TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-10462-1
TestAmerica Sample Delivery Group: SL1764
Client Project/Site: S,W,I,A ,X SAFS- GROUNDWATER
Revision: 1

For:
CH2M Hill Plateau Remediation Company
PO BOX 1600, MS H8-41
Richland, Washington 99352

Attn: General Mailbox

Authorized for release by:
4/9/2015 1:07:55 PM

Jayna Awalt, Project Manager II
(314)298-8566
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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CASE NARRATIVE

Rev. 1 - MB detect for Chloride has been discussed in below narrative per P&D SL1764.

CH2MHill Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352
March 16, 2015
Attention: Scot Fitzgerald

SDG	: SL1764
Number of Samples	: 16 samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: February 14, 2015

II. Introduction

Between February 12 and 14, 16 samples were received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and receipt checklists for documentation of any variations on receipt conditions and temperature. Upon receipt, samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

The following SAFs are associated with this SDG: I15-012, I15-014, S15-002, X15-004, I15-015, I15-019

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

MS/MSD/Dup analysis was done per the client requirements. Analytical batches that did not contain matrix QC were analyzed with an LCS/LCS duplicate.

Note: For Metals analyses, per standard practice, all 6020 water and soil samples are initially prepared at 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate flagging unless otherwise noted in the case narrative.

For Anion analysis, samples have been started at a 2x dilution per CHPRC direction. The samples are flagged accordingly with a “D” flag if sample concentration is above the MDL/RL. Non-conformance will be included in the below section only if dilution is greater than 2x.

For WTPH methods, the lab utilizes method 8015B. Per CHPRC direction, the method name in the electronic data has been modified to read WTPH in the place of 8015B.

Per CHPRC direction (June 2014), Boron will be reported for Metals using method 6010. Boron will no longer be reported by method 6020.

IV. Definitions

QCBLK- Quality Control Blank, Method Blank

Job ID: 160-10462-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

QCLCS- Quality Control Laboratory Control Sample, Blank Spike
DUP- Laboratory Duplicate
MS- Matrix Spike
MSD- Matrix Spike Duplicate

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

The following data qualifiers may be applicable to the results in this report, as appropriate.

- **B** - For inorganic analyses, the sample result is greater than the MDL but less than the RL.
- **B** - For organic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **J** - For organic analyses, the sample is estimated and less than the RL.
- **C** - For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **D** - For all analyses, the sample result was obtained from the analysis of a dilution. For Metals analyses, per standard practice, all solid samples are initially prepared at a 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate qualification unless otherwise noted in the case narrative.
- **N** - For inorganics and GC analyses, the spike/spike duplicate recoveries are outside QC limits.
- **T** - For GCMS analyses, the spike/spike duplicate recoveries are outside QC limits.
- **O**- For all analyses, the LCS (LCSD) recoveries are outside QC limits.
- **M**- For inorganic analyses, the precision was outside control limits.
- **P** - For organic analyses (PCB/Pests only), the aroclor target analyte has greater than 25% difference for detected concentrations between the two GC columns.

Volatiles

Batch: 174373

The continuing calibration verification (ZCCV8339) associated with batch 174373 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data has been reported. (CCVIS 160-174373/5).

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 174373 recovered outside control limits for the following analyte: Vinyl acetate. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data has been reported. (LCS 160-174373/6), (LCSD 160-174373/7) This analyte has been qualified accordingly with an "O" flag in the associated samples.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 174373 recovered outside control limits for the following analyte: Acetone. LCS/LCSD recoveries are within QC limits. No further action is required. (LCS 160-174373/6), (LCSD 160-174373/7)

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 174373 were outside control limits for Vinyl acetate. The LCS/LCSD recoveries for Vinyl acetate are also outside the upper acceptable QC limit indicating a potential positive bias for this analyte. Samples associated with this Batch QC were ND for Vinyl acetate and so sample data is not affected by this excursion. All sample data is included with this narrative. No further action is required. (160-10462-4 MS), (160-10462-4 MSD) This analyte has been qualified accordingly with a "T" flag in the associated samples.

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 174373 was outside control limits for 1- Butanol. MS/MSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix. No further action is required. (160-10462-4 MS), (160-10462-4 MSD)

Job ID: 160-10462-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The following samples were analyzed at reduced volume due to high concentrations of target analytes: B30H89 (160-10498-2). The reporting limits have been elevated by the appropriate factor. These analytes have been qualified accordingly with a "D" flag in the associated samples.

The initial calibration ICV recovery for Acrolein (31.1%) was below the acceptable QC limits (30%) indicating a potential negative bias for this analyte utilizing this calibration curve. Similar ICV excursions for Acrolein were observed on several calibrations on multiple instruments, using the same standard-mix, indicating a potential standard discrepancy between the primary and second source. The lab is investigating why this discrepancy exists. A reporting limit (RL) standard (1ug/L) was analyzed, and Acrolein was detected. Since the associated samples were non-detect for this analyte, the data has been reported. (CCVIS 160-174373/5), (LOQV 160-174373/8)

Batch: 174387

The continuing calibration verification (CCV) associated with batch 174387 recovered above the upper control limit for 1,2-Dibromo-3-chloropropane and vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 160-174387/5).

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 174387 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (LCS 160-174387/6), (LCSD 160-174387/7) This analyte has been qualified accordingly with an "O" flag in the associated samples.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 174387 were outside control limits for vinyl acetate. The associated client samples were non-detect for the affected analyte. (160-10517-1 MS), (160-10517-1 MSD) This analyte has been qualified accordingly with a "T" flag in the associated samples.

The following sample(s) were analyzed at reduced volume due to high concentrations of target analytes: B30H75 (160-10517-2), B30H80 (160-10517-3), B30HB3 (160-10517-4). The reporting limits have been elevated by the appropriate factor. These analytes have been qualified accordingly with a "D" flag in the associated samples.

Batch: 174940

The continuing calibration verification (CCV) associated with batch 174940 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 160-174940/5).

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 174940 recovered outside control limits for Vinyl acetate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. (LCS 160-174940/6), (LCSD 160-174940/7) This analyte has been qualified accordingly with an "O" flag in the associated samples.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 174940 due reanalysis. An LCS/LCSD was performed in order to demonstrate accuracy and replicate-precision. (LCS 160-174940/6), (LCSD 160-174940/7)

Semivolatiles

Batch: 176173

The laboratory control sample (LCS) for batch 174432/176173 recovered outside control limits for the following analytes: 3,3-Dichlorobenzidine and 4-Chloroaniline. These analytes were biased high in the LCS and qualified "O". These analytes were not targets of interest as this is analysis for 1,4-Dioxane only. (LCS 160-174432/2-A)

3,3-Dichlorobenzidine recovered high in the MSD giving this compound a potential high bias in the sample associated with this QC and has

Job ID: 160-10462-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

been qualified "T". This analysis was for 1,4-Dioxane only therefore the data has been reported. (160-10498-1 MSD)

Anions

Batch: 173736

Chloride was detected in method blank MB 160-173735/9 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “B”. If the associated sample reported a result above the MDL and/or RL and is not greater than 5x the method blank, the result has been flagged “C”.

The following matrix spike (MS) was outside control limits (89%) for Nitrite in batch 173736: (160-10462-1 MS). Sample matrix interference is suspected, because the associated laboratory control sample (LCS) recovery was within acceptance limits. This analyte has been qualified accordingly with an "N" flag in the associated samples.

Alkalinity

Batch: 174441

Alkalinity and Bicarbonate Alkalinity were detected in method blank MB 160-174441/21 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “B”. If the associated sample reported a result above the MDL and/or RL and is not greater than 5x the method blank, the result has been flagged “C”.

Alkalinity and Bicarbonate Alkalinity were detected in method blank MB 160-174441/41 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “B”. If the associated sample reported a result above the MDL and/or RL and is not greater than 5x the method blank, the result has been flagged “C”.

TOX

Batch: 177405

The following samples in TOX batch 177405 exhibited bottom column results greater than 10% of the combined results of the top and bottom columns: (160-10367-7 DU), B303H7 (160-10462-3). However, the data is not believed to be adversely affected, as the samples did not contain any residual chlorine and the carbon columns were not overloaded. Thus, this excursion is attributed to column channeling and results may be reported, per method 9020B.

Sulfide

Batch: 174952

The following samples were prepared outside of 1x preparation holding time due to lab error: B30H65 (160-10517-1), B30H75 (160-10517-2), B30H80 (160-10517-3), B30H89 (160-10498-2), B30HB3 (160-10517-4), B30HB8 (160-10517-5). Samples were analyzed within 2x hold. Per SDR15-245, the sample data for analysis performed outside 1x hold but within 2x hold has been reported.

Carbon-14

Batch: 175025

The carbon-14 sample duplicate (DU) replicate error ratio (RER) associated with the following samples was outside the limit of 1.0 (1.65): (160-10367-4 DU), (160-10367-5 MS), (LCS 160-174386/2-A), (MB 160-174386/1-A), B303H7 (160-10462-3). Duplicate precision is demonstrated by an acceptable relative percent difference (RPD) within the limit of 40% (38%).

Job ID: 160-10462-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

There were no observations or non-conformances associated with the following methods:

TDS
Cyanide
TOC

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager or designee and the laboratory's client services representative as verified by their signature on this report.

Reviewed and approved:

Jayna Awalt
St. Louis Project Manager

Problem and Discrepancy Report

TASL

SDG SL1764

4/07/15

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1. **The data package has the following issues:**

   There is a MB detect (B qualifier) for chloride that is not discussed in the narrative.

   Resolution: *Provide appropriate correction.*

Lab Response: Narrative comment was added to narrative.

Please correct the issue and resubmit the hard copy data package.

Provide a resolution to each issue noted on the report

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR15-245
REV NUM	0
DATE INITIATED	3/17/2015

SAMPLE EVENT INFORMATION

SAF NUM(S)	I15-019
OPERABLE UNIT(S)	200-ZP-1
PROJECT(S)	CERC15
SAMPLE EVENT TITLE(S)	CERC15
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	6
SAMPLE NUMBERS	B30H65, B30H75, B30H80, B30H89, B30HB3, B30HB8
SAMPLE MATRIX	WATER
COLLECTION DATE	2/12/2015 - 2/12/2015
SDG NUM	SL1764

ISSUE BACKGROUND

CLASS	Laboratory Issue
TYPE	Analysis Holding Time Exceeded
DESCRIPTION	Samples were prepared outside 1x hold for Sulfide due to lab error. This is currently being investigated by management through corrective action.

DISPOSITION

DESCRIPTION	TASL PROPOSES TO REPORT DATA FOR ANALYSIS PERFORMED OUTSIDE 1X HOLD BUT WITHIN 2X HOLD AND NARRATE IN REPORT.
JUSTIFICATION	Final Disposition: Accept proposed disposition. SUBMITTED BY: Jayna Awalt DATE: 03/16/2015 ACCEPTED BY: Scot Fitzgerald DATE: 03/17/2015

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-10462-1
SDG Number: SL1764

Login Number: 10462
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

73 lbs

CH2MHill Plateau Remediation Company 514764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I15-012-088**

Page 1 of 1

Collector	J.R. Aguilar/CHPRC	**Contact/Requester**	WATERS-HUSTED, K	**Telephone No.**	376-4650
SAF No.	I15-012	**Sampling Origin**	HANFORD SITE	**Purchase Order/Charge Code**	300071
Project Title	Special Surv Sampling, January 2014	**Logbook No.**	HNF-N-506 71/75	**Ice Chest No.**	6005-426
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	772890879942
Protocol	SURV	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B303H2	N	W	2-11-15	1152	1x500-mL P	300.0_ANIONS_IC: COMMON ✓	48 Hours	Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.R. Aguilar/CHPRC			FEB 11 2015 1200	L.D. Wall CHPRC		L.D. Wall	FEB 11 2015 1200
L.D. Wall CHPRC		L.D. Wall	FEB 11 2015 1400	FEDEX			
FED EX				Jill Clarke		Jill Clarke	2-12-15 0900

Matrix *

S	= Soil		DS	= Drum Solids	
SE	= Sediment		DL	= Drum Liquids	
SO	= Solid		T	= Tissue	
SL	= Sludge		WI	= Wipe	
W	= Water		L	= Liquid	
O	= Oil		V	= Vegetation	
A	= Air		X	= Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PRINTED O 12/11/2014

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company SL1764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I15-012-087**

Collector	J.R. Aguilar/CHPRC	**Contact/Requester**	WATERS-HUSTED, K	**Telephone No.**	376-4650
SAF No.	I15-012	**Sampling Origin**	HANFORD SITE	**Purchase Order/Charge Code**	300071
Project Title	Special Surv Sampling, January 2014	**Logbook No.**	HNF-N-506 71 / 75	**Ice Chest No.**	GWS-426
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	772890879942
Protocol	SURV	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B303H1	N	W	2-11-15	1152	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B303H1	N	W	2-11-15	1152	1x250-mL G/P	9012_CYANIDE: COMMON ✓	14 Days	NaOH to pH >=12/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.R. Aguilar/CHPRC			FEB 1 1 2015 1200	L.D. Wall CHPRC		L.D. Wall	FEB 1 1 2015 1200
L.D. Wall CHPRC		L.D. Wall	FEB 1 1 2015 1400	FEDEX			
FED EX				Jill Clark		Jill Clark	2.12.15 0900

Matrix *

S	= Soil	DS	= Drum Solids		
SE	= Sediment	DL	= Drum Liquids		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wipe		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PRINTED O 12/11/2014 A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company 847604

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I15-012-091**

Collector	J.R. Aguilar/CHPRC	**Contact/Requester**	WATERS-HUSTED, K	**Telephone No.**	376-4650
SAF No.	I15-012	**Sampling Origin**	HANFORD SITE	**Purchase Order/Charge Code**	300071
Project Title	Special Surv Sampling, January 2014	**Logbook No.**	HNF-N-506 71 / 75	**Ice Chest No.**	GWS-426
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7728 9087 9442
Protocol	SURV	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B303H7	N	W	2-11-15	0936	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B303H7	N	W	2-11-15	0936	2x1-L G/P	C14_LSC: COMMON ✓	6 Months	None
B303H7	N	W	2-11-15	0936	4x40-mL aGs*	8260_VOA_GCMS: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.R. Aguilar/CHPRC			FEB 11 2015 1025	F.M. Hall CHPRC			FEB 11 2015 1025
F.M. Hall CHPRC			FEB 11 2015 1400	F.M. Hall CHPRC		2-11-15	
FED EX				Jill Clark	Jill Clark	2-12-15	0900

Matrix *

S	= Soil		DS	= Drum Solids	
SE	= Sediment		DL	= Drum Liquids	
SO	= Solid		T	= Tissue	
SL	= Sludge		WI	= Wipe	
W	= Water		L	= Liquid	
O	= Oil		V	= Vegetation	
A	= Air		X	= Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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CH2MHill Plateau Remediation Company SLI764	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I15-014-076 Page 1 of 1

Collector	K.C. Patterson CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	I15-014	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	200-ZP-1, FEB 2015	Logbook No.	HNF-N-506 69/84	Ice Chest No.	GWS-426
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7728908799 42
Protocol	CERCLA	Priority: 30 Days	PRIORITY	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B306Y8	N	W	FEB 10 2015	1321	4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K.C. Patterson CHPRC			FEB 10 2015 1400	SSU #1			FEB 10 2015 1400
SSU #1			FEB 11 2015 0715	L.D. Wall CHPRC		L.D. Wall	FEB 11 2015 0715
L.D. Wall CHPRC		L.D. Wall	FEB 11 2015 1400	FEDEX			
FED EX				Jill Clark		Jill Clark	2.12.15 0900

Matrix *			
S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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CH2MHill Plateau Remediation Company SL1764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I15-014-073**

Page 1 of 1

Collector	R.A. Shepard/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	I15-014	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	200-ZP-1, FEB 2015	**Logbook No.**	HNF-N-506 71 / 74	**Ice Chest No.**	GWS-426
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7728 9087 9942
Protocol	CERCLA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B306X3	N	W	2-10-15	1220	4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R.A. Shepard/CHPRC			FEB 10 2015 1510	SSU-1			FEB 10 2015 1510
SSU-1			FEB 11 2015 0715	L.D. Wall CHPRC		L.D. Wall	FEB 11 2015 0715
L.D. Wall CHPRC		L.D. Wall	FEB 11 2015 1400	FEDEX			
FED EX				Jill Clark		Jill Clark	2-12-15 0900

