SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
Organic Data Review Checklist - Standard Validation

Project: Harley-Davidson

SDG No: 180-46875-1

Analysis: See Attached

Method: See Attached

Laboratory: TestAmerica Pittsburgh

Matrix: Water

The above data package has been reviewed and the analytical quality control/quality assurance performance data have been summarized. The general criteria used to assess the analytical integrityof the data were based on an examination of the following:

Case Narrative
Analytical Holding Times
Sample Preservation

Project Blanks

Project Specific QA/QC or contract requirements may take priority over validation criteria in this procedure.

Overall Remarks: CCV and MS/MSD issues/qualifiers.

Definition of Qualifiers:

"U", not detected at the associated level
"UJ", not detected and associated value estimated
"J", associated value estimated
"R", associated value unusable or analyte identity unfounded
"=", compound properly identified and value positive

Reviewed by: Alan G. Miller JI. Date: 11/6/15

QA Reviewed by: CARue Date: 1-25-16

FR Alan 12/9/15

I. Case Narrative

Verify direct statements made within the Laboratory Case Narrative (note discrepancies).

Remarks: No issues

II. Re-analysis and Secondary Dilutions

Verify that re-analysis and secondary dilutions were performed and reported as necessary. Determine appropriate results to report.

Remarks:

III. Holding Times

VOC - Waters - unpreserved: aromatic within 7 days, non-aromatic within 14 days of sample collection
VOC - Waters - preserved: aromatic and non-aromatic within 14 days of sample collection
VOC - Soils - preserve or analyze within 48 hours of sample collection; analyze within 14 days of preservation

SVOC, Pest., PCB - Waters - extract within 7 days of sample collection, analyze within 40 days of extraction
SVOC, Pest., PCB - Soils - extract within 14 days of sample collection, analyze within 40 days of extraction

Deviations:

Sample #	VOC		SVOC			Pest/PCB		
	Date Collected	Date Analyzed	Date Collected	Date Extracted	Date Analyzed	Date Collected	Date Extracted	Date Analyzed

Actions:
1. If holding times are exceeded, all results are qualified as estimated (J/UJ)
2. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)

Remarks: None

VI. Blanks

All blanks were reported per matrix per concentration level for each 12 hour period on each GC/MS system used to analyze VOCs and SVOCs Yes ☐ No ☐

Review associated laboratory and project blank samples. List documented contamination below:

Laboratory Method Blanks:

Date:	Lab ID #	Fraction	Compound	Conc. (ppb)

Associated Project Blanks (e.g., equipment rinsates, trip blanks, etc.)

Date	Lab ID #	Fraction	Compound	Conc. (ppb)

Remarks: MB Detections for metals
No other issues

VI. Blanks (continued)

Calculate action levels based on 10X the highest blank concentration of "common laboratory solvents", VOCs (methylene chloride, acetone, toluene, 2-butanone, cyclohexane) or SVOCs (phthalates), and 5X the highest blank concentration for all other VOC, SVOC, Pesticides, and PCB compounds. Sample weights, volumes, and dilution factors must be taken into account when applying the 5X and 10X criteria. This allows the total amount of contaminant present to be considered.

Deviations:

Compound	Maximum Conc. Detected, (ppb)	Action Level (ppb)	Samples Affected

Actions:

1. If compound results exceed the action levels, the data are not qualified
2. If compound results are below the required reporting level, report results as non-detect (U) at the reporting level
3. If the compound is detected above the reporting level, but below the action level, qualify as not-detected (U)
4. If gross contamination exists in blanks (i.e.,, saturated peaks by GC/ MS), all affected compounds in the associated samles should be qualifed as unusable (R) due to interference.
5. If blanks were not analyzed per matrix per concentration level for each 12 hour period on each GC/MS system used to analyze VOCs and SVOCs use professional judgement to qualifty data. Data may be rejected (R).

