perylene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Benzo(k)fluoranthene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Benzyl butyl phthalate	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Biphenyl (Diphenyl)	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	bis(2-Chloroethoxy) Methane	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	bis(2-Chloroisopropyl) Ether	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	bis(2-Ethylhexyl) Phthalate	94.0	360	180	117	NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Caprolactam	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Carbazole	ND	ND	180		NA	OK

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JW-SB/SG23	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Chrysene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Di-n-Butyl Phthalate	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Di-n-Octylphthalate	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Dibenz(a,h)anthracene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Dibenzofuran	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Diethyl Phthalate	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Dimethyl Phthalate	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Fluoranthene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Fluorene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Hexachlorobenzene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Hexachlorobutadiene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Hexachlorocyclopentadiene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Hexachloroethane	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Indeno(1,2,3-c,d)pyrene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Isophorone	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	n-Nitrosodi-n-propylamine	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	n-Nitrosodiphenylamine	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Naphthalene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Nitrobenzene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Pentachlorophenol	ND	ND	360		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Phenanthrene	ND	ND	180		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Phenol	ND	ND	180		NA	OK

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Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Pyrene	ND	ND	180		NA	OK

Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,1,1-Trichloroethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,1,2,2-Tetrachloroethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,1,2-Trichloroethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,1-Dichloroethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,1-Dichloroethene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,2,3-Trichlorobenzene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,2,3-Trichloropropane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,2,4-Trichlorobenzene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,2-Dibromo-3-chloropropane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,2-Dibromoethane (EDB)	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,2-Dichlorobenzene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,2-Dichloroethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,2-Dichloropropane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,3-Dichlorobenzene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,4-Dichlorobenzene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	1,4-Dioxane (p-Dioxane)	ND	ND	110		NA	OK

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Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2-Butanone (MEK)	ND	ND	11.0		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	2-Hexanone	ND	ND	11.0		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	4-Methyl-2-pentanone (MIBK)	ND	ND	11.0		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Acetone	7.10	7.50	11.0	5.48	NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Benzene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Bromochloromethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Bromodichloromethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Bromoform	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Bromomethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Carbon Disulfide	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Carbon Tetrachloride	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Chlorobenzene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Chloroethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Chloroform	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Chloromethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	cis-1,2-Dichloroethylene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	cis-1,3-Dichloropropene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Cyclohexane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Dibromochloromethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Dichlorodifluoromethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Ethylbenzene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Isopropylbenzene (Cumene)	ND	ND	5.50		NA	OK

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Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	m,p-Xylene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Methyl Acetate	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Methylcyclohexane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Methylene Chloride	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	o-Xylene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Styrene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Tetrachloroethene (PCE)	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Toluene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	trans-1,2-Dichloroethene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	trans-1,3-Dichloropropene	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Trichloroethene (TCE)	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Trichlorofluoromethane	ND	ND	5.50		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	Vinyl Chloride	ND	ND	5.50		NA	OK

Location	Analysis
JW-SB/SG23	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1597-14 / G1597-15	Aluminum	10400	9250	15.0	11.7	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1597-14 / G1597-15	Calcium	4830	4390	374	9.54	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1597-14 / G1597-15	Iron	18600	17000	7.50	8.99	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1597-14 / G1597-15	Magnesium	6320	5510	374	13.7	OK	NA

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1597-14 / G1597-15	Potassium	3530	3040	374	14.9	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1597-14 / G1597-15	Sodium	540	504	374	6.90	OK	NA

Location	Analysis
JW-SB/SG23	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Antimony	ND	ND	0.730		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Arsenic	11.0	10.4	0.370	5.61	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Barium	103	98.1	3.70	4.87	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Beryllium	ND	ND	0.370		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Cadmium	ND	ND	0.370		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Chromium	11.9	11.4	0.730	4.29	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Cobalt	7.00	6.40	0.370	8.96	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Copper	10.0	10.3	0.730	2.96	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Lead	2.50	2.50	0.370	0.00	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Manganese	276	253	3.70	8.70	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Nickel	9.30	8.70	0.370	6.67	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Selenium	0.0380	0.0540	1.80	34.8	NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Silver	ND	ND	0.370		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Thallium	ND	ND	0.370		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Vanadium	28.1	27.5	1.80	2.16	OK	NA
Mar 19 2015	JW-SB23-35 / JW-SB23-36	G1598-14 / G1598-15	Zinc	47.8	42.4	0.730	12.0	OK	NA