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PRINTED O 12/31/2014

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company SL1764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-002-218**

Page 1 of 1

Collector	S.W. King/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-002	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	SURV, FEB 2015	**Logbook No.**	HNF-N-506 74 / 44	**Ice Chest No.**	GW5-426
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	772890879942
Protocol	SURV	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B307N6	N	W	FEB 11 2015	0907	4x40-mL aGs*	8260_VOA_GCMS: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
S.W. King/CHPRC			FEB 11 2015 1115	B.E. Briggs CHPRC			FEB 11 2015 1115
B.E. Briggs CHPRC			FEB 11 2015 DD 2/11/15 1400	FEDEX			
FED EX				Jill Clarke			2-12-15 0900

Matrix *

S	= Soil		DS	= Drum Solids	
SE	= Sediment		DL	= Drum Liquids	
SO	= Solid		T	= Tissue	
SL	= Sludge		WI	= Wipe	
W	= Water		L	= Liquid	
O	= Oil		V	= Vegetation	
A	= Air		X	= Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PRINTED O 2/9/2015

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company 841764	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S15-002-217 Page 1 of 1

Collector	~~S.W. King/CHPRC~~ J.R. Zunker/CHPRC 7-2-11-15	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S15-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, FEB 2015	Logbook No.	HNF-N-506 74/44	Ice Chest No.	GWS-426
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	772890879942
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B307N5	N	W	FEB 11 2015	0700	4x40-mL aGs*	8260_VOA_GCMS: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~S.W. King/CHPRC~~ 7-2-11-15	J.R. Zunker/CHPRC	Zunker	FEB 11 2015 1115	B.E. Briggs CHPRC		BeBriggs	FEB 11 2015 1115
B.E. Briggs CHPRC		BeBriggs	FEB 11 2015 1400	FEDEX			
FED EX				Jill Clarke	Jill Clarke		2-12-15 0900

Matrix *

S	= Soil	DS	= Drum Solids		
SE	= Sediment	DL	= Drum Liquids		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wipe		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company SL17164

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X15-004-130**

Collector	J.R. Aguilar/CHPRC	**Contact/Requester**	WATERS-HUSTED, K	**Telephone No.**	376-4650
SAF No.	X15-004	**Sampling Origin**	HANFORD SITE	**Purchase Order/Charge Code**	300071
Project Title	GW Sitewide Surv, FY15	**Logbook No.**	HNF-N-506 71 / 75	**Ice Chest No.**	GWS-426
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	772890879942
Protocol	SURV	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Batch with A, I, S, and W SAFs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30HM7	N	W	2-11-15	0936	4x40-mL aGs*	8260_VOA_GCMS: COMMON	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.R. Aguilar/CHPRC			FEB 11 2015 1025	F.M. Hall CHPRC			FEB 11 2015 1025
F.M. Hall CHPRC			FEB 11 2015 1400	FEDEX			
FED EX				Jill Clarke			2-12-15 0900

Matrix *

S	= Soil	DS	= Drum Solids		
SE	= Sediment	DL	= Drum Liquids		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wipe		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PRINTED O 1/21/2015

A-6004-842 (REV 2)

IMPORTANT!
FedEx is closely monitoring the winter storm in the northeast region of the U.S. Learn Mc

FedEx ® Tracking

772890879942

Ship (P/U) date :
Wed 2/11/2015 3:30 pm

RICHLAND, WA US

Delivered
Signed for by: R.CASTELLO

Actual delivery :
Thur 2/12/2015 8:58 am

EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
▬ 2/12/2015 - Thursday		
8:58 am	Delivered	EARTH CITY, MO
6:53 am	On FedEx vehicle for delivery	EARTH CITY, MO
6:49 am	At local FedEx facility	EARTH CITY, MO
5:16 am	At destination sort facility	BERKELEY, MO
4:29 am	Departed FedEx location	MEMPHIS, TN
12:35 am	Arrived at FedEx location	MEMPHIS, TN
▬ 2/11/2015 - Wednesday		
5:02 pm	Left FedEx origin facility	PASCO, WA
3:30 pm	Picked up	PASCO, WA
3:01 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	772890879942	**Service**	FedEx Priority Overnight
Weight	73 lbs / 33.11 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	73 lbs / 33.11 kgs
Shipper reference	gws-426	**Packaging**	Your Packaging
Special handling section	Deliver Weekday		

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Small Business Center
Service Guide
Customer Support

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-10498-1
SDG Number: SL1764

Login Number: 10498
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CH2MHill Plateau Remediation Company 514764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I15-015-029**

Page 1 of 1

Collector	D.L. Floyd/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	I15-015	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	200-UP-1, FEB 2015	**Logbook No.**	HNF-N-506 69185	**Ice Chest No.**	GWS-397
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	2-12-15 N/A 772902201648
Protocol	CERCLA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30727	N	W	FEB 12 2015	1234	4x40-mL aGs*	8260_VOA_GCMS: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C
B30727	N	W	↓	↓	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1) ✓	7/40 Days	Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.L. Floyd/CHPRC			FEB 12 2015 1250	F.M. Hall CHPRC			FEB 12 2015 1250
F.M. Hall CHPRC			FEB 12 2015 1400	FEDEX			
FED EX				Jill Clark	Jill Clark		2.13.15 0920

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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CH2MHill Plateau Remediation Company SL764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I15-019-057**

Page 1 of 1

Collector	S.W. King/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	I15-019	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	200ZP1, MARCH 2015	**Logbook No.**	HNF-N-506 74/46	**Ice Chest No.**	GWS-397 59lbs
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	2-12-15 7729 0220 1648
Protocol	CERCLA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30H89	N	W	FEB 12 2015	1152	1x500-mL G/P	160.1_TDS: COMMON ✓	7 Days	Cool <=6C
B30H89	N	W			1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B30H89	N	W			4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C
B30H89	N	W			3x500-mL G/P	9034_SULFIDE: COMMON ✓	7 Days	ZnAc+NaOH to pH > 9/Cool <=6C
B30H89	N	W	FEB 12 2015	1152	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
S.W. King/CHPRC			FEB 12 2015 1246	F.M. Hall CHPRC			FEB 12 2015 1246
F.M. Hall CHPRC			FEB 12 2015 1400	FEDEX			
FED EX				Jill Clark	Jill Clark		2-13-15 0920

Matrix *

S	= Soil	DS	= Drum Solids		
SE	= Sediment	DL	= Drum Liquids		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wipe		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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IMPORTANT!
FedEx is closely monitoring the winter storm in the northeast region of the U.S. Learn More

FedEx ® Tracking

772902201648

Ship (P/U) date :
Thur 2/12/2015 3:32 pm

RICHLAND, WA US

Delivered
Signed for by: B.DANIELS

Actual delivery :
Fri 2/13/2015 9:14 am

EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 2/13/2015 - Friday		
9:14 am	Delivered	EARTH CITY, MO
7:37 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:33 am	At local FedEx facility	EARTH CITY, MO
5:55 am	At destination sort facility	BERKELEY, MO
5:05 am	Departed FedEx location	MEMPHIS, TN
12:15 am	Arrived at FedEx location	MEMPHIS, TN
- 2/12/2015 - Thursday		
5:05 pm	Left FedEx origin facility	PASCO, WA
3:42 pm	Shipment information sent to FedEx	
3:32 pm	Picked up	PASCO, WA

Shipment Facts

Tracking number	772902201648	**Service**	FedEx Priority Overnight
Weight	59 lbs / 26.76 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	59 lbs / 26.76 kgs
Shipper reference	gws-397	**Packaging**	Your Packaging
Special handling section	Deliver Weekday		

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-10517-1
SDG Number: SL1764

Login Number: 10517
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

83165

CH2MHill Plateau Remediation Company SL1764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I15-019-053**

Page 1 of 1

Collector	S.W. King/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	I15-019	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	200ZP1, MARCH 2015	**Logbook No.**	HNF-N-506 74/46	**Ice Chest No.**	GWS-307
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	777289 0120 7753
Protocol	CERCLA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A LW. 2/12/15

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30H65	N	W	FEB 12 2015	1036	1x500-mL G/P	160.1_TDS: COMMON ✓	7 Days	Cool <=6C
B30H65	N	W			1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B30H65	N	W			4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C
B30H65	N	W			3x500-mL G/P	9034_SULFIDE: COMMON ✓	7 Days	ZnAc+NaOH to pH > 9/Cool <=6C
B30H65	N	W	FEB 12 2015	1036	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
S.W. King/CHPRC			FEB 12 2015 1045	L.D. Wall CHPRC	L.D. Wall		FEB 12 2015 1045
L.D. Wall CHPRC	L.D. Wall		FEB 12 2015 1400	FEDEX			
FED EX				Jill Clarke	Jill Clarke		2-14-15 0915

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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CH2MHill Plateau Remediation Company 512764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I15-019-055**

Collector	D.L. Floyd/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	I15-019	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	200ZP1, MARCH 2015	**Logbook No.**	HNF-N-506 69/85	**Ice Chest No.**	GWS-307
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7729 0120 7753
Protocol	CERCLA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30H75	N	W	FEB 12 2015	1127	1x500-mL G/P	160.1_TDS: COMMON	7 Days	Cool <=6C
B30H75	N	W			1x500-mL G/P	310.1_ALKALINITY: GW 01	14 Days	Cool <=6C
B30H75	N	W			4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON	14 Days	HCl or H2SO4 to pH <2/Cool <=6C
B30H75	N	W			3x500-mL G/P	9034_SULFIDE: COMMON	7 Days	ZnAc+NaOH to pH > 9/Cool <=6C
B30H75	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.L. Floyd/CHPRC			FEB 12 2015 1137	L.D. Wall CHPRC			FEB 12 2015 1137
L.D. Wall CHPRC			FEB 12 2015 1400	FEDEX			
FED EX				Jill Clark	Jill Clark		2.14.15 0915

Matrix *

S	= Soil	DS	= Drum Solids		
SE	= Sediment	DL	= Drum Liquids		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wipe		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company 921764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I15-019-056**

Collector	D.L. Floyd/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	I15-019	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	200ZP1, MARCH 2015	**Logbook No.**	HNF-N-506 69/85	**Ice Chest No.**	GWS-307
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7729 0120 7753
Protocol	CERCLA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30H80	N	W	FEB 12 2015	1004	1x500-mL G/P	160.1_TDS: COMMON	7 Days	Cool <=6C
B30H80	N	W	↓	↓	1x500-mL G/P	310.1_ALKALINITY: GW 01	14 Days	Cool <=6C
B30H80	N	W			4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON	14 Days	HCl or H2SO4 to pH <2/Cool <=6C
B30H80	N	W			3x500-mL G/P	9034_SULFIDE: COMMON	7 Days	ZnAc+NaOH to pH > 9/Cool <=6C
B30H80	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.L. Floyd/CHPRC			FEB 12 2015 1105	L.D. Wall CHPRC			FEB 12 2015 1105
Relinquished By	L.D. Wall CHPRC		FEB 12 2015 1400	Received By	FEDEX		Date/Time
Relinquished By	FED EX		Date/Time	Received By	Jill Clarke		2-14-15 0915
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solids		
SE	= Sediment	DL	= Drum Liquids		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wipe		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company 511764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I15-019-059**

Collector	D.L. Floyd/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	I15-019	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	200ZP1, MARCH 2015	**Logbook No.**	HNF-N-506 69/85	**Ice Chest No.**	GWS-307
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7729 0120 7753
Protocol	CERCLA	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30HB3	N	W	FEB 12 2015	0903	1x500-mL G/P	160.1_TDS: COMMON	7 Days	Cool <=6C
B30HB3	N	W	↓	↓	1x500-mL G/P	310.1_ALKALINITY: GW 01	14 Days	Cool <=6C
B30HB3	N	W			4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON	14 Days	HCl or H2SO4 to pH <2/Cool <=6C
B30HB3	N	W			3x500-mL G/P	9034_SULFIDE: COMMON	7 Days	ZnAc+NaOH to pH > 9/Cool <=6C
B30HB3	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.L. Floyd/CHPRC			FEB 12 2015 1105	L.D. Wall CHPRC		R.D. Wall	FEB 12 2015 1105
L.D. Wall CHPRC		R.D. Wall	FEB 12 2015 1400	FEDEX			
FED EX				Jill Clarke		Jill Clarke	2.14.15 0915

Matrix *

S	= Soil		DS	= Drum Solids	
SE	= Sediment		DL	= Drum Liquids	
SO	= Solid		T	= Tissue	
SL	= Sludge		WI	= Wipe	
W	= Water		L	= Liquid	
O	= Oil		V	= Vegetation	
A	= Air		X	= Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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CH2MHill Plateau Remediation Company SH764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I15-019-060**

Collector	S.W. King/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	I15-019	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	200ZP1, MARCH 2015	**Logbook No.**	HNF-N-506 74 / 46	**Ice Chest No.**	GWS-307
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7729 0120 7753
Protocol	CERCLA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30HB8	N	W	FEB 12 2015	0851	1x500-mL G/P	160.1_TDS: COMMON	7 Days	Cool <=6C
B30HB8	N	W			1x500-mL G/P	310.1_ALKALINITY: GW 01	14 Days	Cool <=6C
B30HB8	N	W			4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON	14 Days	HCl or H2SO4 to pH <2/Cool <=6C
B30HB8	N	W			3x500-mL G/P	9034_SULFIDE: COMMON	7 Days	ZnAc+NaOH to pH > 9/Cool <=6C
B30HB8	N	W	FEB 12 2015	0851	1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
S.W. King/CHPRC			FEB 12 2015 1045	L.D. Wall CHPRC			FEB 12 2015 1045
L.D. Wall CHPRC			FEB 12 2015 1400	FEDEX			
FED EX				Jill Clarke			2-14-15 0915

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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CH2MHill Plateau Remediation Company 511764

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X15-004-131**

Collector	S.W. King/CHPRC	**Contact/Requester**	WATERS-HUSTED, K	**Telephone No.**	376-4650
SAF No.	X15-004	**Sampling Origin**	HANFORD SITE	**Purchase Order/Charge Code**	300071
Project Title	GW Sitewide Surv, FY15	**Logbook No.**	HNF-N-506 74 / 46	**Ice Chest No.**	GWS-307
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7729 0120 7753
Protocol	SURV	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Batch with A, I, S, and W SAFs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30HM9	N	W	FEB 12 2015	0851	4x40-mL aGs*	8260_VOA_GCMS: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
S.W. King/CHPRC			FEB 12 2015 1045	L.D. Wall CHPRC	L.D. Wall		FEB 12 2015 1045
L.D. Wall CHPRC	L.D. Wall		FEB 12 2015 1400	FEDEX			
FED EX				Jill Clarke	Jill Clarke		2.14.15 0915

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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772901207753

Ship (P/U) date :
Thur 2/12/2015 3:32 pm

RICHLAND, WA US

Delivered
Signed for by: A.CLARK

Actual delivery :
Sat 2/14/2015 9:11 am

EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 2/14/2015 - Saturday		
9:11 am	Delivered	EARTH CITY, MO
8:30 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:41 am	At local FedEx facility	EARTH CITY, MO
- 2/13/2015 - Friday		
3:05 pm	At destination sort facility	BERKELEY, MO
9:50 am	Departed FedEx location	MEMPHIS, TN
5:30 am	In transit	MEMPHIS, TN
12:15 am	Arrived at FedEx location	MEMPHIS, TN
- 2/12/2015 - Thursday		
5:05 pm	Left FedEx origin facility	PASCO, WA
3:32 pm	Picked up	PASCO, WA
2:54 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	772901207753	**Service**	FedEx Priority Overnight
Weight	83 lbs / 37.65 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	83 lbs / 37.65 kgs
Shipper reference	GWS-307	**Packaging**	Your Packaging
Special handling section	Deliver Weekday		

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Customer Focus
New Customer Center
Small Business Center
Service Guide
Customer Support

Company Information
About FedEx
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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
O	LCS, LCSD: Recovery exceeds upper or lower control limits.
T	MS, MSD: Recovery exceeds upper or lower control limits.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