Remarks: Methods Blank Detections no other issues

Hold Time Summary

SDG 180-46875-1

Sample Number	Sample Name	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-46875-1	HD-COD-SW-6-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-10	HD-COD-SW-16-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-12	HD-COD-SW-17-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-13	HD-COD-SW-20-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-14	HD-COD-SW-26-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-15	HD-COD-SW-27-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-16	HD-COD-SW-28-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-17	HD-COD-SW-29-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-18	HD-QC1-0/1-1	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-2	HD-COD-SW-7-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-3	HD-COD-SW-8-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-4	HD-COD-SW-9-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-5	HD-COD-SW-10-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-6	HD-COD-SW-11-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-7	HD-COD-SW-12-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-8	HD-COD-SW-13-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-9	HD-COD-SW-15-0/1-0	MCAWW 300.0	8/14/2015	8/15/2015		1
180-46875-1	HD-COD-SW-6-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-10	HD-COD-SW-16-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-12	HD-COD-SW-17-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-13	HD-COD-SW-20-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-14	HD-COD-SW-26-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-15	HD-COD-SW-27-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-16	HD-COD-SW-28-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-17	HD-COD-SW-29-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-18	HD-QC1-0/1-1	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-2	HD-COD-SW-7-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-3	HD-COD-SW-8-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-4	HD-COD-SW-9-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-5	HD-COD-SW-10-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-6	HD-COD-SW-11-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-7	HD-COD-SW-12-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-8	HD-COD-SW-13-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-9	HD-COD-SW-15-0/1-0	SM SM 2320B	8/14/2015	8/24/2015		10
180-46875-1	HD-COD-SW-6-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-1	HD-COD-SW-6-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-10	HD-COD-SW-16-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-10	HD-COD-SW-16-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-12	HD-COD-SW-17-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-12	HD-COD-SW-17-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10

Sample Number	Sample Name	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-46875-13	HD-COD-SW-20-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-13	HD-COD-SW-20-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-14	HD-COD-SW-26-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-14	HD-COD-SW-26-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-15	HD-COD-SW-27-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-15	HD-COD-SW-27-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-16	HD-COD-SW-28-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-16	HD-COD-SW-28-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-17	HD-COD-SW-29-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-17	HD-COD-SW-29-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-18	HD-QC1-0/1-1	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-18	HD-QC1-0/1-1	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-2	HD-COD-SW-7-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-2	HD-COD-SW-7-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-3	HD-COD-SW-8-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-3	HD-COD-SW-8-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-4	HD-COD-SW-9-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-4	HD-COD-SW-9-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-5	HD-COD-SW-10-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-5	HD-COD-SW-10-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-6	HD-COD-SW-11-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-6	HD-COD-SW-11-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-7	HD-COD-SW-12-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-7	HD-COD-SW-12-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-8	HD-COD-SW-13-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-8	HD-COD-SW-13-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-9	HD-COD-SW-15-0/1-0	SW846 6020A	8/14/2015	8/21/2015	8/17/2015	7
180-46875-9	HD-COD-SW-15-0/1-0	SW846 6020A	8/14/2015	8/24/2015	8/17/2015	10
180-46875-1	HD-COD-SW-6-0/1-0	SW846 8260C	8/14/2015	8/18/2015		4
180-46875-10	HD-COD-SW-16-0/1-0	SW846 8260C	8/14/2015	8/18/2015		4
180-46875-11	HD-QC1-0/1-2	SW846 8260C	8/14/2015	8/18/2015		4
180-46875-12	HD-COD-SW-17-0/1-0	SW846 8260C	8/14/2015	8/19/2015		5
180-46875-13	HD-COD-SW-20-0/1-0	SW846 8260C	8/14/2015	8/19/2015		5
180-46875-14	HD-COD-SW-26-0/1-0	SW846 8260C	8/14/2015	8/19/2015		5
180-46875-15	HD-COD-SW-27-0/1-0	SW846 8260C	8/14/2015	8/19/2015		5
180-46875-16	HD-COD-SW-28-0/1-0	SW846 8260C	8/14/2015	8/19/2015		5
180-46875-17	HD-COD-SW-29-0/1-0	SW846 8260C	8/14/2015	8/19/2015		5
180-46875-18	HD-QC1-0/1-1	SW846 8260C	8/14/2015	8/19/2015		5
180-46875-19	HD-QC2-0/1-2	SW846 8260C	8/14/2015	8/19/2015		5
180-46875-2	HD-COD-SW-7-0/1-0	SW846 8260C	8/14/2015	8/18/2015		4
180-46875-3	HD-COD-SW-8-0/1-0	SW846 8260C	8/14/2015	8/18/2015		4
180-46875-4	HD-COD-SW-9-0/1-0	SW846 8260C	8/14/2015	8/18/2015		4
180-46875-5	HD-COD-SW-10-0/1-0	SW846 8260C	8/14/2015	8/18/2015		4