Location	**Analysis**
JW-SB/SG23	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	PCB-1016 (Arochlor 1016)	ND	ND	35.0		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	PCB-1221 (Arochlor 1221)	ND	ND	35.0		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	PCB-1232 (Arochlor 1232)	ND	ND	35.0		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	PCB-1242 (Arochlor 1242)	ND	ND	35.0		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	PCB-1248 (Arochlor 1248)	ND	ND	35.0		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	PCB-1254 (Arochlor 1254)	ND	ND	35.0		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	PCB-1260 (Arochlor 1260)	ND	ND	35.0		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	PCB-1262 (Arochlor 1262)	ND	ND	35.0		NA	OK
Mar 19 2015	JW-SB23-35 / JW-SB23-36	1503066-13 / 1503066-14	PCB-1268 (Arochlor 1268)	ND	ND	35.0		NA	OK

Location	**Analysis**
JW-SB/SG24	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1564-14 / G1564-15	Mercury	0.0480	0.0830	0.100	53.4	NA	OK

Location	**Analysis**
JW-SB/SG24	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,2,4,5-Tetrachlorobenzene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2,3,4,6-Tetrachlorophenol	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2,4,5-Trichlorophenol	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2,4,6-Trichlorophenol	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2,4-Dichlorophenol	ND	ND	210		NA	OK

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Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2,4-Dimethylphenol	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2,4-Dinitrophenol	ND	ND	400		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2,4-Dinitrotoluene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2,6-Dinitrotoluene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2-Chloronaphthalene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2-Chlorophenol	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2-Methylnaphthalene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2-Methylphenol (o-Cresol)	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2-Nitroaniline	ND	ND	400		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2-Nitrophenol	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	3,3'-Dichlorobenzidine	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	3-Nitroaniline	ND	ND	400		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	4,6-Dinitro-2-Methylphenol	ND	ND	400		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	4-Bromophenyl phenyl ether	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	4-Chloro-3-Methylphenol	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	4-Chloroaniline	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	4-Chlorophenyl Phenyl Ether	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	4-Methylphenol (p-Cresol)	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	4-Nitroaniline	ND	ND	400		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	4-Nitrophenol	ND	ND	400		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Acenaphthene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Acenaphthylene	ND	ND	210		NA	OK

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Location	Analysis
JW-SB/SG24	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Acetophenone	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Anthracene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Atrazine	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Benzaldehyde	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Benzo(a)anthracene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Benzo(a)pyrene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Benzo(b)fluoranthene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Benzo(g,h,i)perylene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Benzo(k)fluoranthene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Benzyl butyl phthalate	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Biphenyl (Diphenyl)	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	bis(2-Chloroethoxy) Methane	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	bis(2-Chloroisopropyl) Ether	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	bis(2-Ethylhexyl) Phthalate	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Caprolactam	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Carbazole	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Chrysene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Di-n-Butyl Phthalate	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Di-n-Octylphthalate	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Dibenz(a,h)anthracene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Dibenzofuran	ND	ND	210		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Diethyl Phthalate	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Dimethyl Phthalate	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Fluoranthene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Fluorene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Hexachlorobenzene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Hexachlorobutadiene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Hexachlorocyclopentadiene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Hexachloroethane	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Indeno(1,2,3-c,d)pyrene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Isophorone	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	n-Nitrosodi-n-propylamine	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	n-Nitrosodiphenylamine	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Naphthalene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Nitrobenzene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Pentachlorophenol	ND	ND	400		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Phenanthrene	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Phenol	ND	ND	210		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Pyrene	ND	ND	210		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,1,1-Trichloroethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,1,2,2-Tetrachloroethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,1,2-Trichloroethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,1-Dichloroethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,1-Dichloroethene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,2,3-Trichlorobenzene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,2,3-Trichloropropane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,2,4-Trichlorobenzene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,2-Dibromo-3-chloropropane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,2-Dibromoethane (EDB)	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,2-Dichlorobenzene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,2-Dichloroethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,2-Dichloropropane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,3-Dichlorobenzene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,4-Dichlorobenzene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	1,4-Dioxane (p-Dioxane)	ND	ND	110		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2-Butanone (MEK)	ND	ND	11.0		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	2-Hexanone	ND	ND	11.0		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	4-Methyl-2-pentanone (MIBK)	ND	ND	11.0		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Acetone	12.0	12.0	11.0	0.00	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Benzene	ND	ND	5.60		NA	OK