GC/MS VOA TICs

Qualifier	Qualifier Description
T	MS, MSD: Recovery exceeds upper or lower control limits.
N	Presumptive evidence of material.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
T	MS, MSD: Recovery exceeds upper or lower control limits.
O	LCS, LCSD: Recovery exceeds upper or lower control limits.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL

General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL SL
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL SL
310.1	Alkalinity	MCAWW	TAL SL
9012B	Cyanide, Total andor Amenable	SW846	TAL SL
9020B	Organic Halides, Total (TOX)	SW846	TAL SL
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL SL
9060	Organic Carbon, Total (TOC)	SW846	TAL SL
C-01-1	Carbon-14 (EERF C-01-1)	EERF	TAL SL

Protocol References:

EERF = EERF

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-10462-1	B303H2	Water	02/11/15 11:52	02/12/15 09:00
160-10462-2	B303H1	Water	02/11/15 11:52	02/12/15 09:00
160-10462-3	B303H7	Water	02/11/15 09:36	02/12/15 09:00
160-10462-4	B306Y8	Water	02/10/15 13:21	02/12/15 09:00
160-10462-5	B306X3	Water	02/10/15 12:20	02/12/15 09:00
160-10462-6	B307N6	Water	02/11/15 09:07	02/12/15 09:00
160-10462-7	B307N5	Water	02/11/15 07:00	02/12/15 09:00
160-10462-8	B30HM7	Water	02/11/15 09:36	02/12/15 09:00
160-10498-1	B30727	Water	02/12/15 12:34	02/13/15 09:20
160-10498-2	B30H89	Water	02/12/15 11:52	02/13/15 09:20
160-10517-1	B30H65	Water	02/12/15 10:36	02/14/15 09:15
160-10517-2	B30H75	Water	02/12/15 11:27	02/14/15 09:15
160-10517-3	B30H80	Water	02/12/15 10:04	02/14/15 09:15
160-10517-4	B30HB3	Water	02/12/15 09:03	02/14/15 09:15
160-10517-5	B30HB8	Water	02/12/15 08:51	02/14/15 09:15
160-10517-6	B30HM9	Water	02/12/15 08:51	02/14/15 09:15

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: B303H7 — **Lab Sample ID: 160-10462-3**
Date Collected: 02/11/15 09:36 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/13/15 15:42	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/13/15 15:42	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/13/15 15:42	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/13/15 15:42	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/13/15 15:42	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/13/15 15:42	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/13/15 15:42	1
Acetone	0.34	U	2.0	0.34	ug/L			02/13/15 15:42	1
Benzene	0.060	U	1.0	0.060	ug/L			02/13/15 15:42	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/13/15 15:42	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/13/15 15:42	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/13/15 15:42	1
Chloroform	0.10	U	1.0	0.10	ug/L			02/13/15 15:42	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/13/15 15:42	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/13/15 15:42	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/13/15 15:42	1
Toluene	0.070	U	1.0	0.070	ug/L			02/13/15 15:42	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/13/15 15:42	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/13/15 15:42	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/13/15 15:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/13/15 15:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 129*		*02/13/15 15:42*	*1*
4-Bromofluorobenzene (Surr)	*115*		*81 - 130*		*02/13/15 15:42*	*1*
Dibromofluoromethane (Surr)	*106*		*81 - 124*		*02/13/15 15:42*	*1*
Toluene-d8 (Surr)	*110*		*87 - 128*		*02/13/15 15:42*	*1*

Client Sample ID: B306Y8 — **Lab Sample ID: 160-10462-4**
Date Collected: 02/10/15 13:21 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			02/17/15 11:44	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 11:44	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 11:44	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 11:44	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 11:44	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 11:44	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			02/17/15 11:44	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			02/17/15 11:44	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			02/17/15 11:44	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 11:44	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			02/17/15 11:44	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			02/17/15 11:44	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			02/17/15 11:44	1
1-Butanol	12	U	50	12	ug/L			02/17/15 11:44	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 11:44	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			02/17/15 11:44	1

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B306Y8
Date Collected: 02/10/15 13:21
Date Received: 02/12/15 09:00

Lab Sample ID: 160-10462-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 11:44	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 11:44	1
Acetonitrile	2.0	U	10	2.0	ug/L			02/17/15 11:44	1
Acrolein	2.8	U	10	2.8	ug/L			02/17/15 11:44	1
Acrylonitrile	0.58	U	10	0.58	ug/L			02/17/15 11:44	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			02/17/15 11:44	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 11:44	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			02/17/15 11:44	1
Bromoform	0.17	U	1.0	0.17	ug/L			02/17/15 11:44	1
Bromomethane	0.25	U	2.0	0.25	ug/L			02/17/15 11:44	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 11:44	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/17/15 11:44	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 11:44	1
Chloroethane	0.10	U	2.0	0.10	ug/L			02/17/15 11:44	1
Chloroform	**0.30**	**J**	1.0	0.10	ug/L			02/17/15 11:44	1
Chloromethane	0.080	U	2.0	0.080	ug/L			02/17/15 11:44	1
Chloroprene	0.10	U	1.0	0.10	ug/L			02/17/15 11:44	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			02/17/15 11:44	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			02/17/15 11:44	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			02/17/15 11:44	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			02/17/15 11:44	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			02/17/15 11:44	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			02/17/15 11:44	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			02/17/15 11:44	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 11:44	1
Iodomethane	0.090	U	2.0	0.090	ug/L			02/17/15 11:44	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			02/17/15 11:44	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			02/17/15 11:44	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			02/17/15 11:44	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/17/15 11:44	1
Styrene	0.070	U	1.0	0.070	ug/L			02/17/15 11:44	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 11:44	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			02/17/15 11:44	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 11:44	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			02/17/15 11:44	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			02/17/15 11:44	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			02/17/15 11:44	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/17/15 11:44	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			02/17/15 11:44	1
Vinyl acetate	0.18	U T O	2.0	0.18	ug/L			02/17/15 11:44	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 11:44	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 11:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*100*	*N*	*ug/L*		*2.85*			*02/17/15 11:44*	*1*
Isopropyl alcohol	*19*	*T*	*ug/L*		*6.20*	*67-63-0*		*02/17/15 11:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 129*		*02/17/15 11:44*	*1*
4-Bromofluorobenzene (Surr)	*106*		*81 - 130*		*02/17/15 11:44*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B306Y8 — **Lab Sample ID: 160-10462-4**
Date Collected: 02/10/15 13:21 — **Matrix: Water**
Date Received: 02/12/15 09:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*81 - 124*		*02/17/15 11:44*	*1*
Toluene-d8 (Surr)	*106*		*87 - 128*		*02/17/15 11:44*	*1*

Client Sample ID: B306X3 — **Lab Sample ID: 160-10462-5**
Date Collected: 02/10/15 12:20 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			02/17/15 12:08	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 12:08	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 12:08	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 12:08	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 12:08	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 12:08	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			02/17/15 12:08	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			02/17/15 12:08	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			02/17/15 12:08	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 12:08	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			02/17/15 12:08	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			02/17/15 12:08	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			02/17/15 12:08	1
1-Butanol	12	U	50	12	ug/L			02/17/15 12:08	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 12:08	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			02/17/15 12:08	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 12:08	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 12:08	1
Acetonitrile	2.0	U	10	2.0	ug/L			02/17/15 12:08	1
Acrolein	2.8	U	10	2.8	ug/L			02/17/15 12:08	1
Acrylonitrile	0.58	U	10	0.58	ug/L			02/17/15 12:08	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			02/17/15 12:08	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 12:08	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			02/17/15 12:08	1
Bromoform	0.17	U	1.0	0.17	ug/L			02/17/15 12:08	1
Bromomethane	0.25	U	2.0	0.25	ug/L			02/17/15 12:08	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 12:08	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/17/15 12:08	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 12:08	1
Chloroethane	0.10	U	2.0	0.10	ug/L			02/17/15 12:08	1
Chloroform	0.10	U	1.0	0.10	ug/L			02/17/15 12:08	1
Chloromethane	0.080	U	2.0	0.080	ug/L			02/17/15 12:08	1
Chloroprene	0.10	U	1.0	0.10	ug/L			02/17/15 12:08	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			02/17/15 12:08	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			02/17/15 12:08	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			02/17/15 12:08	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			02/17/15 12:08	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			02/17/15 12:08	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			02/17/15 12:08	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			02/17/15 12:08	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 12:08	1
Iodomethane	0.090	U	2.0	0.090	ug/L			02/17/15 12:08	1

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B306X3 — **Lab Sample ID: 160-10462-5**
Date Collected: 02/10/15 12:20 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	8.7	U	80	8.7	ug/L			02/17/15 12:08	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			02/17/15 12:08	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			02/17/15 12:08	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/17/15 12:08	1
Styrene	0.070	U	1.0	0.070	ug/L			02/17/15 12:08	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 12:08	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			02/17/15 12:08	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 12:08	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			02/17/15 12:08	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			02/17/15 12:08	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			02/17/15 12:08	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/17/15 12:08	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			02/17/15 12:08	1
Vinyl acetate	0.18	U T O	2.0	0.18	ug/L			02/17/15 12:08	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 12:08	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 12:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/17/15 12:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 129*		*02/17/15 12:08*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 130*		*02/17/15 12:08*	*1*
Dibromofluoromethane (Surr)	*101*		*81 - 124*		*02/17/15 12:08*	*1*
Toluene-d8 (Surr)	*104*		*87 - 128*		*02/17/15 12:08*	*1*

Client Sample ID: B307N6 — **Lab Sample ID: 160-10462-6**
Date Collected: 02/11/15 09:07 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 14:54	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 14:54	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 14:54	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 14:54	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 14:54	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 14:54	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 14:54	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 14:54	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 14:54	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 14:54	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/17/15 14:54	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 14:54	1
Chloroform	**2.1**		1.0	0.10	ug/L			02/17/15 14:54	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 14:54	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/17/15 14:54	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 14:54	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 14:54	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/17/15 14:54	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 14:54	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 14:54	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/17/15 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 129		02/17/15 14:54	1
4-Bromofluorobenzene (Surr)	106		81 - 130		02/17/15 14:54	1
Dibromofluoromethane (Surr)	100		81 - 124		02/17/15 14:54	1
Toluene-d8 (Surr)	105		87 - 128		02/17/15 14:54	1

Client Sample ID: B307N5 — **Lab Sample ID: 160-10462-7**
Date Collected: 02/11/15 07:00 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 15:17	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 15:17	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 15:17	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 15:17	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 15:17	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 15:17	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 15:17	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 15:17	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 15:17	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 15:17	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/17/15 15:17	1
Chlorobenzene	**0.19**	**J**	1.0	0.15	ug/L			02/17/15 15:17	1
Chloroform	0.10	U	1.0	0.10	ug/L			02/17/15 15:17	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 15:17	1
Methylene Chloride	**30**		1.0	0.27	ug/L			02/17/15 15:17	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 15:17	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 15:17	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/17/15 15:17	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 15:17	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 15:17	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/17/15 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 129		02/17/15 15:17	1
4-Bromofluorobenzene (Surr)	109		81 - 130		02/17/15 15:17	1
Dibromofluoromethane (Surr)	102		81 - 124		02/17/15 15:17	1
Toluene-d8 (Surr)	103		87 - 128		02/17/15 15:17	1

Client Sample ID: B30HM7 — **Lab Sample ID: 160-10462-8**
Date Collected: 02/11/15 09:36 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 15:41	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 15:41	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 15:41	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 15:41	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 15:41	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 15:41	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 15:41	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B30HM7 — **Lab Sample ID: 160-10462-8**
Date Collected: 02/11/15 09:36 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 15:41	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 15:41	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 15:41	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/17/15 15:41	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 15:41	1
Chloroform	0.10	U	1.0	0.10	ug/L			02/17/15 15:41	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 15:41	1
Methylene Chloride	**18**		1.0	0.27	ug/L			02/17/15 15:41	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 15:41	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 15:41	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/17/15 15:41	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 15:41	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 15:41	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/17/15 15:41*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 129*		*02/17/15 15:41*	*1*
4-Bromofluorobenzene (Surr)	*108*		*81 - 130*		*02/17/15 15:41*	*1*
Dibromofluoromethane (Surr)	*102*		*81 - 124*		*02/17/15 15:41*	*1*
Toluene-d8 (Surr)	*106*		*87 - 128*		*02/17/15 15:41*	*1*

Client Sample ID: B30727 — **Lab Sample ID: 160-10498-1**
Date Collected: 02/12/15 12:34 — **Matrix: Water**
Date Received: 02/13/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 14:30	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 14:30	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 14:30	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 14:30	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 14:30	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 14:30	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 14:30	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 14:30	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 14:30	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 14:30	1
Carbon tetrachloride	**1.2**		1.0	0.13	ug/L			02/17/15 14:30	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 14:30	1
Chloroform	**2.1**		1.0	0.10	ug/L			02/17/15 14:30	1
Ethylbenzene	**0.23**	**J**	1.0	0.090	ug/L			02/17/15 14:30	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/17/15 14:30	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 14:30	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 14:30	1
Trichloroethene	**1.5**		1.0	0.25	ug/L			02/17/15 14:30	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 14:30	1
Xylenes, Total	**1.3**	**J**	3.0	0.20	ug/L			02/17/15 14:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*87*	*N*	*ug/L*		*2.84*			*02/17/15 14:30*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B30727 — **Lab Sample ID: 160-10498-1**
Date Collected: 02/12/15 12:34 — **Matrix: Water**
Date Received: 02/13/15 09:20

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	1.0	J	ug/L		12.07	179601-23-1		02/17/15 14:30	1
o-Xylene	0.32	J	ug/L		12.47	95-47-6		02/17/15 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 129		02/17/15 14:30	1
4-Bromofluorobenzene (Surr)	112		81 - 130		02/17/15 14:30	1
Dibromofluoromethane (Surr)	104		81 - 124		02/17/15 14:30	1
Toluene-d8 (Surr)	104		87 - 128		02/17/15 14:30	1

Client Sample ID: B30H89 — **Lab Sample ID: 160-10498-2**
Date Collected: 02/12/15 11:52 — **Matrix: Water**
Date Received: 02/13/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			02/17/15 17:15	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 17:15	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 17:15	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 17:15	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 17:15	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 17:15	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			02/17/15 17:15	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			02/17/15 17:15	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			02/17/15 17:15	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 17:15	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			02/17/15 17:15	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			02/17/15 17:15	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			02/17/15 17:15	1
1-Butanol	12	U	50	12	ug/L			02/17/15 17:15	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 17:15	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			02/17/15 17:15	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 17:15	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 17:15	1
Acetonitrile	2.0	U	10	2.0	ug/L			02/17/15 17:15	1
Acrolein	2.8	U	10	2.8	ug/L			02/17/15 17:15	1
Acrylonitrile	0.58	U	10	0.58	ug/L			02/17/15 17:15	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			02/17/15 17:15	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 17:15	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			02/17/15 17:15	1
Bromoform	0.17	U	1.0	0.17	ug/L			02/17/15 17:15	1
Bromomethane	0.25	U	2.0	0.25	ug/L			02/17/15 17:15	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 17:15	1
Carbon tetrachloride	**210**	**D**	10	1.3	ug/L			02/17/15 14:07	10
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 17:15	1
Chloroethane	0.10	U	2.0	0.10	ug/L			02/17/15 17:15	1
Chloroform	**2.3**		1.0	0.10	ug/L			02/17/15 17:15	1
Chloromethane	0.080	U	2.0	0.080	ug/L			02/17/15 17:15	1
Chloroprene	0.10	U	1.0	0.10	ug/L			02/17/15 17:15	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			02/17/15 17:15	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			02/17/15 17:15	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			02/17/15 17:15	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B30H89 — **Lab Sample ID: 160-10498-2**
Date Collected: 02/12/15 11:52 — **Matrix: Water**
Date Received: 02/13/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	0.21	U	1.0	0.21	ug/L			02/17/15 17:15	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			02/17/15 17:15	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			02/17/15 17:15	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			02/17/15 17:15	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 17:15	1
Iodomethane	0.090	U	2.0	0.090	ug/L			02/17/15 17:15	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			02/17/15 17:15	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			02/17/15 17:15	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			02/17/15 17:15	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/17/15 17:15	1
Styrene	0.070	U	1.0	0.070	ug/L			02/17/15 17:15	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 17:15	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			02/17/15 17:15	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 17:15	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			02/17/15 17:15	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			02/17/15 17:15	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			02/17/15 17:15	1
Trichloroethene	**0.49**	**J**	1.0	0.25	ug/L			02/17/15 17:15	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			02/17/15 17:15	1
Vinyl acetate	0.18	U T O	2.0	0.18	ug/L			02/17/15 17:15	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 17:15	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 17:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*90*	*N*	*ug/L*		*2.84*			*02/17/15 17:15*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*02/17/15 14:07*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 129*		*02/17/15 14:07*	*10*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 129*		*02/17/15 17:15*	*1*
4-Bromofluorobenzene (Surr)	*112*		*81 - 130*		*02/17/15 14:07*	*10*
4-Bromofluorobenzene (Surr)	*106*		*81 - 130*		*02/17/15 17:15*	*1*
Dibromofluoromethane (Surr)	*104*		*81 - 124*		*02/17/15 14:07*	*10*
Dibromofluoromethane (Surr)	*105*		*81 - 124*		*02/17/15 17:15*	*1*
Toluene-d8 (Surr)	*107*		*87 - 128*		*02/17/15 14:07*	*10*
Toluene-d8 (Surr)	*103*		*87 - 128*		*02/17/15 17:15*	*1*