Sample Number	Sample Name	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-46875-6	HD-COD-SW-11-0/1-0	SW846 8260C	8/14/2015	8/18/2015		4
180-46875-7	HD-COD-SW-12-0/1-0	SW846 8260C	8/14/2015	8/18/2015		4
180-46875-8	HD-COD-SW-13-0/1-0	SW846 8260C	8/14/2015	8/18/2015		4
180-46875-9	HD-COD-SW-15-0/1-0	SW846 8260C	8/14/2015	8/18/2015		4

Blank Detections

SDG 180-46875-1

Sample ID	Sample	Analyte	Result	Method	Units	Qual
MB 180-150950/1-A	MB 180-150950/1-A	Calcium	72.6	SW846 6020A	ug/L	J
MB 180-150950/1-A	MB 180-150950/1-A	Magnesium	111	SW846 6020A	ug/L	J
MB 180-150950/1-A	MB 180-150950/1-A	Potassium	25.6	SW846 6020A	ug/L	J
MB 180-150950/1-A	MB 180-150950/1-A	Sodium	90.2	SW846 6020A	ug/L	J

Qualifier Check

SDG 180-46875-1

Sample ID	Sample	Analyte	Result	5x	10x	Method	Units	Qual
180-46875-5	HD-COD-SW-10-0/1-0	Bicarbonate Alkalinity as CaCO3	260	1300	2600	SM SM 2320B	mg/L	B
180-46875-6	HD-COD-SW-11-0/1-0	Bicarbonate Alkalinity as CaCO3	210	1050	2100	SM SM 2320B	mg/L	B
180-46875-7	HD-COD-SW-12-0/1-0	Bicarbonate Alkalinity as CaCO3	200	1000	2000	SM SM 2320B	mg/L	B
180-46875-8	HD-COD-SW-13-0/1-0	Bicarbonate Alkalinity as CaCO3	140	700	1400	SM SM 2320B	mg/L	B
180-46875-9	HD-COD-SW-15-0/1-0	Bicarbonate Alkalinity as CaCO3	230	1150	2300	SM SM 2320B	mg/L	B
180-46875-10	HD-COD-SW-16-0/1-0	Bicarbonate Alkalinity as CaCO3	140	700	1400	SM SM 2320B	mg/L	B
180-46875-12	HD-COD-SW-17-0/1-0	Bicarbonate Alkalinity as CaCO3	290	1450	2900	SM SM 2320B	mg/L	B
180-46875-13	HD-COD-SW-20-0/1-0	Bicarbonate Alkalinity as CaCO3	170	850	1700	SM SM 2320B	mg/L	B
180-46875-14	HD-COD-SW-26-0/1-0	Bicarbonate Alkalinity as CaCO3	250	1250	2500	SM SM 2320B	mg/L	B
180-46875-15	HD-COD-SW-27-0/1-0	Bicarbonate Alkalinity as CaCO3	150	750	1500	SM SM 2320B	mg/L	B
180-46875-16	HD-COD-SW-28-0/1-0	Bicarbonate Alkalinity as CaCO3	210	1050	2100	SM SM 2320B	mg/L	B
180-46875-17	HD-COD-SW-29-0/1-0	Bicarbonate Alkalinity as CaCO3	140	700	1400	SM SM 2320B	mg/L	B
180-46875-1	HD-COD-SW-6-0/1-0	Bicarbonate Alkalinity as CaCO3	150	750	1500	SM SM 2320B	mg/L	B
180-46875-2	HD-COD-SW-7-0/1-0	Bicarbonate Alkalinity as CaCO3	140	700	1400	SM SM 2320B	mg/L	B
180-46875-3	HD-COD-SW-8-0/1-0	Bicarbonate Alkalinity as CaCO3	130	650	1300	SM SM 2320B	mg/L	B
180-46875-4	HD-COD-SW-9-0/1-0	Bicarbonate Alkalinity as CaCO3	190	950	1900	SM SM 2320B	mg/L	B
180-46875-18	HD-QC1-0/1-1	Bicarbonate Alkalinity as CaCO3	280	1400	2800	SM SM 2320B	mg/L	B
MB 180-151534/2	MB 180-151534/2	Bicarbonate Alkalinity as CaCO3	2.01	10.05	20.1	SM SM 2320B	mg/L	J
180-46875-5	HD-COD-SW-10-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	260	1300	2600	SM SM 2320B	mg/L	B
180-46875-6	HD-COD-SW-11-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	210	1050	2100	SM SM 2320B	mg/L	B
180-46875-7	HD-COD-SW-12-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	200	1000	2000	SM SM 2320B	mg/L	B
180-46875-8	HD-COD-SW-13-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	140	700	1400	SM SM 2320B	mg/L	B
180-46875-9	HD-COD-SW-15-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	230	1150	2300	SM SM 2320B	mg/L	B