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Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Bromochloromethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Bromodichloromethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Bromoform	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Bromomethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Carbon Disulfide	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Carbon Tetrachloride	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Chlorobenzene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Chloroethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Chloroform	13.0	5.50	5.60	81.1	NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Chloromethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	cis-1,2-Dichloroethylene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	cis-1,3-Dichloropropene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Cyclohexane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Dibromochloromethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Dichlorodifluoromethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Ethylbenzene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Isopropylbenzene (Cumene)	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	m,p-Xylene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Methyl Acetate	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Methylcyclohexane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Methylene Chloride	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	o-Xylene	ND	ND	5.60		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Styrene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Tetrachloroethene (PCE)	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Toluene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	trans-1,2-Dichloroethene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	trans-1,3-Dichloropropene	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Trichloroethene (TCE)	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Trichlorofluoromethane	ND	ND	5.60		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	Vinyl Chloride	ND	ND	5.60		NA	OK

Location	Analysis
JW-SB/SG24	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1564-14 / G1564-15	Aluminum	18000	19200	16.6	6.45	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1564-14 / G1564-15	Calcium	21900	18600	416	16.3	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1564-14 / G1564-15	Iron	28800	30400	8.30	5.41	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1564-14 / G1564-15	Magnesium	10200	10400	416	1.94	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1564-14 / G1564-15	Potassium	5760	5870	416	1.89	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1564-14 / G1564-15	Sodium	1610	1670	416	3.66	OK	NA

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JW-SB/SG24	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Antimony	ND	ND	0.890		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Arsenic	3.10	2.90	0.450	6.67	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Barium	215	226	4.50	4.99	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Beryllium	0.590	0.600	0.450	1.68	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Cadmium	0.240	0.180	0.450	28.6	NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Chromium	26.3	28.3	0.890	7.33	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Cobalt	16.2	16.9	0.450	4.23	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Copper	28.9	29.0	0.890	0.345	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Lead	5.30	5.40	0.450	1.87	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Manganese	676	689	4.50	1.90	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Nickel	21.0	21.9	0.450	4.20	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Selenium	ND	ND	2.20		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Silver	0.0580	0.0310	0.450	60.7	NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Thallium	0.300	0.320	0.450	6.45	NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Vanadium	55.3	57.8	2.20	4.42	OK	NA
Mar 17 2015	JW-SB24-25 / JW-SB24-26	G1566-14 / G1566-15	Zinc	89.5	96.5	0.890	7.53	OK	NA

Location	Analysis
JW-SB/SG24	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	PCB-1016 (Arochlor 1016)	ND	ND	40.0		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	PCB-1221 (Arochlor 1221)	ND	ND	40.0		NA	OK

Location	**Analysis**
JW-SB/SG24	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	PCB-1232 (Arochlor 1232)	ND	ND	40.0		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	PCB-1242 (Arochlor 1242)	ND	ND	40.0		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	PCB-1248 (Arochlor 1248)	ND	ND	40.0		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	PCB-1254 (Arochlor 1254)	ND	ND	40.0		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	PCB-1260 (Arochlor 1260)	ND	ND	40.0		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	PCB-1262 (Arochlor 1262)	ND	ND	40.0		NA	OK
Mar 17 2015	JW-SB24-25 / JW-SB24-26	1503063-12 / 1503063-13	PCB-1268 (Arochlor 1268)	ND	ND	40.0		NA	OK

Location	**Analysis**
JW-SB/SG26	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1553-19 / G1553-20	Mercury	0.0240	0.0210	0.100	13.3	NA	OK