Client Sample ID: B30H65 — **Lab Sample ID: 160-10517-1**
Date Collected: 02/12/15 10:36 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			02/17/15 11:18	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 11:18	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 11:18	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 11:18	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 11:18	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 11:18	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			02/17/15 11:18	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			02/17/15 11:18	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			02/17/15 11:18	1

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B30H65
Date Collected: 02/12/15 10:36
Date Received: 02/14/15 09:15

Lab Sample ID: 160-10517-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 11:18	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			02/17/15 11:18	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			02/17/15 11:18	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			02/17/15 11:18	1
1-Butanol	12	U	50	12	ug/L			02/17/15 11:18	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 11:18	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			02/17/15 11:18	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 11:18	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 11:18	1
Acetonitrile	2.0	U	10	2.0	ug/L			02/17/15 11:18	1
Acrolein	2.8	U	10	2.8	ug/L			02/17/15 11:18	1
Acrylonitrile	0.58	U	10	0.58	ug/L			02/17/15 11:18	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			02/17/15 11:18	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 11:18	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			02/17/15 11:18	1
Bromoform	0.17	U	1.0	0.17	ug/L			02/17/15 11:18	1
Bromomethane	0.25	U	2.0	0.25	ug/L			02/17/15 11:18	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 11:18	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/17/15 11:18	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 11:18	1
Chloroethane	0.10	U	2.0	0.10	ug/L			02/17/15 11:18	1
Chloroform	0.10	U	1.0	0.10	ug/L			02/17/15 11:18	1
Chloromethane	0.080	U	2.0	0.080	ug/L			02/17/15 11:18	1
Chloroprene	0.10	U	1.0	0.10	ug/L			02/17/15 11:18	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			02/17/15 11:18	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			02/17/15 11:18	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			02/17/15 11:18	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			02/17/15 11:18	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			02/17/15 11:18	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			02/17/15 11:18	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			02/17/15 11:18	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 11:18	1
Iodomethane	0.090	U	2.0	0.090	ug/L			02/17/15 11:18	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			02/17/15 11:18	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			02/17/15 11:18	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			02/17/15 11:18	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/17/15 11:18	1
Styrene	0.070	U	1.0	0.070	ug/L			02/17/15 11:18	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 11:18	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			02/17/15 11:18	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 11:18	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			02/17/15 11:18	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			02/17/15 11:18	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			02/17/15 11:18	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/17/15 11:18	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			02/17/15 11:18	1
Vinyl acetate	0.18	U O T	2.0	0.18	ug/L			02/17/15 11:18	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 11:18	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 11:18	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/17/15 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 129		02/17/15 11:18	1
4-Bromofluorobenzene (Surr)	97		81 - 130		02/17/15 11:18	1
Dibromofluoromethane (Surr)	99		81 - 124		02/17/15 11:18	1
Toluene-d8 (Surr)	103		87 - 128		02/17/15 11:18	1

Client Sample ID: B30H75 **Lab Sample ID: 160-10517-2**
Date Collected: 02/12/15 11:27 **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			02/17/15 15:04	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 15:04	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 15:04	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 15:04	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 15:04	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 15:04	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			02/17/15 15:04	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			02/17/15 15:04	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			02/17/15 15:04	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 15:04	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			02/17/15 15:04	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			02/17/15 15:04	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			02/17/15 15:04	1
1-Butanol	12	U	50	12	ug/L			02/17/15 15:04	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 15:04	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			02/17/15 15:04	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 15:04	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 15:04	1
Acetonitrile	2.0	U	10	2.0	ug/L			02/17/15 15:04	1
Acrolein	2.8	U	10	2.8	ug/L			02/17/15 15:04	1
Acrylonitrile	0.58	U	10	0.58	ug/L			02/17/15 15:04	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			02/17/15 15:04	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 15:04	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			02/17/15 15:04	1
Bromoform	0.17	U	1.0	0.17	ug/L			02/17/15 15:04	1
Bromomethane	0.25	U	2.0	0.25	ug/L			02/17/15 15:04	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 15:04	1
Carbon tetrachloride	**88**	**D**	5.0	0.65	ug/L			02/17/15 12:59	5
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 15:04	1
Chloroethane	0.10	U	2.0	0.10	ug/L			02/17/15 15:04	1
Chloroform	**3.8**		1.0	0.10	ug/L			02/17/15 15:04	1
Chloromethane	0.080	U	2.0	0.080	ug/L			02/17/15 15:04	1
Chloroprene	0.10	U	1.0	0.10	ug/L			02/17/15 15:04	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			02/17/15 15:04	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			02/17/15 15:04	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			02/17/15 15:04	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			02/17/15 15:04	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			02/17/15 15:04	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			02/17/15 15:04	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			02/17/15 15:04	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B30H75 — **Lab Sample ID: 160-10517-2**
Date Collected: 02/12/15 11:27 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 15:04	1
Iodomethane	0.090	U	2.0	0.090	ug/L			02/17/15 15:04	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			02/17/15 15:04	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			02/17/15 15:04	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			02/17/15 15:04	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/17/15 15:04	1
Styrene	0.070	U	1.0	0.070	ug/L			02/17/15 15:04	1
Tetrachloroethene	**0.38**	**J**	1.0	0.18	ug/L			02/17/15 15:04	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			02/17/15 15:04	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 15:04	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			02/17/15 15:04	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			02/17/15 15:04	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			02/17/15 15:04	1
Trichloroethene	**0.70**	**J**	1.0	0.25	ug/L			02/17/15 15:04	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			02/17/15 15:04	1
Vinyl acetate	0.18	U O T	2.0	0.18	ug/L			02/17/15 15:04	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 15:04	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 15:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.6*	*N*	*ug/L*		*4.62*			*02/17/15 15:04*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*02/17/15 12:59*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 129*		*02/17/15 12:59*	*5*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 129*		*02/17/15 15:04*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 130*		*02/17/15 12:59*	*5*
4-Bromofluorobenzene (Surr)	*92*		*81 - 130*		*02/17/15 15:04*	*1*
Dibromofluoromethane (Surr)	*101*		*81 - 124*		*02/17/15 12:59*	*5*
Dibromofluoromethane (Surr)	*109*		*81 - 124*		*02/17/15 15:04*	*1*
Toluene-d8 (Surr)	*103*		*87 - 128*		*02/17/15 12:59*	*5*
Toluene-d8 (Surr)	*103*		*87 - 128*		*02/17/15 15:04*	*1*

Client Sample ID: B30H80 — **Lab Sample ID: 160-10517-3**
Date Collected: 02/12/15 10:04 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			02/20/15 17:49	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/20/15 17:49	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			02/20/15 17:49	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/20/15 17:49	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/20/15 17:49	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/20/15 17:49	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			02/20/15 17:49	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			02/20/15 17:49	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			02/20/15 17:49	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/20/15 17:49	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			02/20/15 17:49	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			02/20/15 17:49	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			02/20/15 17:49	1

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B30H80
Date Collected: 02/12/15 10:04
Date Received: 02/14/15 09:15

Lab Sample ID: 160-10517-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol	12	U	50	12	ug/L			02/20/15 17:49	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/20/15 17:49	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			02/20/15 17:49	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/20/15 17:49	1
Acetone	0.34	U	2.0	0.34	ug/L			02/20/15 17:49	1
Acetonitrile	2.0	U	10	2.0	ug/L			02/20/15 17:49	1
Acrolein	2.8	U	10	2.8	ug/L			02/20/15 17:49	1
Acrylonitrile	0.58	U	10	0.58	ug/L			02/20/15 17:49	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			02/20/15 17:49	1
Benzene	0.060	U	1.0	0.060	ug/L			02/20/15 17:49	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			02/20/15 17:49	1
Bromoform	0.17	U	1.0	0.17	ug/L			02/20/15 17:49	1
Bromomethane	0.25	U	2.0	0.25	ug/L			02/20/15 17:49	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/20/15 17:49	1
Carbon tetrachloride	**70**	**D**	5.0	0.65	ug/L			02/17/15 13:24	5
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/20/15 17:49	1
Chloroethane	0.10	U	2.0	0.10	ug/L			02/20/15 17:49	1
Chloroform	**0.90**	**J**	1.0	0.10	ug/L			02/20/15 17:49	1
Chloromethane	0.080	U	2.0	0.080	ug/L			02/20/15 17:49	1
Chloroprene	0.10	U	1.0	0.10	ug/L			02/20/15 17:49	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			02/20/15 17:49	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			02/20/15 17:49	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			02/20/15 17:49	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			02/20/15 17:49	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			02/20/15 17:49	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			02/20/15 17:49	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			02/20/15 17:49	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/20/15 17:49	1
Iodomethane	0.090	U	2.0	0.090	ug/L			02/20/15 17:49	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			02/20/15 17:49	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			02/20/15 17:49	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			02/20/15 17:49	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/20/15 17:49	1
Styrene	0.070	U	1.0	0.070	ug/L			02/20/15 17:49	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/20/15 17:49	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			02/20/15 17:49	1
Toluene	0.070	U	1.0	0.070	ug/L			02/20/15 17:49	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			02/20/15 17:49	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			02/20/15 17:49	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			02/20/15 17:49	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/20/15 17:49	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			02/20/15 17:49	1
Vinyl acetate	0.18	U O	2.0	0.18	ug/L			02/20/15 17:49	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/20/15 17:49	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/20/15 17:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1.6*	*N*	*ug/L*		*4.64*			*02/20/15 17:49*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*02/17/15 13:24*	*5*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 129		02/17/15 13:24	5
1,2-Dichloroethane-d4 (Surr)	98		75 - 129		02/20/15 17:49	1
4-Bromofluorobenzene (Surr)	95		81 - 130		02/17/15 13:24	5
4-Bromofluorobenzene (Surr)	89		81 - 130		02/20/15 17:49	1
Dibromofluoromethane (Surr)	101		81 - 124		02/17/15 13:24	5
Dibromofluoromethane (Surr)	108		81 - 124		02/20/15 17:49	1
Toluene-d8 (Surr)	106		87 - 128		02/17/15 13:24	5
Toluene-d8 (Surr)	101		87 - 128		02/20/15 17:49	1

Client Sample ID: B30HB3 **Lab Sample ID: 160-10517-4**
Date Collected: 02/12/15 09:03 **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			02/20/15 18:14	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/20/15 18:14	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			02/20/15 18:14	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/20/15 18:14	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/20/15 18:14	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/20/15 18:14	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			02/20/15 18:14	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			02/20/15 18:14	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			02/20/15 18:14	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/20/15 18:14	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			02/20/15 18:14	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			02/20/15 18:14	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			02/20/15 18:14	1
1-Butanol	12	U	50	12	ug/L			02/20/15 18:14	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/20/15 18:14	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			02/20/15 18:14	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/20/15 18:14	1
Acetone	0.34	U	2.0	0.34	ug/L			02/20/15 18:14	1
Acetonitrile	2.0	U	10	2.0	ug/L			02/20/15 18:14	1
Acrolein	2.8	U	10	2.8	ug/L			02/20/15 18:14	1
Acrylonitrile	0.58	U	10	0.58	ug/L			02/20/15 18:14	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			02/20/15 18:14	1
Benzene	0.060	U	1.0	0.060	ug/L			02/20/15 18:14	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			02/20/15 18:14	1
Bromoform	0.17	U	1.0	0.17	ug/L			02/20/15 18:14	1
Bromomethane	0.25	U	2.0	0.25	ug/L			02/20/15 18:14	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/20/15 18:14	1
Carbon tetrachloride	**58**	**D**	5.0	0.65	ug/L			02/17/15 13:49	5
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/20/15 18:14	1
Chloroethane	0.10	U	2.0	0.10	ug/L			02/20/15 18:14	1
Chloroform	**1.9**		1.0	0.10	ug/L			02/20/15 18:14	1
Chloromethane	0.080	U	2.0	0.080	ug/L			02/20/15 18:14	1
Chloroprene	0.10	U	1.0	0.10	ug/L			02/20/15 18:14	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			02/20/15 18:14	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			02/20/15 18:14	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			02/20/15 18:14	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			02/20/15 18:14	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			02/20/15 18:14	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			02/20/15 18:14	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B30HB3 — **Lab Sample ID: 160-10517-4**
Date Collected: 02/12/15 09:03 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			02/20/15 18:14	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/20/15 18:14	1
Iodomethane	0.090	U	2.0	0.090	ug/L			02/20/15 18:14	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			02/20/15 18:14	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			02/20/15 18:14	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			02/20/15 18:14	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/20/15 18:14	1
Styrene	0.070	U	1.0	0.070	ug/L			02/20/15 18:14	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/20/15 18:14	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			02/20/15 18:14	1
Toluene	0.070	U	1.0	0.070	ug/L			02/20/15 18:14	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			02/20/15 18:14	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			02/20/15 18:14	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			02/20/15 18:14	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/20/15 18:14	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			02/20/15 18:14	1
Vinyl acetate	0.18	U O	2.0	0.18	ug/L			02/20/15 18:14	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/20/15 18:14	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/20/15 18:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1.7*	*N*	*ug/L*		*4.64*			*02/20/15 18:14*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*02/17/15 13:49*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 129*		*02/17/15 13:49*	*5*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 129*		*02/20/15 18:14*	*1*
4-Bromofluorobenzene (Surr)	*94*		*81 - 130*		*02/17/15 13:49*	*5*
4-Bromofluorobenzene (Surr)	*87*		*81 - 130*		*02/20/15 18:14*	*1*
Dibromofluoromethane (Surr)	*98*		*81 - 124*		*02/17/15 13:49*	*5*
Dibromofluoromethane (Surr)	*102*		*81 - 124*		*02/20/15 18:14*	*1*
Toluene-d8 (Surr)	*101*		*87 - 128*		*02/17/15 13:49*	*5*
Toluene-d8 (Surr)	*101*		*87 - 128*		*02/20/15 18:14*	*1*