Sample ID	Sample	Analyte	Result	5x	10x	Method	Units	Qual
180-46875-10	HD-COD-SW-16-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	140	700	1400	SM SM 2320B	mg/L	B
180-46875-12	HD-COD-SW-17-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	290	1450	2900	SM SM 2320B	mg/L	B
180-46875-13	HD-COD-SW-20-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	170	850	1700	SM SM 2320B	mg/L	B
180-46875-14	HD-COD-SW-26-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	250	1250	2500	SM SM 2320B	mg/L	B
180-46875-15	HD-COD-SW-27-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	150	750	1500	SM SM 2320B	mg/L	B
180-46875-16	HD-COD-SW-28-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	210	1050	2100	SM SM 2320B	mg/L	B
180-46875-17	HD-COD-SW-29-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	140	700	1400	SM SM 2320B	mg/L	B
180-46875-1	HD-COD-SW-6-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	150	750	1500	SM SM 2320B	mg/L	B
180-46875-2	HD-COD-SW-7-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	140	700	1400	SM SM 2320B	mg/L	B
180-46875-3	HD-COD-SW-8-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	130	650	1300	SM SM 2320B	mg/L	B
180-46875-4	HD-COD-SW-9-0/1-0	Total Alkalinity as CaCO3 to pH 4.5	190	950	1900	SM SM 2320B	mg/L	B
180-46875-18	HD-QC1-0/1-1	Total Alkalinity as CaCO3 to pH 4.5	280	1400	2800	SM SM 2320B	mg/L	B
MB 180-151534/2	MB 180-151534/2	Total Alkalinity as CaCO3 to pH 4.5	2.01	10.05	20.1	SM SM 2320B	mg/L	J
180-46875-5	HD-COD-SW-10-0/1-0	Calcium	100000	500000	1000000	SW846 6020A	ug/L	B
180-46875-6	HD-COD-SW-11-0/1-0	Calcium	73000	365000	730000	SW846 6020A	ug/L	B
180-46875-7	HD-COD-SW-12-0/1-0	Calcium	76000	380000	760000	SW846 6020A	ug/L	B
180-46875-8	HD-COD-SW-13-0/1-0	Calcium	46000	230000	460000	SW846 6020A	ug/L	B
180-46875-9	HD-COD-SW-15-0/1-0	Calcium	91000	455000	910000	SW846 6020A	ug/L	B
180-46875-10	HD-COD-SW-16-0/1-0	Calcium	41000	205000	410000	SW846 6020A	ug/L	B
180-46875-12	HD-COD-SW-17-0/1-0	Calcium	94000	470000	940000	SW846 6020A	ug/L	B
180-46875-13	HD-COD-SW-20-0/1-0	Calcium	57000	285000	570000	SW846 6020A	ug/L	B
180-46875-14	HD-COD-SW-26-0/1-0	Calcium	120000	600000	1200000	SW846 6020A	ug/L	B
180-46875-15	HD-COD-SW-27-0/1-0	Calcium	44000	220000	440000	SW846 6020A	ug/L	B
180-46875-16	HD-COD-SW-28-0/1-0	Calcium	77000	385000	770000	SW846 6020A	ug/L	B
180-46875-17	HD-COD-SW-29-0/1-0	Calcium	43000	215000	430000	SW846 6020A	ug/L	B