Location	**Analysis**
JW-SB/SG26	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,2,4,5-Tetrachlorobenzene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2,3,4,6-Tetrachlorophenol	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2,4,5-Trichlorophenol	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2,4,6-Trichlorophenol	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2,4-Dichlorophenol	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2,4-Dimethylphenol	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2,4-Dinitrophenol	ND	ND	350		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2,4-Dinitrotoluene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2,6-Dinitrotoluene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2-Chloronaphthalene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2-Chlorophenol	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2-Methylnaphthalene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2-Methylphenol (o-Cresol)	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2-Nitroaniline	ND	ND	350		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2-Nitrophenol	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	3,3'-Dichlorobenzidine	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	3-Nitroaniline	ND	ND	350		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	4,6-Dinitro-2-Methylphenol	ND	ND	350		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	4-Bromophenyl phenyl ether	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	4-Chloro-3-Methylphenol	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	4-Chloroaniline	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	4-Chlorophenyl Phenyl Ether	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	4-Methylphenol (p-Cresol)	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	4-Nitroaniline	ND	ND	350		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	4-Nitrophenol	ND	ND	350		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Acenaphthene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Acenaphthylene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Acetophenone	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Anthracene	ND	ND	180		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Atrazine	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Benzaldehyde	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Benzo(a)anthracene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Benzo(a)pyrene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Benzo(b)fluoranthene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Benzo(g,h,i)perylene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Benzo(k)fluoranthene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Benzyl butyl phthalate	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Biphenyl (Diphenyl)	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	bis(2-Chloroethoxy) Methane	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	bis(2-Chloroisopropyl) Ether	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	bis(2-Ethylhexyl) Phthalate	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Caprolactam	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Carbazole	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Chrysene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Di-n-Butyl Phthalate	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Di-n-Octylphthalate	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Dibenz(a,h)anthracene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Dibenzofuran	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Diethyl Phthalate	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Dimethyl Phthalate	ND	ND	180		NA	OK

Location	Analysis
JW-SB/SG26	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Fluoranthene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Fluorene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Hexachlorobenzene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Hexachlorobutadiene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Hexachlorocyclopentadiene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Hexachloroethane	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Indeno(1,2,3-c,d)pyrene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Isophorone	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	n-Nitrosodi-n-propylamine	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	n-Nitrosodiphenylamine	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Naphthalene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Nitrobenzene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Pentachlorophenol	ND	ND	350		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Phenanthrene	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Phenol	ND	ND	180		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Pyrene	ND	ND	180		NA	OK

Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,1,1-Trichloroethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,1,2,2-Tetrachloroethane	ND	ND	6.10		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,1,2-Trichloroethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,1-Dichloroethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,1-Dichloroethene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,2,3-Trichlorobenzene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,2,3-Trichloropropane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,2,4-Trichlorobenzene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,2-Dibromo-3-chloropropane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,2-Dibromoethane (EDB)	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,2-Dichlorobenzene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,2-Dichloroethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,2-Dichloropropane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,3-Dichlorobenzene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,4-Dichlorobenzene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	1,4-Dioxane (p-Dioxane)	ND	ND	120		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2-Butanone (MEK)	ND	ND	12.0		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	2-Hexanone	ND	ND	12.0		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	4-Methyl-2-pentanone (MIBK)	ND	ND	12.0		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Acetone	ND	ND	12.0		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Benzene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Bromochloromethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Bromodichloromethane	ND	ND	6.10		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Bromoform	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Bromomethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Carbon Disulfide	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Carbon Tetrachloride	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Chlorobenzene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Chloroethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Chloroform	16.0	ND	6.10		NA	16
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Chloromethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	cis-1,2-Dichloroethylene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	cis-1,3-Dichloropropene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Cyclohexane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Dibromochloromethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Dichlorodifluoromethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Ethylbenzene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Isopropylbenzene (Cumene)	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	m,p-Xylene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Methyl Acetate	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Methylcyclohexane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Methylene Chloride	2.70	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	o-Xylene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Styrene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	tert-Butyl Methyl Ether (MTBE)	ND	ND	6.10		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Tetrachloroethene (PCE)	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Toluene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	trans-1,2-Dichloroethene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	trans-1,3-Dichloropropene	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Trichloroethene (TCE)	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Trichlorofluoromethane	ND	ND	6.10		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	Vinyl Chloride	ND	ND	6.10		NA	OK