Client Sample ID: B30HB8 — **Lab Sample ID: 160-10517-5**
Date Collected: 02/12/15 08:51 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			02/17/15 14:14	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 14:14	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 14:14	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 14:14	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 14:14	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 14:14	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			02/17/15 14:14	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			02/17/15 14:14	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			02/17/15 14:14	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 14:14	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			02/17/15 14:14	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			02/17/15 14:14	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B30HB8 **Lab Sample ID: 160-10517-5**
Date Collected: 02/12/15 08:51 **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			02/17/15 14:14	1
1-Butanol	12	U	50	12	ug/L			02/17/15 14:14	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 14:14	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			02/17/15 14:14	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 14:14	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 14:14	1
Acetonitrile	2.0	U	10	2.0	ug/L			02/17/15 14:14	1
Acrolein	2.8	U	10	2.8	ug/L			02/17/15 14:14	1
Acrylonitrile	0.58	U	10	0.58	ug/L			02/17/15 14:14	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			02/17/15 14:14	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 14:14	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			02/17/15 14:14	1
Bromoform	0.17	U	1.0	0.17	ug/L			02/17/15 14:14	1
Bromomethane	0.25	U	2.0	0.25	ug/L			02/17/15 14:14	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 14:14	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/17/15 14:14	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 14:14	1
Chloroethane	0.10	U	2.0	0.10	ug/L			02/17/15 14:14	1
Chloroform	**0.76**	**J**	1.0	0.10	ug/L			02/17/15 14:14	1
Chloromethane	0.080	U	2.0	0.080	ug/L			02/17/15 14:14	1
Chloroprene	0.10	U	1.0	0.10	ug/L			02/17/15 14:14	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			02/17/15 14:14	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			02/17/15 14:14	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			02/17/15 14:14	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			02/17/15 14:14	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			02/17/15 14:14	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			02/17/15 14:14	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			02/17/15 14:14	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 14:14	1
Iodomethane	0.090	U	2.0	0.090	ug/L			02/17/15 14:14	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			02/17/15 14:14	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			02/17/15 14:14	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			02/17/15 14:14	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/17/15 14:14	1
Styrene	0.070	U	1.0	0.070	ug/L			02/17/15 14:14	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 14:14	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			02/17/15 14:14	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 14:14	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			02/17/15 14:14	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			02/17/15 14:14	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			02/17/15 14:14	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/17/15 14:14	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			02/17/15 14:14	1
Vinyl acetate	0.18	U O T	2.0	0.18	ug/L			02/17/15 14:14	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 14:14	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 14:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/17/15 14:14*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 129		02/17/15 14:14	1
4-Bromofluorobenzene (Surr)	94		81 - 130		02/17/15 14:14	1
Dibromofluoromethane (Surr)	99		81 - 124		02/17/15 14:14	1
Toluene-d8 (Surr)	102		87 - 128		02/17/15 14:14	1

Client Sample ID: B30HM9 — **Lab Sample ID: 160-10517-6**
Date Collected: 02/12/15 08:51 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 14:39	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 14:39	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 14:39	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 14:39	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 14:39	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 14:39	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 14:39	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 14:39	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 14:39	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 14:39	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/17/15 14:39	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 14:39	1
Chloroform	0.10	U	1.0	0.10	ug/L			02/17/15 14:39	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 14:39	1
Methylene Chloride	**18**		1.0	0.27	ug/L			02/17/15 14:39	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 14:39	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 14:39	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/17/15 14:39	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 14:39	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 14:39	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/17/15 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 129		02/17/15 14:39	1
4-Bromofluorobenzene (Surr)	93		81 - 130		02/17/15 14:39	1
Dibromofluoromethane (Surr)	99		81 - 124		02/17/15 14:39	1
Toluene-d8 (Surr)	102		87 - 128		02/17/15 14:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: B30727 — **Lab Sample ID: 160-10498-1**
Date Collected: 02/12/15 12:34 — **Matrix: Water**
Date Received: 02/13/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.95	U	9.5	0.95	ug/L		02/17/15 11:52	02/26/15 18:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				02/17/15 11:52	02/26/15 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	41		10 - 74	02/17/15 11:52	02/26/15 18:56	1
2,4,6-Tribromophenol (Surr)	82		47 - 103	02/17/15 11:52	02/26/15 18:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B30727 — **Lab Sample ID: 160-10498-1**
Date Collected: 02/12/15 12:34 — **Matrix: Water**
Date Received: 02/13/15 09:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	90		31 - 105	02/17/15 11:52	02/26/15 18:56	1
Phenol-d5 (Surr)	25		10 - 50	02/17/15 11:52	02/26/15 18:56	1
Terphenyl-d14 (Surr)	60		68 - 116	02/17/15 11:52	02/26/15 18:56	1
2-Fluorobiphenyl (Surr)	85		30 - 99	02/17/15 11:52	02/26/15 18:56	1

Method: 300.0 - Anions, Ion Chromatography - DL

Client Sample ID: B303H2 — **Lab Sample ID: 160-10462-1**
Date Collected: 02/11/15 11:52 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.25	D	0.20	0.020	mg/L			02/14/15 04:54	2
Nitrate as N	0.40	D	0.040	0.0080	mg/L			02/12/15 21:59	2
Nitrite as N	0.0060	U N	0.040	0.0060	mg/L			02/12/15 21:59	2
Sulfate	13	D	1.0	0.10	mg/L			02/12/15 21:59	2
Chloride	3.9	D	0.40	0.040	mg/L			02/12/15 21:59	2

General Chemistry

Client Sample ID: B303H1 — **Lab Sample ID: 160-10462-2**
Date Collected: 02/11/15 11:52 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.9	U	5.0	2.9	ug/L		02/20/15 09:06	02/25/15 18:03	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			03/04/15 19:21	1

Client Sample ID: B303H7 — **Lab Sample ID: 160-10462-3**
Date Collected: 02/11/15 09:36 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	10.5		5.0	1.8	ug/L		03/03/15 17:00	03/03/15 22:16	1

Client Sample ID: B30H89 — **Lab Sample ID: 160-10498-2**
Date Collected: 02/12/15 11:52 — **Matrix: Water**
Date Received: 02/13/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	344		5.0	3.5	mg/L			02/17/15 09:45	1
Alkalinity	100		5.0	0.54	mg/L			02/17/15 12:35	1
Bicarbonate Alkalinity	100		5.0	0.54	mg/L			02/17/15 12:35	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 12:35	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 12:35	1
Sulfide	2.0	U	10.0	2.0	mg/L		02/20/15 09:11	02/20/15 10:08	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			03/04/15 20:00	1

Client Sample ID: B30H65 — **Lab Sample ID: 160-10517-1**
Date Collected: 02/12/15 10:36 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	244		5.0	3.5	mg/L			02/17/15 09:45	1
Alkalinity	116		5.0	0.54	mg/L			02/17/15 12:35	1

General Chemistry (Continued)

Client Sample ID: B30H65 — **Lab Sample ID: 160-10517-1**
Date Collected: 02/12/15 10:36 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	**116**		5.0	0.54	mg/L			02/17/15 12:35	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 12:35	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 12:35	1
Sulfide	2.0	U	10.0	2.0	mg/L		02/20/15 09:11	02/20/15 10:08	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			03/04/15 20:12	1

Client Sample ID: B30H75 — **Lab Sample ID: 160-10517-2**
Date Collected: 02/12/15 11:27 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**432**		5.0	3.5	mg/L			02/17/15 09:45	1
Alkalinity	**120**		5.0	0.54	mg/L			02/17/15 12:35	1
Bicarbonate Alkalinity	**120**		5.0	0.54	mg/L			02/17/15 12:35	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 12:35	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 12:35	1
Sulfide	2.0	U	10.0	2.0	mg/L		02/20/15 09:11	02/20/15 10:08	1
Total Organic Carbon	**0.74**	**B**	1.0	0.35	mg/L			03/04/15 20:23	1

Client Sample ID: B30H80 — **Lab Sample ID: 160-10517-3**
Date Collected: 02/12/15 10:04 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**356**		5.0	3.5	mg/L			02/17/15 09:45	1
Alkalinity	**98.0**		5.0	0.54	mg/L			02/17/15 13:11	1
Bicarbonate Alkalinity	**98.0**		5.0	0.54	mg/L			02/17/15 13:11	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 13:11	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 13:11	1
Sulfide	2.0	U	10.0	2.0	mg/L		02/20/15 09:11	02/20/15 10:08	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			03/04/15 20:35	1

Client Sample ID: B30HB3 — **Lab Sample ID: 160-10517-4**
Date Collected: 02/12/15 09:03 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**1200**		5.0	3.5	mg/L			02/17/15 09:45	1
Alkalinity	**96.0**		5.0	0.54	mg/L			02/17/15 13:11	1
Bicarbonate Alkalinity	**96.0**		5.0	0.54	mg/L			02/17/15 13:11	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 13:11	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 13:11	1
Sulfide	2.0	U	10.0	2.0	mg/L		02/20/15 09:11	02/20/15 10:08	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			03/04/15 20:47	1

Client Sample ID: B30HB8 — **Lab Sample ID: 160-10517-5**
Date Collected: 02/12/15 08:51 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**419**		5.0	3.5	mg/L			02/17/15 09:45	1
Alkalinity	**98.0**		5.0	0.54	mg/L			02/17/15 13:11	1
Bicarbonate Alkalinity	**98.0**		5.0	0.54	mg/L			02/17/15 13:11	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 13:11	1

General Chemistry (Continued)

Client Sample ID: B30HB8 — **Lab Sample ID: 160-10517-5**
Date Collected: 02/12/15 08:51 — **Matrix: Water**
Date Received: 02/14/15 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 13:11	1
Sulfide	2.0	U	10.0	2.0	mg/L		02/20/15 09:11	02/20/15 10:08	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			03/04/15 21:34	1

Method: C-01-1 - Carbon-14 (EERF C-01-1)

Client Sample ID: B303H7 — **Lab Sample ID: 160-10462-3**
Date Collected: 02/11/15 09:36 — **Matrix: Water**
Date Received: 02/12/15 09:00

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Carbon-14	0.781	U	6.24	6.24	20.0	10.6	pCi/L	02/17/15 08:26	02/26/15 03:00	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-173742/9
Matrix: Water
Analysis Batch: 173742

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/13/15 09:17	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/13/15 09:17	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/13/15 09:17	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/13/15 09:17	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/13/15 09:17	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/13/15 09:17	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/13/15 09:17	1
Acetone	0.34	U	2.0	0.34	ug/L			02/13/15 09:17	1
Benzene	0.060	U	1.0	0.060	ug/L			02/13/15 09:17	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/13/15 09:17	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/13/15 09:17	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/13/15 09:17	1
Chloroform	0.10	U	1.0	0.10	ug/L			02/13/15 09:17	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/13/15 09:17	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/13/15 09:17	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/13/15 09:17	1
Toluene	0.070	U	1.0	0.070	ug/L			02/13/15 09:17	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/13/15 09:17	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/13/15 09:17	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/13/15 09:17	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/13/15 09:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 129*		*02/13/15 09:17*	*1*
4-Bromofluorobenzene (Surr)	*113*		*81 - 130*		*02/13/15 09:17*	*1*
Dibromofluoromethane (Surr)	*105*		*81 - 124*		*02/13/15 09:17*	*1*
Toluene-d8 (Surr)	*107*		*87 - 128*		*02/13/15 09:17*	*1*

Lab Sample ID: LCS 160-173742/6
Matrix: Water
Analysis Batch: 173742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	11.1		ug/L		111	85 - 116
1,1,2-Trichloroethane	10.0	9.20		ug/L		92	80 - 120
1,1-Dichloroethane	10.0	10.2		ug/L		102	80 - 120
1,1-Dichloroethene	10.0	11.1		ug/L		111	80 - 120
1,2-Dichloroethane	10.0	9.19		ug/L		92	80 - 115
2-Butanone (MEK)	10.0	9.68		ug/L		97	67 - 127
4-Methyl-2-pentanone (MIBK)	10.0	8.65		ug/L		87	75 - 126
Acetone	10.0	11.3		ug/L		113	69 - 129
Benzene	10.0	10.2		ug/L		102	80 - 120
Carbon disulfide	10.0	11.3		ug/L		113	80 - 121
Carbon tetrachloride	10.0	11.3		ug/L		113	83 - 125
Chlorobenzene	10.0	10.4		ug/L		104	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-173742/6
Matrix: Water
Analysis Batch: 173742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	10.0	9.21		ug/L		92	80 - 120
Ethylbenzene	10.0	10.9		ug/L		109	80 - 120
Methylene Chloride	10.0	9.47		ug/L		95	80 - 120
Tetrachloroethene	10.0	11.5		ug/L		115	83 - 123
Toluene	10.0	10.7		ug/L		107	80 - 120
Trichloroethene	10.0	10.7		ug/L		107	80 - 120
Vinyl chloride	10.0	11.3		ug/L		113	77 - 122
Xylenes, Total	20.0	21.9		ug/L		110	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 129*
4-Bromofluorobenzene (Surr)	*107*		*81 - 130*
Dibromofluoromethane (Surr)	*103*		*81 - 124*
Toluene-d8 (Surr)	*107*		*87 - 128*

Lab Sample ID: LCSD 160-173742/7
Matrix: Water
Analysis Batch: 173742

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	85 - 116	2	20
1,1,2-Trichloroethane	10.0	9.57		ug/L		96	80 - 120	4	20
1,1-Dichloroethane	10.0	10.2		ug/L		102	80 - 120	0	20
1,1-Dichloroethene	10.0	11.4		ug/L		114	80 - 120	3	20
1,2-Dichloroethane	10.0	9.24		ug/L		92	80 - 115	1	20
2-Butanone (MEK)	10.0	10.8		ug/L		108	67 - 127	11	20
4-Methyl-2-pentanone (MIBK)	10.0	9.55		ug/L		95	75 - 126	10	20
Acetone	10.0	12.5		ug/L		125	69 - 129	10	20
Benzene	10.0	10.5		ug/L		105	80 - 120	3	20
Carbon disulfide	10.0	11.5		ug/L		115	80 - 121	2	20
Carbon tetrachloride	10.0	11.8		ug/L		118	83 - 125	4	20
Chlorobenzene	10.0	10.5		ug/L		105	80 - 120	2	20
Chloroform	10.0	9.76		ug/L		98	80 - 120	6	20
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120	3	20
Methylene Chloride	10.0	9.80		ug/L		98	80 - 120	3	20
Tetrachloroethene	10.0	11.6		ug/L		116	83 - 123	1	20
Toluene	10.0	10.9		ug/L		109	80 - 120	2	20
Trichloroethene	10.0	11.2		ug/L		112	80 - 120	4	20
Vinyl chloride	10.0	11.2		ug/L		112	77 - 122	0	20
Xylenes, Total	20.0	22.5		ug/L		113	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 129*
4-Bromofluorobenzene (Surr)	*106*		*81 - 130*
Dibromofluoromethane (Surr)	*100*		*81 - 124*
Toluene-d8 (Surr)	*103*		*87 - 128*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10424-C-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.070	U	10.0	10.6		ug/L		106	82 - 124
1,1,2-Trichloroethane	0.15	U	10.0	8.83		ug/L		88	80 - 120
1,1-Dichloroethane	0.070	U	10.0	9.75		ug/L		97	80 - 122
1,1-Dichloroethene	0.080	U	10.0	10.7		ug/L		107	80 - 120
1,2-Dichloroethane	0.10	U	10.0	8.64		ug/L		86	80 - 120
2-Butanone (MEK)	0.52	U	10.0	9.28		ug/L		93	53 - 145
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	8.75		ug/L		87	70 - 131
Acetone	0.34	U	10.0	9.16		ug/L		92	50 - 137
Benzene	0.060	U	10.0	9.98		ug/L		100	80 - 120
Carbon disulfide	0.050	U	10.0	10.8		ug/L		108	80 - 121
Carbon tetrachloride	0.13	U	10.0	11.1		ug/L		111	77 - 131
Chlorobenzene	0.15	U	10.0	10.1		ug/L		101	80 - 120
Chloroform	0.78	J	10.0	10.6		ug/L		98	80 - 120
Ethylbenzene	0.090	U	10.0	10.5		ug/L		105	84 - 125
Methylene Chloride	0.27	U	10.0	9.19		ug/L		92	80 - 120
Tetrachloroethene	0.18	U	10.0	10.6		ug/L		106	80 - 126
Toluene	0.070	U	10.0	10.5		ug/L		105	85 - 123
Trichloroethene	0.25	U	10.0	10.4		ug/L		104	81 - 125
Vinyl chloride	0.080	U	10.0	10.6		ug/L		106	70 - 129
Xylenes, Total	0.20	U	20.0	21.8		ug/L		109	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 129*
4-Bromofluorobenzene (Surr)	*106*		*81 - 130*
Dibromofluoromethane (Surr)	*100*		*81 - 124*
Toluene-d8 (Surr)	*105*		*87 - 128*