Sample ID	Sample	Analyte	Result	5x	10x	Method	Units	Qual
180-46875-1	HD-COD-SW-6-0/1-0	Calcium	47000	235000	470000	SW846 6020A	ug/L	B
180-46875-2	HD-COD-SW-7-0/1-0	Calcium	38000	190000	380000	SW846 6020A	ug/L	B
180-46875-3	HD-COD-SW-8-0/1-0	Calcium	41000	205000	410000	SW846 6020A	ug/L	B
180-46875-4	HD-COD-SW-9-0/1-0	Calcium	72000	360000	720000	SW846 6020A	ug/L	B
180-46875-18	HD-QC1-0/1-1	Calcium	92000	460000	920000	SW846 6020A	ug/L	B
MB 180-150950/1-A	MB 180-150950/1-A	Calcium	72.6	363	726	SW846 6020A	ug/L	J
180-46875-5	HD-COD-SW-10-0/1-0	Magnesium	19000	95000	190000	SW846 6020A	ug/L	B
180-46875-6	HD-COD-SW-11-0/1-0	Magnesium	19000	95000	190000	SW846 6020A	ug/L	B
180-46875-7	HD-COD-SW-12-0/1-0	Magnesium	12000	60000	120000	SW846 6020A	ug/L	B
180-46875-8	HD-COD-SW-13-0/1-0	Magnesium	11000	55000	110000	SW846 6020A	ug/L	B
180-46875-9	HD-COD-SW-15-0/1-0	Magnesium	20000	100000	200000	SW846 6020A	ug/L	B
180-46875-10	HD-COD-SW-16-0/1-0	Magnesium	9900	49500	99000	SW846 6020A	ug/L	B
180-46875-12	HD-COD-SW-17-0/1-0	Magnesium	21000	105000	210000	SW846 6020A	ug/L	B
180-46875-13	HD-COD-SW-20-0/1-0	Magnesium	12000	60000	120000	SW846 6020A	ug/L	B
180-46875-14	HD-COD-SW-26-0/1-0	Magnesium	20000	100000	200000	SW846 6020A	ug/L	B
180-46875-15	HD-COD-SW-27-0/1-0	Magnesium	11000	55000	110000	SW846 6020A	ug/L	B
180-46875-16	HD-COD-SW-28-0/1-0	Magnesium	14000	70000	140000	SW846 6020A	ug/L	B
180-46875-17	HD-COD-SW-29-0/1-0	Magnesium	10000	50000	100000	SW846 6020A	ug/L	B
180-46875-1	HD-COD-SW-6-0/1-0	Magnesium	11000	55000	110000	SW846 6020A	ug/L	B
180-46875-2	HD-COD-SW-7-0/1-0	Magnesium	10000	50000	100000	SW846 6020A	ug/L	B
180-46875-3	HD-COD-SW-8-0/1-0	Magnesium	11000	55000	110000	SW846 6020A	ug/L	B
180-46875-4	HD-COD-SW-9-0/1-0	Magnesium	14000	70000	140000	SW846 6020A	ug/L	B
180-46875-18	HD-QC1-0/1-1	Magnesium	20000	100000	200000	SW846 6020A	ug/L	B
MB 180-150950/1-A	MB 180-150950/1-A	Magnesium	111	555	1110	SW846 6020A	ug/L	J
180-46875-5	HD-COD-SW-10-0/1-0	Potassium	9400	47000	94000	SW846 6020A	ug/L	B

Sample ID	Sample	Analyte	Result	5x	10x	Method	Units	Qual
180-46875-6	HD-COD-SW-11-0/1-0	Potassium	2500	12500	25000	SW846 6020A	ug/L	B
180-46875-7	HD-COD-SW-12-0/1-0	Potassium	22000	110000	220000	SW846 6020A	ug/L	B
180-46875-8	HD-COD-SW-13-0/1-0	Potassium	8300	41500	83000	SW846 6020A	ug/L	B
180-46875-9	HD-COD-SW-15-0/1-0	Potassium	6100	30500	61000	SW846 6020A	ug/L	B
180-46875-10	HD-COD-SW-16-0/1-0	Potassium	8000	40000	80000	SW846 6020A	ug/L	B
180-46875-12	HD-COD-SW-17-0/1-0	Potassium	6100	30500	61000	SW846 6020A	ug/L	B
180-46875-13	HD-COD-SW-20-0/1-0	Potassium	3300	16500	33000	SW846 6020A	ug/L	B
180-46875-14	HD-COD-SW-26-0/1-0	Potassium	3700	18500	37000	SW846 6020A	ug/L	B
180-46875-15	HD-COD-SW-27-0/1-0	Potassium	7900	39500	79000	SW846 6020A	ug/L	B
180-46875-16	HD-COD-SW-28-0/1-0	Potassium	18000	90000	180000	SW846 6020A	ug/L	B
180-46875-17	HD-COD-SW-29-0/1-0	Potassium	8900	44500	89000	SW846 6020A	ug/L	B
180-46875-1	HD-COD-SW-6-0/1-0	Potassium	5000	25000	50000	SW846 6020A	ug/L	B
180-46875-2	HD-COD-SW-7-0/1-0	Potassium	8300	41500	83000	SW846 6020A	ug/L	B
180-46875-3	HD-COD-SW-8-0/1-0	Potassium	8100	40500	81000	SW846 6020A	ug/L	B
180-46875-4	HD-COD-SW-9-0/1-0	Potassium	17000	85000	170000	SW846 6020A	ug/L	B
180-46875-18	HD-QC1-0/1-1	Potassium	6200	31000	62000	SW846 6020A	ug/L	B
MB 180-150950/1-A	MB 180-150950/1-A	Potassium	25.6	128	256	SW846 6020A	ug/L	J
180-46875-5	HD-COD-SW-10-0/1-0	Sodium	54000	270000	540000	SW846 6020A	ug/L	B
180-46875-6	HD-COD-SW-11-0/1-0	Sodium	33000	165000	330000	SW846 6020A	ug/L	B
180-46875-7	HD-COD-SW-12-0/1-0	Sodium	96000	480000	960000	SW846 6020A	ug/L	B
180-46875-8	HD-COD-SW-13-0/1-0	Sodium	65000	325000	650000	SW846 6020A	ug/L	B
180-46875-9	HD-COD-SW-15-0/1-0	Sodium	64000	320000	640000	SW846 6020A	ug/L	B
180-46875-10	HD-COD-SW-16-0/1-0	Sodium	63000	315000	630000	SW846 6020A	ug/L	B
180-46875-12	HD-COD-SW-17-0/1-0	Sodium	61000	305000	610000	SW846 6020A	ug/L	B
180-46875-13	HD-COD-SW-20-0/1-0	Sodium	48000	240000	480000	SW846 6020A	ug/L	B