Location	Analysis
JW-SB/SG26	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1553-19 / G1553-20	Aluminum	9540	8410	14.5	12.6	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1553-19 / G1553-20	Calcium	4620	4350	362	6.02	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1553-19 / G1553-20	Iron	17900	16400	7.20	8.75	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1553-19 / G1553-20	Magnesium	5670	5130	362	10.0	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1553-19 / G1553-20	Potassium	3250	2920	362	10.7	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1553-19 / G1553-20	Sodium	795	734	362	7.98	OK	NA

Location	Analysis
JW-SB/SG26	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Antimony	ND	ND	0.740		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Arsenic	1.10	1.10	0.370	0.00	OK	NA

Location	Analysis
JW-SB/SG26	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Barium	99.2	95.4	3.70	3.91	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Beryllium	0.250	0.240	0.370	4.08	NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Cadmium	0.0580	0.0580	0.370	0.00	NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Chromium	12.1	11.2	0.740	7.73	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Cobalt	7.90	7.80	0.370	1.27	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Copper	10.6	10.4	0.740	1.90	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Lead	2.50	2.40	0.370	4.08	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Manganese	267	269	3.70	0.746	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Nickel	9.10	8.70	0.370	4.49	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Selenium	ND	ND	1.80		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Silver	ND	ND	0.370		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Thallium	ND	ND	0.370		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Vanadium	28.6	28.1	1.80	1.76	OK	NA
Mar 16 2015	JW-SB26-15 / JW-SB26-16	G1554-19 / G1554-20	Zinc	46.2	45.9	0.740	0.651	OK	NA

Location	Analysis
JW-SB/SG26	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	PCB-1016 (Arochlor 1016)	ND	ND	35.0		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	PCB-1221 (Arochlor 1221)	ND	ND	35.0		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	PCB-1232 (Arochlor 1232)	ND	ND	35.0		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	PCB-1242 (Arochlor 1242)	ND	ND	35.0		NA	OK

Data Quality Summary Report
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Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG26	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	PCB-1248 (Arochlor 1248)	ND	ND	35.0		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	PCB-1254 (Arochlor 1254)	ND	ND	35.0		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	PCB-1260 (Arochlor 1260)	ND	ND	35.0		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	PCB-1262 (Arochlor 1262)	ND	ND	35.0		NA	OK
Mar 16 2015	JW-SB26-15 / JW-SB26-16	1503062-16 / 1503062-17	PCB-1268 (Arochlor 1268)	ND	ND	35.0		NA	OK

Location	Analysis
JW-SB/SG26	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1,1,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1,2,2-Tetrachloroethane	ND	ND	70.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	77.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1,2-Trichloroethane	ND	ND	55.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,2,4-Trichlorobenzene	ND	ND	75.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,2,4-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,3,5-Trimethylbenzene	ND	ND	50.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,4-Dichlorobenzene	ND	ND	61.0		NA	OK

Data Quality Summary Report
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Jervis B. Webb Company Superfund Site
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Location	Analysis
JW-SB/SG26	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Benzene	ND	ND	16.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Bromodichloromethane	ND	ND	68.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Bromomethane	ND	ND	39.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Chloroethane	ND	ND	27.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Chloroform	ND	ND	25.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Chloromethane	ND	ND	21.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Dichlorodifluoromethane	ND	ND	50.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Ethylbenzene	ND	ND	22.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Isopropylbenzene (Cumene)	ND	ND	50.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	m,p-Xylene	ND	ND	44.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Methylene Chloride	ND	ND	35.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	n-Butylbenzene	ND	ND	28.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	n-Propylbenzene	ND	ND	50.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Naphthalene	ND	ND	27.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	o-Xylene	ND	ND	22.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	sec-Butylbenzene	ND	ND	28.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	tert-Butylbenzene	ND	ND	56.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Tetrachloroethene (PCE)	230	170	34.0	30.0	OK	NA

Data Quality Summary Report
Field Duplicate Report By Event and Site
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Location	Analysis
JW-SB/SG26	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Toluene	ND	ND	38.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Trichloroethene (TCE)	110	53.0	27.0	69.9	Out	NA
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Trichlorofluoromethane	ND	ND	56.0		NA	OK
Mar 31 2015	SB/SG26-35 / SB/SG26-35 Rep	E503146-07 / E503146-08	Vinyl Chloride	ND	ND	13.0		NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35