Lab Sample ID: 160-10424-D-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.070	U	10.0	10.7		ug/L		107	82 - 124	1	20
1,1,2-Trichloroethane	0.15	U	10.0	9.08		ug/L		91	80 - 120	3	20
1,1-Dichloroethane	0.070	U	10.0	10.1		ug/L		101	80 - 122	3	20
1,1-Dichloroethene	0.080	U	10.0	10.8		ug/L		108	80 - 120	1	20
1,2-Dichloroethane	0.10	U	10.0	8.85		ug/L		88	80 - 120	2	20
2-Butanone (MEK)	0.52	U	10.0	10.5		ug/L		105	53 - 145	12	20
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	9.09		ug/L		91	70 - 131	4	20
Acetone	0.34	U	10.0	9.92		ug/L		99	50 - 137	8	20
Benzene	0.060	U	10.0	10.1		ug/L		101	80 - 120	1	20
Carbon disulfide	0.050	U	10.0	11.0		ug/L		110	80 - 121	1	20
Carbon tetrachloride	0.13	U	10.0	11.3		ug/L		113	77 - 131	1	20
Chlorobenzene	0.15	U	10.0	10.2		ug/L		102	80 - 120	1	20
Chloroform	0.78	J	10.0	10.5		ug/L		97	80 - 120	0	20
Ethylbenzene	0.090	U	10.0	10.6		ug/L		106	84 - 125	2	20
Methylene Chloride	0.27	U	10.0	9.46		ug/L		95	80 - 120	3	20
Tetrachloroethene	0.18	U	10.0	11.1		ug/L		111	80 - 126	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10424-D-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.070	U	10.0	10.6		ug/L		106	85 - 123	2	20
Trichloroethene	0.25	U	10.0	10.8		ug/L		108	81 - 125	3	20
Vinyl chloride	0.080	U	10.0	10.7		ug/L		107	70 - 129	1	20
Xylenes, Total	0.20	U	20.0	21.8		ug/L		109	80 - 120	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 129*
4-Bromofluorobenzene (Surr)	*109*		*81 - 130*
Dibromofluoromethane (Surr)	*100*		*81 - 124*
Toluene-d8 (Surr)	*107*		*87 - 128*

Lab Sample ID: MB 160-174373/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			02/17/15 09:20	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 09:20	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 09:20	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 09:20	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 09:20	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 09:20	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			02/17/15 09:20	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			02/17/15 09:20	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			02/17/15 09:20	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 09:20	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			02/17/15 09:20	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			02/17/15 09:20	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			02/17/15 09:20	1
1-Butanol	12	U	50	12	ug/L			02/17/15 09:20	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 09:20	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			02/17/15 09:20	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 09:20	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 09:20	1
Acetonitrile	2.0	U	10	2.0	ug/L			02/17/15 09:20	1
Acrolein	2.8	U	10	2.8	ug/L			02/17/15 09:20	1
Acrylonitrile	0.58	U	10	0.58	ug/L			02/17/15 09:20	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			02/17/15 09:20	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 09:20	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			02/17/15 09:20	1
Bromoform	0.17	U	1.0	0.17	ug/L			02/17/15 09:20	1
Bromomethane	0.25	U	2.0	0.25	ug/L			02/17/15 09:20	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 09:20	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/17/15 09:20	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 09:20	1
Chloroethane	0.10	U	2.0	0.10	ug/L			02/17/15 09:20	1
Chloroform	0.10	U	1.0	0.10	ug/L			02/17/15 09:20	1
Chloromethane	0.080	U	2.0	0.080	ug/L			02/17/15 09:20	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-174373/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroprene	0.10	U	1.0	0.10	ug/L			02/17/15 09:20	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			02/17/15 09:20	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			02/17/15 09:20	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			02/17/15 09:20	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			02/17/15 09:20	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			02/17/15 09:20	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			02/17/15 09:20	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			02/17/15 09:20	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 09:20	1
Iodomethane	0.090	U	2.0	0.090	ug/L			02/17/15 09:20	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			02/17/15 09:20	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			02/17/15 09:20	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			02/17/15 09:20	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/17/15 09:20	1
Styrene	0.070	U	1.0	0.070	ug/L			02/17/15 09:20	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 09:20	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			02/17/15 09:20	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 09:20	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			02/17/15 09:20	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			02/17/15 09:20	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			02/17/15 09:20	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/17/15 09:20	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			02/17/15 09:20	1
Vinyl acetate	0.18	U	2.0	0.18	ug/L			02/17/15 09:20	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 09:20	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 09:20	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Naphthalene	*0.211*	*J*	*ug/L*		*16.37*	*91-20-3*		*02/17/15 09:20*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*02/17/15 09:20*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 129*		*02/17/15 09:20*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 130*		*02/17/15 09:20*	*1*
Dibromofluoromethane (Surr)	*103*		*81 - 124*		*02/17/15 09:20*	*1*
Toluene-d8 (Surr)	*103*		*87 - 128*		*02/17/15 09:20*	*1*

Lab Sample ID: LCS 160-174373/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.4		ug/L		104	80 - 120
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	85 - 116
1,1,2,2-Tetrachloroethane	10.0	9.60		ug/L		96	80 - 120
1,1,2-Trichloroethane	10.0	9.37		ug/L		94	80 - 120
1,1-Dichloroethane	10.0	9.65		ug/L		96	80 - 120

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-174373/6
Matrix: Water
Analysis Batch: 174373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	10.5		ug/L		105	80 - 120
1,2,3-Trichloropropane	10.0	9.80		ug/L		98	77 - 117
1,2-Dibromo-3-Chloropropane	10.0	10.8		ug/L		108	73 - 123
1,2-Dibromoethane (EDB)	10.0	9.62		ug/L		96	80 - 120
1,2-Dichloroethane	10.0	8.81		ug/L		88	80 - 115
1,2-Dichloroethene, Total	20.0	20.9		ug/L		105	80 - 120
1,2-Dichloropropane	10.0	9.63		ug/L		96	80 - 120
1,4-Dichlorobenzene	10.0	9.74		ug/L		97	80 - 120
1-Butanol	250	275		ug/L		110	62 - 128
2-Butanone (MEK)	10.0	10.6		ug/L		106	67 - 127
2-Hexanone	10.0	10.4		ug/L		104	70 - 123
4-Methyl-2-pentanone (MIBK)	10.0	10.3		ug/L		103	75 - 126
Acetone	10.0	12.1		ug/L		121	69 - 129
Acetonitrile	100	113		ug/L		113	67 - 122
Acrolein	50.0	42.8		ug/L		86	58 - 140
Acrylonitrile	100	110		ug/L		110	80 - 122
Allyl chloride	10.0	9.28		ug/L		93	25 - 140
Benzene	10.0	9.88		ug/L		99	80 - 120
Bromodichloromethane	10.0	9.85		ug/L		98	80 - 120
Bromoform	10.0	11.4		ug/L		114	80 - 120
Bromomethane	10.0	9.40		ug/L		94	70 - 124
Carbon disulfide	10.0	10.7		ug/L		107	80 - 121
Carbon tetrachloride	10.0	11.0		ug/L		110	83 - 125
Chlorobenzene	10.0	10.1		ug/L		101	80 - 120
Chloroethane	10.0	9.22		ug/L		92	73 - 119
Chloroform	10.0	9.62		ug/L		96	80 - 120
Chloromethane	10.0	10.9		ug/L		109	72 - 124
Chloroprene	10.0	11.0		ug/L		110	79 - 132
cis-1,2-Dichloroethylene	10.0	10.3		ug/L		103	80 - 120
cis-1,3-Dichloropropene	10.0	10.5		ug/L		105	80 - 120
Dibromochloromethane	10.0	10.6		ug/L		106	80 - 120
Dibromomethane	10.0	9.20		ug/L		92	80 - 120
Dichlorodifluoromethane	10.0	11.0		ug/L		110	24 - 140
Ethyl Cyanide	100	109		ug/L		109	77 - 121
Ethyl methacrylate	10.0	11.2		ug/L		112	69 - 123
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120
Iodomethane	10.0	10.2		ug/L		102	69 - 129
Isobutyl alcohol	250	283		ug/L		113	64 - 124
Methacrylonitrile	100	102		ug/L		102	79 - 126
Methyl methacrylate	20.0	21.9		ug/L		109	70 - 123
Methylene Chloride	10.0	9.14		ug/L		91	80 - 120
Styrene	10.0	11.4		ug/L		114	81 - 133
Tetrachloroethene	10.0	11.0		ug/L		110	83 - 123
Tetrahydrofuran	20.0	21.2		ug/L		106	71 - 124
Toluene	10.0	10.4		ug/L		104	80 - 120
trans-1,2-Dichloroethylene	10.0	10.6		ug/L		106	80 - 120
trans-1,3-Dichloropropene	10.0	10.7		ug/L		107	82 - 124
trans-1,4-Dichloro-2-butene	10.0	9.69		ug/L		97	64 - 137

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-174373/6
Matrix: Water
Analysis Batch: 174373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	10.0	10.5		ug/L		105	80 - 120
Trichloromonofluoromethane	10.0	10.3		ug/L		103	71 - 132
Vinyl acetate	10.0	19.7	O	ug/L		197	63 - 140
Vinyl chloride	10.0	10.4		ug/L		104	77 - 122
Xylenes, Total	20.0	21.7		ug/L		109	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 129*
4-Bromofluorobenzene (Surr)	*103*		*81 - 130*
Dibromofluoromethane (Surr)	*105*		*81 - 124*
Toluene-d8 (Surr)	*107*		*87 - 128*

Lab Sample ID: LCSD 160-174373/7
Matrix: Water
Analysis Batch: 174373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.4		ug/L		104	80 - 120	1	20
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	85 - 116	1	20
1,1,2,2-Tetrachloroethane	10.0	9.15		ug/L		91	80 - 120	5	20
1,1,2-Trichloroethane	10.0	9.28		ug/L		93	80 - 120	1	20
1,1-Dichloroethane	10.0	9.80		ug/L		98	80 - 120	2	20
1,1-Dichloroethene	10.0	10.4		ug/L		104	80 - 120	1	20
1,2,3-Trichloropropane	10.0	9.38		ug/L		94	77 - 117	4	20
1,2-Dibromo-3-Chloropropane	10.0	9.58		ug/L		96	73 - 123	12	20
1,2-Dibromoethane (EDB)	10.0	9.48		ug/L		95	80 - 120	1	20
1,2-Dichloroethane	10.0	8.66		ug/L		87	80 - 115	2	20
1,2-Dichloroethene, Total	20.0	21.0		ug/L		105	80 - 120	0	20
1,2-Dichloropropane	10.0	9.45		ug/L		94	80 - 120	2	20
1,4-Dichlorobenzene	10.0	9.69		ug/L		97	80 - 120	0	20
1-Butanol	250	261		ug/L		104	62 - 128	5	20
2-Butanone (MEK)	10.0	9.87		ug/L		99	67 - 127	7	20
2-Hexanone	10.0	9.59		ug/L		96	70 - 123	8	20
4-Methyl-2-pentanone (MIBK)	10.0	9.13		ug/L		91	75 - 126	12	20
Acetone	10.0	9.48		ug/L		95	69 - 129	25	20
Acetonitrile	100	107		ug/L		107	67 - 122	5	20
Acrolein	50.0	39.6		ug/L		79	58 - 140	8	20
Acrylonitrile	100	105		ug/L		105	80 - 122	4	20
Allyl chloride	10.0	9.16		ug/L		92	25 - 140	1	20
Benzene	10.0	9.72		ug/L		97	80 - 120	2	20
Bromodichloromethane	10.0	9.72		ug/L		97	80 - 120	1	20
Bromoform	10.0	11.0		ug/L		110	80 - 120	4	20
Bromomethane	10.0	9.26		ug/L		93	70 - 124	1	20
Carbon disulfide	10.0	10.8		ug/L		108	80 - 121	1	20
Carbon tetrachloride	10.0	10.9		ug/L		109	83 - 125	1	20
Chlorobenzene	10.0	10.1		ug/L		101	80 - 120	0	20
Chloroethane	10.0	9.24		ug/L		92	73 - 119	0	20
Chloroform	10.0	9.43		ug/L		94	80 - 120	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-174373/7
Matrix: Water
Analysis Batch: 174373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	10.0	10.6		ug/L		106	72 - 124	3	20
Chloroprene	10.0	10.9		ug/L		109	79 - 132	1	20
cis-1,2-Dichloroethylene	10.0	10.4		ug/L		104	80 - 120	1	20
cis-1,3-Dichloropropene	10.0	10.1		ug/L		101	80 - 120	3	20
Dibromochloromethane	10.0	10.2		ug/L		102	80 - 120	3	20
Dibromomethane	10.0	9.16		ug/L		92	80 - 120	0	20
Dichlorodifluoromethane	10.0	10.6		ug/L		106	24 - 140	4	20
Ethyl Cyanide	100	100		ug/L		100	77 - 121	9	20
Ethyl methacrylate	10.0	10.5		ug/L		105	69 - 123	6	20
Ethylbenzene	10.0	10.3		ug/L		103	80 - 120	2	20
Iodomethane	10.0	10.2		ug/L		102	69 - 129	0	20
Isobutyl alcohol	250	256		ug/L		102	64 - 124	10	20
Methacrylonitrile	100	99.4		ug/L		99	79 - 126	2	20
Methyl methacrylate	20.0	21.4		ug/L		107	70 - 123	2	20
Methylene Chloride	10.0	9.26		ug/L		93	80 - 120	1	20
Styrene	10.0	11.2		ug/L		112	81 - 133	2	20
Tetrachloroethene	10.0	10.8		ug/L		108	83 - 123	2	20
Tetrahydrofuran	20.0	19.7		ug/L		98	71 - 124	8	20
Toluene	10.0	10.5		ug/L		105	80 - 120	1	20
trans-1,2-Dichloroethylene	10.0	10.6		ug/L		106	80 - 120	0	20
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	82 - 124	3	20
trans-1,4-Dichloro-2-butene	10.0	9.78		ug/L		98	64 - 137	1	20
Trichloroethene	10.0	10.2		ug/L		102	80 - 120	2	20
Trichloromonofluoromethane	10.0	11.1		ug/L		111	71 - 132	7	20
Vinyl acetate	10.0	19.7	O	ug/L		197	63 - 140	0	20
Vinyl chloride	10.0	10.2		ug/L		102	77 - 122	2	20
Xylenes, Total	20.0	21.7		ug/L		109	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 129*
4-Bromofluorobenzene (Surr)	*103*		*81 - 130*
Dibromofluoromethane (Surr)	*100*		*81 - 124*
Toluene-d8 (Surr)	*103*		*87 - 128*

Lab Sample ID: 160-10462-4 MS
Matrix: Water
Analysis Batch: 174373

Client Sample ID: B306Y8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.090	U	10.0	10.2		ug/L		102	80 - 120
1,1,1-Trichloroethane	0.070	U	10.0	10.3		ug/L		103	82 - 124
1,1,2,2-Tetrachloroethane	0.10	U	10.0	9.43		ug/L		94	75 - 121
1,1,2-Trichloroethane	0.15	U	10.0	9.07		ug/L		91	80 - 120
1,1-Dichloroethane	0.070	U	10.0	9.42		ug/L		94	80 - 122
1,1-Dichloroethene	0.080	U	10.0	10.2		ug/L		102	80 - 120
1,2,3-Trichloropropane	0.15	U	10.0	9.23		ug/L		92	71 - 119
1,2-Dibromo-3-Chloropropane	0.41	U	10.0	9.40		ug/L		94	64 - 130
1,2-Dibromoethane (EDB)	0.13	U	10.0	9.37		ug/L		94	82 - 122