Sample ID	Sample	Analyte	Result	5x	10x	Method	Units	Qual
180-46875-14	HD-COD-SW-26-0/1-0	Sodium	91000	455000	910000	SW846 6020A	ug/L	B
180-46875-15	HD-COD-SW-27-0/1-0	Sodium	63000	315000	630000	SW846 6020A	ug/L	B
180-46875-16	HD-COD-SW-28-0/1-0	Sodium	82000	410000	820000	SW846 6020A	ug/L	B
180-46875-17	HD-COD-SW-29-0/1-0	Sodium	66000	330000	660000	SW846 6020A	ug/L	B
180-46875-1	HD-COD-SW-6-0/1-0	Sodium	58000	290000	580000	SW846 6020A	ug/L	B
180-46875-2	HD-COD-SW-7-0/1-0	Sodium	67000	335000	670000	SW846 6020A	ug/L	B
180-46875-3	HD-COD-SW-8-0/1-0	Sodium	64000	320000	640000	SW846 6020A	ug/L	B
180-46875-4	HD-COD-SW-9-0/1-0	Sodium	84000	420000	840000	SW846 6020A	ug/L	B
180-46875-18	HD-QC1-0/1-1	Sodium	65000	325000	650000	SW846 6020A	ug/L	B
MB 180-150950/1-A	MB 180-150950/1-A	Sodium	90.2	451	902	SW846 6020A	ug/L	J
180-46875-9	HD-COD-SW-15-0/1-0	1,1,1-Trichloroethane	0.52	2.6	5.2	SW846 8260C	ug/L	J
180-46875-18	HD-QC1-0/1-1	1,1,1-Trichloroethane	0.55	2.75	5.5	SW846 8260C	ug/L	J
180-46875-9	HD-COD-SW-15-0/1-0	1,1-Dichloroethane	0.18	0.9	1.8	SW846 8260C	ug/L	J
180-46875-12	HD-COD-SW-17-0/1-0	1,1-Dichloroethane	0.59	2.95	5.9	SW846 8260C	ug/L	J
180-46875-18	HD-QC1-0/1-1	1,1-Dichloroethane	0.21	1.05	2.1	SW846 8260C	ug/L	J
180-46875-9	HD-COD-SW-15-0/1-0	1,1-Dichloroethene	0.63	3.15	6.3	SW846 8260C	ug/L	J
180-46875-12	HD-COD-SW-17-0/1-0	1,1-Dichloroethene	0.88	4.4	8.8	SW846 8260C	ug/L	J
180-46875-18	HD-QC1-0/1-1	1,1-Dichloroethene	0.65	3.25	6.5	SW846 8260C	ug/L	J
180-46875-7	HD-COD-SW-12-0/1-0	Acetone	2.8	14	28	SW846 8260C	ug/L	J
180-46875-16	HD-COD-SW-28-0/1-0	Acetone	2.6	13	26	SW846 8260C	ug/L	J
180-46875-2	HD-COD-SW-7-0/1-0	Acetone	2.5	12.5	25	SW846 8260C	ug/L	J
180-46875-4	HD-COD-SW-9-0/1-0	Acetone	3.1	15.5	31	SW846 8260C	ug/L	J
180-46875-12	HD-COD-SW-17-0/1-0	Bromomethane				SW846 8260C	ug/L	^C
180-46875-14	HD-COD-SW-26-0/1-0	Bromomethane				SW846 8260C	ug/L	^C
180-46875-15	HD-COD-SW-27-0/1-0	Bromomethane				SW846 8260C	ug/L	^C
180-46875-16	HD-COD-SW-28-0/1-0	Bromomethane				SW846 8260C	ug/L	^C
180-46875-17	HD-COD-SW-29-0/1-0	Bromomethane				SW846 8260C	ug/L	^C
180-46875-18	HD-QC1-0/1-1	Bromomethane				SW846 8260C	ug/L	^C
180-46875-19	HD-QC2-0/1-2	Bromomethane				SW846 8260C	ug/L	^C
180-46875-15	HD-COD-SW-27-0/1-0	Carbon disulfide	0.23	1.15	2.3	SW846 8260C	ug/L	J
180-46875-6	HD-COD-SW-11-0/1-0	Chloroform	0.20	1	2	SW846 8260C	ug/L	J
180-46875-9	HD-COD-SW-15-0/1-0	Chloroform	0.25	1.25	2.5	SW846 8260C	ug/L	J
180-46875-12	HD-COD-SW-17-0/1-0	Chloroform	0.22	1.1	2.2	SW846 8260C	ug/L	J
180-46875-14	HD-COD-SW-26-0/1-0	Chloroform	0.89	4.45	8.9	SW846 8260C	ug/L	J