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10462-4 MS **Client Sample ID: B306Y8**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 174373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.10	U	10.0	8.60		ug/L		86	80 - 120
1,2-Dichloroethene, Total	0.15	U	20.0	20.7		ug/L		104	80 - 120
1,2-Dichloropropane	0.10	U	10.0	9.47		ug/L		95	80 - 120
1,4-Dichlorobenzene	0.12	U	10.0	9.50		ug/L		95	80 - 120
1-Butanol	12	U	250	301		ug/L		120	58 - 144
2-Butanone (MEK)	0.52	U	10.0	10.3		ug/L		103	53 - 145
2-Hexanone	0.22	U	10.0	9.78		ug/L		98	59 - 132
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	9.44		ug/L		94	70 - 131
Acetone	0.34	U	10.0	10.3		ug/L		103	50 - 137
Acetonitrile	2.0	U	100	110		ug/L		110	67 - 138
Acrolein	2.8	U	50.0	43.2		ug/L		86	52 - 150
Acrylonitrile	0.58	U	100	110		ug/L		110	73 - 137
Allyl chloride	0.11	U	10.0	9.11		ug/L		91	49 - 150
Benzene	0.060	U	10.0	9.85		ug/L		98	80 - 120
Bromodichloromethane	0.090	U	10.0	9.47		ug/L		95	80 - 120
Bromoform	0.17	U	10.0	10.3		ug/L		103	81 - 121
Bromomethane	0.25	U	10.0	8.89		ug/L		89	55 - 137
Carbon disulfide	0.050	U	10.0	10.3		ug/L		103	80 - 121
Carbon tetrachloride	0.13	U	10.0	10.7		ug/L		107	77 - 131
Chlorobenzene	0.15	U	10.0	10.1		ug/L		101	80 - 120
Chloroethane	0.10	U	10.0	8.91		ug/L		89	71 - 126
Chloroform	0.30	J	10.0	9.77		ug/L		95	80 - 120
Chloromethane	0.080	U	10.0	10.1		ug/L		101	62 - 132
Chloroprene	0.10	U	10.0	10.7		ug/L		107	74 - 137
cis-1,2-Dichloroethylene	0.090	U	10.0	10.2		ug/L		102	80 - 120
cis-1,3-Dichloropropene	0.070	U	10.0	10.2		ug/L		102	83 - 127
Dibromochloromethane	0.13	U	10.0	10.4		ug/L		104	84 - 123
Dibromomethane	0.21	U	10.0	8.66		ug/L		87	78 - 122
Dichlorodifluoromethane	0.080	U	10.0	10.3		ug/L		103	67 - 135
Ethyl Cyanide	1.4	U	100	108		ug/L		108	67 - 141
Ethyl methacrylate	0.11	U	10.0	10.6		ug/L		106	69 - 123
Ethylbenzene	0.090	U	10.0	10.2		ug/L		102	84 - 125
Iodomethane	0.090	U	10.0	9.89		ug/L		99	53 - 141
Isobutyl alcohol	8.7	U	250	294		ug/L		118	59 - 138
Methacrylonitrile	0.50	U	100	101		ug/L		101	70 - 142
Methyl methacrylate	0.26	U	20.0	21.2		ug/L		106	66 - 131
Methylene Chloride	0.27	U	10.0	9.27		ug/L		93	80 - 120
Styrene	0.070	U	10.0	11.1		ug/L		111	77 - 139
Tetrachloroethene	0.18	U	10.0	10.4		ug/L		104	80 - 126
Tetrahydrofuran	1.1	U	20.0	19.9		ug/L		100	65 - 136
Toluene	0.070	U	10.0	10.2		ug/L		102	85 - 123
trans-1,2-Dichloroethylene	0.080	U	10.0	10.5		ug/L		105	80 - 120
trans-1,3-Dichloropropene	0.080	U	10.0	10.2		ug/L		102	83 - 125
trans-1,4-Dichloro-2-butene	0.29	U	10.0	8.82		ug/L		88	56 - 139
Trichloroethene	0.25	U	10.0	10.4		ug/L		104	81 - 125
Trichloromonofluoromethane	0.11	U	10.0	10.4		ug/L		104	69 - 133
Vinyl acetate	0.18	U T O	10.0	20.4	T	ug/L		204	58 - 150
Vinyl chloride	0.080	U	10.0	10.2		ug/L		102	70 - 129

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10462-4 MS — **Client Sample ID: B306Y8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	0.20	U	20.0	21.2		ug/L		106	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 129*
4-Bromofluorobenzene (Surr)	*101*		*81 - 130*
Dibromofluoromethane (Surr)	*97*		*81 - 124*
Toluene-d8 (Surr)	*103*		*87 - 128*

Lab Sample ID: 160-10462-4 MSD — **Client Sample ID: B306Y8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174373

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.090	U	10.0	10.1		ug/L		101	80 - 120	1	20
1,1,1-Trichloroethane	0.070	U	10.0	10.4		ug/L		104	82 - 124	1	20
1,1,2,2-Tetrachloroethane	0.10	U	10.0	8.97		ug/L		90	75 - 121	5	20
1,1,2-Trichloroethane	0.15	U	10.0	8.86		ug/L		89	80 - 120	2	20
1,1-Dichloroethane	0.070	U	10.0	9.67		ug/L		97	80 - 122	3	20
1,1-Dichloroethene	0.080	U	10.0	10.3		ug/L		103	80 - 120	1	20
1,2,3-Trichloropropane	0.15	U	10.0	9.42		ug/L		94	71 - 119	2	20
1,2-Dibromo-3-Chloropropane	0.41	U	10.0	9.14		ug/L		91	64 - 130	3	20
1,2-Dibromoethane (EDB)	0.13	U	10.0	9.20		ug/L		92	82 - 122	2	20
1,2-Dichloroethane	0.10	U	10.0	8.55		ug/L		86	80 - 120	1	20
1,2-Dichloroethene, Total	0.15	U	20.0	20.5		ug/L		103	80 - 120	1	20
1,2-Dichloropropane	0.10	U	10.0	9.52		ug/L		95	80 - 120	1	20
1,4-Dichlorobenzene	0.12	U	10.0	9.56		ug/L		96	80 - 120	1	20
1-Butanol	12	U	250	236		ug/L		94	58 - 144	24	20
2-Butanone (MEK)	0.52	U	10.0	9.71		ug/L		97	53 - 145	6	20
2-Hexanone	0.22	U	10.0	8.93		ug/L		89	59 - 132	9	20
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	8.37		ug/L		84	70 - 131	12	20
Acetone	0.34	U	10.0	8.85		ug/L		89	50 - 137	15	20
Acetonitrile	2.0	U	100	106		ug/L		106	67 - 138	4	20
Acrolein	2.8	U	50.0	41.0		ug/L		82	52 - 150	5	20
Acrylonitrile	0.58	U	100	104		ug/L		104	73 - 137	6	20
Allyl chloride	0.11	U	10.0	9.09		ug/L		91	49 - 150	0	20
Benzene	0.060	U	10.0	10.0		ug/L		100	80 - 120	2	20
Bromodichloromethane	0.090	U	10.0	9.48		ug/L		95	80 - 120	0	20
Bromoform	0.17	U	10.0	10.1		ug/L		101	81 - 121	2	20
Bromomethane	0.25	U	10.0	8.93		ug/L		89	55 - 137	0	20
Carbon disulfide	0.050	U	10.0	10.8		ug/L		108	80 - 121	4	20
Carbon tetrachloride	0.13	U	10.0	11.0		ug/L		110	77 - 131	2	20
Chlorobenzene	0.15	U	10.0	9.97		ug/L		100	80 - 120	1	20
Chloroethane	0.10	U	10.0	8.93		ug/L		89	71 - 126	0	20
Chloroform	0.30	J	10.0	9.64		ug/L		93	80 - 120	1	20
Chloromethane	0.080	U	10.0	10.2		ug/L		102	62 - 132	1	20
Chloroprene	0.10	U	10.0	10.8		ug/L		108	74 - 137	1	20
cis-1,2-Dichloroethylene	0.090	U	10.0	9.94		ug/L		99	80 - 120	3	20
cis-1,3-Dichloropropene	0.070	U	10.0	9.77		ug/L		98	83 - 127	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10462-4 MSD — **Client Sample ID: B306Y8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174373

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane	0.13	U	10.0	9.62		ug/L		96	84 - 123	8	20
Dibromomethane	0.21	U	10.0	8.46		ug/L		85	78 - 122	2	20
Dichlorodifluoromethane	0.080	U	10.0	10.6		ug/L		106	67 - 135	3	20
Ethyl Cyanide	1.4	U	100	99.7		ug/L		100	67 - 141	8	20
Ethyl methacrylate	0.11	U	10.0	10.2		ug/L		102	69 - 123	4	20
Ethylbenzene	0.090	U	10.0	10.3		ug/L		103	84 - 125	1	20
Iodomethane	0.090	U	10.0	9.99		ug/L		100	53 - 141	1	20
Isobutyl alcohol	8.7	U	250	240		ug/L		96	59 - 138	20	20
Methacrylonitrile	0.50	U	100	93.3		ug/L		93	70 - 142	8	20
Methyl methacrylate	0.26	U	20.0	20.6		ug/L		103	66 - 131	3	20
Methylene Chloride	0.27	U	10.0	9.32		ug/L		93	80 - 120	1	20
Styrene	0.070	U	10.0	11.0		ug/L		110	77 - 139	1	20
Tetrachloroethene	0.18	U	10.0	10.7		ug/L		107	80 - 126	2	20
Tetrahydrofuran	1.1	U	20.0	18.2		ug/L		91	65 - 136	9	20
Toluene	0.070	U	10.0	10.4		ug/L		104	85 - 123	2	20
trans-1,2-Dichloroethylene	0.080	U	10.0	10.6		ug/L		106	80 - 120	1	20
trans-1,3-Dichloropropene	0.080	U	10.0	10.2		ug/L		102	83 - 125	0	20
trans-1,4-Dichloro-2-butene	0.29	U	10.0	8.95		ug/L		90	56 - 139	1	20
Trichloroethene	0.25	U	10.0	10.4		ug/L		104	81 - 125	1	20
Trichloromonofluoromethane	0.11	U	10.0	10.8		ug/L		108	69 - 133	3	20
Vinyl acetate	0.18	U T O	10.0	19.0	T	ug/L		190	58 - 150	7	20
Vinyl chloride	0.080	U	10.0	10.2		ug/L		102	70 - 129	0	20
Xylenes, Total	0.20	U	20.0	21.4		ug/L		107	80 - 120	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 129*
4-Bromofluorobenzene (Surr)	*103*		*81 - 130*
Dibromofluoromethane (Surr)	*99*		*81 - 124*
Toluene-d8 (Surr)	*105*		*87 - 128*

Lab Sample ID: MB 160-174387/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			02/17/15 10:52	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 10:52	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 10:52	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/17/15 10:52	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/17/15 10:52	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/17/15 10:52	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			02/17/15 10:52	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			02/17/15 10:52	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			02/17/15 10:52	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/17/15 10:52	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			02/17/15 10:52	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			02/17/15 10:52	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			02/17/15 10:52	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-174387/9
Matrix: Water
Analysis Batch: 174387

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol	12	U	50	12	ug/L			02/17/15 10:52	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/17/15 10:52	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			02/17/15 10:52	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/17/15 10:52	1
Acetone	0.34	U	2.0	0.34	ug/L			02/17/15 10:52	1
Acetonitrile	2.0	U	10	2.0	ug/L			02/17/15 10:52	1
Acrolein	2.8	U	10	2.8	ug/L			02/17/15 10:52	1
Acrylonitrile	0.58	U	10	0.58	ug/L			02/17/15 10:52	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			02/17/15 10:52	1
Benzene	0.060	U	1.0	0.060	ug/L			02/17/15 10:52	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			02/17/15 10:52	1
Bromoform	0.17	U	1.0	0.17	ug/L			02/17/15 10:52	1
Bromomethane	0.25	U	2.0	0.25	ug/L			02/17/15 10:52	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/17/15 10:52	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/17/15 10:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/17/15 10:52	1
Chloroethane	0.10	U	2.0	0.10	ug/L			02/17/15 10:52	1
Chloroform	0.10	U	1.0	0.10	ug/L			02/17/15 10:52	1
Chloromethane	0.080	U	2.0	0.080	ug/L			02/17/15 10:52	1
Chloroprene	0.10	U	1.0	0.10	ug/L			02/17/15 10:52	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			02/17/15 10:52	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			02/17/15 10:52	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			02/17/15 10:52	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			02/17/15 10:52	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			02/17/15 10:52	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			02/17/15 10:52	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			02/17/15 10:52	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/17/15 10:52	1
Iodomethane	0.090	U	2.0	0.090	ug/L			02/17/15 10:52	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			02/17/15 10:52	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			02/17/15 10:52	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			02/17/15 10:52	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/17/15 10:52	1
Styrene	0.070	U	1.0	0.070	ug/L			02/17/15 10:52	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/17/15 10:52	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			02/17/15 10:52	1
Toluene	0.070	U	1.0	0.070	ug/L			02/17/15 10:52	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			02/17/15 10:52	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			02/17/15 10:52	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			02/17/15 10:52	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/17/15 10:52	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			02/17/15 10:52	1
Vinyl acetate	0.18	U	2.0	0.18	ug/L			02/17/15 10:52	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/17/15 10:52	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/17/15 10:52	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/17/15 10:52*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-174387/9
Matrix: Water
Analysis Batch: 174387

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 129		02/17/15 10:52	1
4-Bromofluorobenzene (Surr)	94		81 - 130		02/17/15 10:52	1
Dibromofluoromethane (Surr)	99		81 - 124		02/17/15 10:52	1
Toluene-d8 (Surr)	104		87 - 128		02/17/15 10:52	1

Lab Sample ID: LCS 160-174387/6
Matrix: Water
Analysis Batch: 174387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.4		ug/L		104	80 - 120
1,1,1-Trichloroethane	10.0	9.96		ug/L		100	85 - 116
1,1,2,2-Tetrachloroethane	10.0	9.85		ug/L		99	80 - 120
1,1,2-Trichloroethane	10.0	10.0		ug/L		100	80 - 120
1,1-Dichloroethane	10.0	9.89		ug/L		99	80 - 120
1,1-Dichloroethene	10.0	9.71		ug/L		97	80 - 120
1,2,3-Trichloropropane	10.0	9.42		ug/L		94	77 - 117
1,2-Dibromo-3-Chloropropane	10.0	10.9		ug/L		109	73 - 123
1,2-Dibromoethane (EDB)	10.0	10.2		ug/L		102	80 - 120
1,2-Dichloroethane	10.0	9.79		ug/L		98	80 - 115
1,2-Dichloroethene, Total	20.0	20.2		ug/L		101	80 - 120
1,2-Dichloropropane	10.0	10.4		ug/L		104	80 - 120
1,4-Dichlorobenzene	10.0	9.74		ug/L		97	80 - 120
1-Butanol	250	259		ug/L		104	62 - 128
2-Butanone (MEK)	10.0	11.5		ug/L		115	67 - 127
2-Hexanone	10.0	11.0		ug/L		110	70 - 123
4-Methyl-2-pentanone (MIBK)	10.0	10.2		ug/L		102	75 - 126
Acetone	10.0	10.7		ug/L		107	69 - 129
Acetonitrile	100	106		ug/L		106	67 - 122
Acrolein	50.0	46.8		ug/L		94	58 - 140
Acrylonitrile	100	103		ug/L		103	80 - 122
Allyl chloride	10.0	9.59		ug/L		96	25 - 140
Benzene	10.0	9.92		ug/L		99	80 - 120
Bromodichloromethane	10.0	10.5		ug/L		105	80 - 120
Bromoform	10.0	10.6		ug/L		106	80 - 120
Bromomethane	10.0	8.67		ug/L		87	70 - 124
Carbon disulfide	10.0	10.2		ug/L		102	80 - 121
Carbon tetrachloride	10.0	10.3		ug/L		103	83 - 125
Chlorobenzene	10.0	9.99		ug/L		100	80 - 120
Chloroethane	10.0	10.6		ug/L		106	73 - 119
Chloroform	10.0	10.1		ug/L		101	80 - 120
Chloromethane	10.0	10.1		ug/L		101	72 - 124
Chloroprene	10.0	9.63		ug/L		96	79 - 132
cis-1,2-Dichloroethylene	10.0	10.1		ug/L		101	80 - 120
cis-1,3-Dichloropropene	10.0	10.3		ug/L		103	80 - 120
Dibromochloromethane	10.0	10.7		ug/L		107	80 - 120
Dibromomethane	10.0	9.93		ug/L		99	80 - 120
Dichlorodifluoromethane	10.0	9.95		ug/L		100	24 - 140