Sample ID	Sample	Analyte	Result	5x	10x	Method	Units	Qual
180-46875-15	HD-COD-SW-27-0/1-0	Chloroform	0.19	0.95	1.9	SW846 8260C	ug/L	J
180-46875-18	HD-QC1-0/1-1	Chloroform	0.20	1	2	SW846 8260C	ug/L	J
180-46875-5	HD-COD-SW-10-0/1-0	Chloromethane				SW846 8260C	ug/L	^c
180-46875-6	HD-COD-SW-11-0/1-0	Chloromethane				SW846 8260C	ug/L	^c
180-46875-7	HD-COD-SW-12-0/1-0	Chloromethane				SW846 8260C	ug/L	^c
180-46875-8	HD-COD-SW-13-0/1-0	Chloromethane				SW846 8260C	ug/L	^c
180-46875-9	HD-COD-SW-15-0/1-0	Chloromethane				SW846 8260C	ug/L	^c
180-46875-10	HD-COD-SW-16-0/1-0	Chloromethane				SW846 8260C	ug/L	^c
180-46875-13	HD-COD-SW-20-0/1-0	Chloromethane				SW846 8260C	ug/L	^c
180-46875-1	HD-COD-SW-6-0/1-0	Chloromethane				SW846 8260C	ug/L	^c
180-46875-2	HD-COD-SW-7-0/1-0	Chloromethane				SW846 8260C	ug/L	^c
180-46875-3	HD-COD-SW-8-0/1-0	Chloromethane				SW846 8260C	ug/L	^c
180-46875-4	HD-COD-SW-9-0/1-0	Chloromethane				SW846 8260C	ug/L	^c
180-46875-11	HD-QC1-0/1-2	Chloromethane				SW846 8260C	ug/L	^c
180-46875-5	HD-COD-SW-10-0/1-0	cis-1,2-Dichloroethene	0.37	1.85	3.7	SW846 8260C	ug/L	J
180-46875-8	HD-COD-SW-13-0/1-0	cis-1,2-Dichloroethene	0.33	1.65	3.3	SW846 8260C	ug/L	J
180-46875-10	HD-COD-SW-16-0/1-0	cis-1,2-Dichloroethene	0.37	1.85	3.7	SW846 8260C	ug/L	J
180-46875-14	HD-COD-SW-26-0/1-0	cis-1,2-Dichloroethene	0.26	1.3	2.6	SW846 8260C	ug/L	J
180-46875-15	HD-COD-SW-27-0/1-0	cis-1,2-Dichloroethene	0.79	3.95	7.9	SW846 8260C	ug/L	J
180-46875-17	HD-COD-SW-29-0/1-0	cis-1,2-Dichloroethene	0.28	1.4	2.8	SW846 8260C	ug/L	J
180-46875-3	HD-COD-SW-8-0/1-0	cis-1,2-Dichloroethene	0.27	1.35	2.7	SW846 8260C	ug/L	J
180-46875-8	HD-COD-SW-13-0/1-0	Tetrachloroethene	0.47	2.35	4.7	SW846 8260C	ug/L	J
180-46875-10	HD-COD-SW-16-0/1-0	Tetrachloroethene	0.61	3.05	6.1	SW846 8260C	ug/L	J
180-46875-15	HD-COD-SW-27-0/1-0	Tetrachloroethene	0.39	1.95	3.9	SW846 8260C	ug/L	J
180-46875-17	HD-COD-SW-29-0/1-0	Tetrachloroethene	0.15	0.75	1.5	SW846 8260C	ug/L	J
180-46875-3	HD-COD-SW-8-0/1-0	Tetrachloroethene	0.23	1.15	2.3	SW846 8260C	ug/L	J
180-46875-4	HD-COD-SW-9-0/1-0	Tetrachloroethene	0.16	0.8	1.6	SW846 8260C	ug/L	J
180-46875-7	HD-COD-SW-12-0/1-0	Toluene	0.18	0.9	1.8	SW846 8260C	ug/L	J
180-46875-12	HD-COD-SW-17-0/1-0	Trichloroethene	19	95	190	SW846 8260C	ug/L	F1
180-46875-8	HD-COD-SW-13-0/1-0	Trichloroethene	0.49	2.45	4.9	SW846 8260C	ug/L	J
180-46875-10	HD-COD-SW-16-0/1-0	Trichloroethene	0.44	2.2	4.4	SW846 8260C	ug/L	J
180-46875-14	HD-COD-SW-26-0/1-0	Trichloroethene	0.34	1.7	3.4	SW846 8260C	ug/L	J
180-46875-15	HD-COD-SW-27-0/1-0	Trichloroethene	0.76	3.8	7.6	SW846 8260C	ug/L	J
180-46875-17	HD-COD-SW-29-0/1-0	Trichloroethene	0.24	1.2	2.4	SW846 8260C	ug/L	J
180-46875-2	HD-COD-SW-7-0/1-0	Trichloroethene	0.20	1	2	SW846 8260C	ug/L	J
180-46875-3	HD-COD-SW-8-0/1-0	Trichloroethene	0.25	1.25	2.5	SW846 8260C	ug/L	J
180-46875-4	HD-COD-SW-9-0/1-0	Trichloroethene	0.23	1.15	2.3	SW846 8260C	ug/L	J
180-46875-5	HD-COD-SW-10-0/1-0	Vinyl chloride				SW846 8260C	ug/L	^c
180-46875-6	HD-COD-SW-11-0/1-0	Vinyl chloride				SW846 8260C	ug/L	^c

Sample ID	Sample	Analyte	Result	5x	10x	Method	Units	Qual
180-46875-7	HD-COD-SW-12-0/1-0	Vinyl chloride				SW846 8260C	ug/L	^c
180-46875-8	HD-COD-SW-13-0/1-0	Vinyl chloride				SW846 8260C	ug/L	^c
180-46875-9	HD-COD-SW-15-0/1-0	Vinyl chloride				SW846 8260C	ug/L	^c
180-46875-10	HD-COD-SW-16-0/1-0	Vinyl chloride				SW846 8260C	ug/L	^c
180-46875-13	HD-COD-SW-20-0/1-0	Vinyl chloride				SW846 8260C	ug/L	^c
180-46875-1	HD-COD-SW-6-0/1-0	Vinyl chloride				SW846 8260C	ug/L	^c
180-46875-2	HD-COD-SW-7-0/1-0	Vinyl chloride				SW846 8260C	ug/L	^c
180-46875-3	HD-COD-SW-8-0/1-0	Vinyl chloride				SW846 8260C	ug/L	^c
180-46875-4	HD-COD-SW-9-0/1-0	Vinyl chloride				SW846 8260C	ug/L	^c
180-46875-11	HD-QC1-0/1-2	Vinyl chloride				SW846 8260C	ug/L	^c