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-174387/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethyl Cyanide	100	102		ug/L		102	77 - 121
Ethyl methacrylate	10.0	10.4		ug/L		104	69 - 123
Ethylbenzene	10.0	9.76		ug/L		98	80 - 120
Iodomethane	10.0	8.87		ug/L		89	69 - 129
Isobutyl alcohol	250	280		ug/L		112	64 - 124
Methacrylonitrile	100	105		ug/L		105	79 - 126
Methyl methacrylate	20.0	20.6		ug/L		103	70 - 123
Methylene Chloride	10.0	9.67		ug/L		97	80 - 120
Styrene	10.0	10.2		ug/L		102	81 - 133
Tetrachloroethene	10.0	10.1		ug/L		101	83 - 123
Tetrahydrofuran	20.0	22.0		ug/L		110	71 - 124
Toluene	10.0	9.69		ug/L		97	80 - 120
trans-1,2-Dichloroethylene	10.0	10.1		ug/L		101	80 - 120
trans-1,3-Dichloropropene	10.0	10.4		ug/L		104	82 - 124
trans-1,4-Dichloro-2-butene	10.0	8.80		ug/L		88	64 - 137
Trichloroethene	10.0	9.93		ug/L		99	80 - 120
Trichloromonofluoromethane	10.0	10.6		ug/L		106	71 - 132
Vinyl acetate	10.0	22.2	O	ug/L		222	63 - 140
Vinyl chloride	10.0	10.8		ug/L		108	77 - 122
Xylenes, Total	20.0	20.2		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 129*
4-Bromofluorobenzene (Surr)	*87*		*81 - 130*
Dibromofluoromethane (Surr)	*100*		*81 - 124*
Toluene-d8 (Surr)	*95*		*87 - 128*

Lab Sample ID: LCSD 160-174387/7 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174387

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.4		ug/L		104	80 - 120	0	20
1,1,1-Trichloroethane	10.0	9.83		ug/L		98	85 - 116	1	20
1,1,2,2-Tetrachloroethane	10.0	10.4		ug/L		104	80 - 120	5	20
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	80 - 120	1	20
1,1-Dichloroethane	10.0	9.83		ug/L		98	80 - 120	1	20
1,1-Dichloroethene	10.0	9.65		ug/L		97	80 - 120	1	20
1,2,3-Trichloropropane	10.0	10.1		ug/L		101	77 - 117	7	20
1,2-Dibromo-3-Chloropropane	10.0	11.7		ug/L		117	73 - 123	7	20
1,2-Dibromoethane (EDB)	10.0	10.0		ug/L		100	80 - 120	2	20
1,2-Dichloroethane	10.0	10.0		ug/L		100	80 - 115	3	20
1,2-Dichloroethene, Total	20.0	19.9		ug/L		99	80 - 120	2	20
1,2-Dichloropropane	10.0	10.2		ug/L		102	80 - 120	2	20
1,4-Dichlorobenzene	10.0	9.95		ug/L		99	80 - 120	2	20
1-Butanol	250	288		ug/L		115	62 - 128	10	20
2-Butanone (MEK)	10.0	10.6		ug/L		106	67 - 127	9	20
2-Hexanone	10.0	10.5		ug/L		105	70 - 123	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-174387/7
Matrix: Water
Analysis Batch: 174387

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	10.0	9.96		ug/L		100	75 - 126	2	20
Acetone	10.0	10.3		ug/L		103	69 - 129	4	20
Acetonitrile	100	103		ug/L		103	67 - 122	3	20
Acrolein	50.0	47.9		ug/L		96	58 - 140	2	20
Acrylonitrile	100	103		ug/L		103	80 - 122	1	20
Allyl chloride	10.0	9.62		ug/L		96	25 - 140	0	20
Benzene	10.0	9.91		ug/L		99	80 - 120	0	20
Bromodichloromethane	10.0	10.3		ug/L		103	80 - 120	2	20
Bromoform	10.0	10.8		ug/L		108	80 - 120	1	20
Bromomethane	10.0	9.32		ug/L		93	70 - 124	7	20
Carbon disulfide	10.0	10.1		ug/L		101	80 - 121	1	20
Carbon tetrachloride	10.0	10.2		ug/L		102	83 - 125	1	20
Chlorobenzene	10.0	9.84		ug/L		98	80 - 120	1	20
Chloroethane	10.0	10.6		ug/L		106	73 - 119	0	20
Chloroform	10.0	9.82		ug/L		98	80 - 120	3	20
Chloromethane	10.0	9.98		ug/L		100	72 - 124	1	20
Chloroprene	10.0	9.65		ug/L		96	79 - 132	0	20
cis-1,2-Dichloroethylene	10.0	10.0		ug/L		100	80 - 120	1	20
cis-1,3-Dichloropropene	10.0	10.3		ug/L		103	80 - 120	0	20
Dibromochloromethane	10.0	10.3		ug/L		103	80 - 120	3	20
Dibromomethane	10.0	10.2		ug/L		102	80 - 120	2	20
Dichlorodifluoromethane	10.0	9.73		ug/L		97	24 - 140	2	20
Ethyl Cyanide	100	104		ug/L		104	77 - 121	2	20
Ethyl methacrylate	10.0	10.2		ug/L		102	69 - 123	2	20
Ethylbenzene	10.0	9.66		ug/L		97	80 - 120	1	20
Iodomethane	10.0	9.48		ug/L		95	69 - 129	7	20
Isobutyl alcohol	250	276		ug/L		111	64 - 124	1	20
Methacrylonitrile	100	104		ug/L		104	79 - 126	0	20
Methyl methacrylate	20.0	20.8		ug/L		104	70 - 123	1	20
Methylene Chloride	10.0	9.82		ug/L		98	80 - 120	2	20
Styrene	10.0	10.1		ug/L		101	81 - 133	1	20
Tetrachloroethene	10.0	9.71		ug/L		97	83 - 123	4	20
Tetrahydrofuran	20.0	23.0		ug/L		115	71 - 124	4	20
Toluene	10.0	9.72		ug/L		97	80 - 120	0	20
trans-1,2-Dichloroethylene	10.0	9.87		ug/L		99	80 - 120	2	20
trans-1,3-Dichloropropene	10.0	10.1		ug/L		101	82 - 124	3	20
trans-1,4-Dichloro-2-butene	10.0	8.96		ug/L		90	64 - 137	2	20
Trichloroethene	10.0	9.62		ug/L		96	80 - 120	3	20
Trichloromonofluoromethane	10.0	10.8		ug/L		108	71 - 132	2	20
Vinyl acetate	10.0	22.4	O	ug/L		224	63 - 140	1	20
Vinyl chloride	10.0	10.8		ug/L		108	77 - 122	0	20
Xylenes, Total	20.0	19.6		ug/L		98	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 129*
4-Bromofluorobenzene (Surr)	*91*		*81 - 130*
Dibromofluoromethane (Surr)	*102*		*81 - 124*
Toluene-d8 (Surr)	*94*		*87 - 128*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10517-1 MS **Client Sample ID: B30H65**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 174387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.090	U	10.0	10.3		ug/L		103	80 - 120
1,1,1-Trichloroethane	0.070	U	10.0	9.96		ug/L		100	82 - 124
1,1,2,2-Tetrachloroethane	0.10	U	10.0	10.2		ug/L		102	75 - 121
1,1,2-Trichloroethane	0.15	U	10.0	9.84		ug/L		98	80 - 120
1,1-Dichloroethane	0.070	U	10.0	9.96		ug/L		100	80 - 122
1,1-Dichloroethene	0.080	U	10.0	9.58		ug/L		96	80 - 120
1,2,3-Trichloropropane	0.15	U	10.0	9.59		ug/L		96	71 - 119
1,2-Dibromo-3-Chloropropane	0.41	U	10.0	11.7		ug/L		117	64 - 130
1,2-Dibromoethane (EDB)	0.13	U	10.0	9.88		ug/L		99	82 - 122
1,2-Dichloroethane	0.10	U	10.0	10.5		ug/L		105	80 - 120
1,2-Dichloroethene, Total	0.15	U	20.0	19.9		ug/L		100	80 - 120
1,2-Dichloropropane	0.10	U	10.0	10.6		ug/L		106	80 - 120
1,4-Dichlorobenzene	0.12	U	10.0	9.89		ug/L		99	80 - 120
1-Butanol	12	U	250	289		ug/L		115	58 - 144
2-Butanone (MEK)	0.52	U	10.0	10.8		ug/L		108	53 - 145
2-Hexanone	0.22	U	10.0	10.4		ug/L		104	59 - 132
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	10.3		ug/L		103	70 - 131
Acetone	0.34	U	10.0	9.58		ug/L		96	50 - 137
Acetonitrile	2.0	U	100	108		ug/L		108	67 - 138
Acrolein	2.8	U	50.0	47.1		ug/L		94	52 - 150
Acrylonitrile	0.58	U	100	107		ug/L		107	73 - 137
Allyl chloride	0.11	U	10.0	9.32		ug/L		93	49 - 150
Benzene	0.060	U	10.0	10.2		ug/L		102	80 - 120
Bromodichloromethane	0.090	U	10.0	10.8		ug/L		108	80 - 120
Bromoform	0.17	U	10.0	10.7		ug/L		107	81 - 121
Bromomethane	0.25	U	10.0	8.54		ug/L		85	55 - 137
Carbon disulfide	0.050	U	10.0	9.89		ug/L		99	80 - 121
Carbon tetrachloride	0.13	U	10.0	10.1		ug/L		101	77 - 131
Chlorobenzene	0.15	U	10.0	9.70		ug/L		97	80 - 120
Chloroethane	0.10	U	10.0	10.2		ug/L		102	71 - 126
Chloroform	0.10	U	10.0	10.3		ug/L		103	80 - 120
Chloromethane	0.080	U	10.0	9.71		ug/L		97	62 - 132
Chloroprene	0.10	U	10.0	9.79		ug/L		98	74 - 137
cis-1,2-Dichloroethylene	0.090	U	10.0	10.1		ug/L		101	80 - 120
cis-1,3-Dichloropropene	0.070	U	10.0	10.5		ug/L		105	83 - 127
Dibromochloromethane	0.13	U	10.0	10.5		ug/L		105	84 - 123
Dibromomethane	0.21	U	10.0	10.9		ug/L		109	78 - 122
Dichlorodifluoromethane	0.080	U	10.0	9.15		ug/L		91	67 - 135
Ethyl Cyanide	1.4	U	100	108		ug/L		108	67 - 141
Ethyl methacrylate	0.11	U	10.0	9.89		ug/L		99	69 - 123
Ethylbenzene	0.090	U	10.0	9.52		ug/L		95	84 - 125
Iodomethane	0.090	U	10.0	9.35		ug/L		93	53 - 141
Isobutyl alcohol	8.7	U	250	293		ug/L		117	59 - 138
Methacrylonitrile	0.50	U	100	113		ug/L		113	70 - 142
Methyl methacrylate	0.26	U	20.0	22.0		ug/L		110	66 - 131
Methylene Chloride	0.27	U	10.0	9.86		ug/L		99	80 - 120
Styrene	0.070	U	10.0	9.92		ug/L		99	77 - 139
Tetrachloroethene	0.18	U	10.0	9.52		ug/L		95	80 - 126

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10517-1 MS — **Client Sample ID: B30H65**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	1.1	U	20.0	22.6		ug/L		113	65 - 136
Toluene	0.070	U	10.0	9.45		ug/L		94	85 - 123
trans-1,2-Dichloroethylene	0.080	U	10.0	9.81		ug/L		98	80 - 120
trans-1,3-Dichloropropene	0.080	U	10.0	10.2		ug/L		102	83 - 125
trans-1,4-Dichloro-2-butene	0.29	U	10.0	9.63		ug/L		96	56 - 139
Trichloroethene	0.25	U	10.0	10.1		ug/L		101	81 - 125
Trichloromonofluoromethane	0.11	U	10.0	10.1		ug/L		101	69 - 133
Vinyl acetate	0.18	U O T	10.0	23.6	T	ug/L		236	58 - 150
Vinyl chloride	0.080	U	10.0	10.0		ug/L		100	70 - 129
Xylenes, Total	0.20	U	20.0	19.4		ug/L		97	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 129*
4-Bromofluorobenzene (Surr)	*86*		*81 - 130*
Dibromofluoromethane (Surr)	*101*		*81 - 124*
Toluene-d8 (Surr)	*90*		*87 - 128*

Lab Sample ID: 160-10517-1 MSD — **Client Sample ID: B30H65**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174387

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.090	U	10.0	10.4		ug/L		104	80 - 120	2	20
1,1,1-Trichloroethane	0.070	U	10.0	9.80		ug/L		98	82 - 124	2	20
1,1,2,2-Tetrachloroethane	0.10	U	10.0	10.2		ug/L		102	75 - 121	0	20
1,1,2-Trichloroethane	0.15	U	10.0	10.2		ug/L		102	80 - 120	3	20
1,1-Dichloroethane	0.070	U	10.0	9.85		ug/L		98	80 - 122	1	20
1,1-Dichloroethene	0.080	U	10.0	9.28		ug/L		93	80 - 120	3	20
1,2,3-Trichloropropane	0.15	U	10.0	9.05		ug/L		91	71 - 119	6	20
1,2-Dibromo-3-Chloropropane	0.41	U	10.0	11.4		ug/L		114	64 - 130	3	20
1,2-Dibromoethane (EDB)	0.13	U	10.0	9.91		ug/L		99	82 - 122	0	20
1,2-Dichloroethane	0.10	U	10.0	10.5		ug/L		105	80 - 120	1	20
1,2-Dichloroethene, Total	0.15	U	20.0	19.7		ug/L		99	80 - 120	1	20
1,2-Dichloropropane	0.10	U	10.0	10.2		ug/L		102	80 - 120	3	20
1,4-Dichlorobenzene	0.12	U	10.0	9.95		ug/L		100	80 - 120	1	20
1-Butanol	12	U	250	279		ug/L		112	58 - 144	3	20
2-Butanone (MEK)	0.52	U	10.0	10.1		ug/L		101	53 - 145	7	20
2-Hexanone	0.22	U	10.0	11.0		ug/L		110	59 - 132	6	20
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	10.9		ug/L		109	70 - 131	6	20
Acetone	0.34	U	10.0	9.54		ug/L		95	50 - 137	0	20
Acetonitrile	2.0	U	100	113		ug/L		113	67 - 138	4	20
Acrolein	2.8	U	50.0	48.3		ug/L		97	52 - 150	2	20
Acrylonitrile	0.58	U	100	107		ug/L		107	73 - 137	0	20
Allyl chloride	0.11	U	10.0	9.55		ug/L		96	49 - 150	2	20
Benzene	0.060	U	10.0	10.0		ug/L		100	80 - 120	2	20
Bromodichloromethane	0.090	U	10.0	10.4		ug/L		104	80 - 120	4	20
Bromoform	0.17	U	10.0	10.8		ug/L		108	81 - 121	1	20
Bromomethane	0.25	U	10.0	8.95		ug/L		90	55 - 137	5	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10517-1 MSD — **Client Sample ID: B30H65**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174387

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	0.050	U	10.0	9.90		ug/L		99	80 - 121	0	20
Carbon tetrachloride	0.13	U	10.0	9.95		ug/L		99	77 - 131	2	20
Chlorobenzene	0.15	U	10.0	9.98		ug/L		100	80 - 120	3	20
Chloroethane	0.10	U	10.0	9.78		ug/L		98	71 - 126	4	20
Chloroform	0.10	U	10.0	10.2		ug/L		102	80 - 120	1	20
Chloromethane	0.080	U	10.0	9.42		ug/L		94	62 - 132	3	20
Chloroprene	0.10	U	10.0	9.51		ug/L		95	74 - 137	3	20
cis-1,2-Dichloroethylene	0.090	U	10.0	9.99		ug/L		100	80 - 120	1	20
cis-1,3-Dichloropropene	0.070	U	10.0	10.1		ug/L		101	83 - 127	3	20
Dibromochloromethane	0.13	U	10.0	10.7		ug/L		107	84 - 123	2	20
Dibromomethane	0.21	U	10.0	10.7		ug/L		107	78 - 122	2	20
Dichlorodifluoromethane	0.080	U	10.0	9.24		ug/L		92	67 - 135	1	20
Ethyl Cyanide	1.4	U	100	108		ug/L		108	67 - 141	0	20
Ethyl methacrylate	0.11	U	10.0	10.5		ug/L		105	69 - 123	6	20
Ethylbenzene	0.090	U	10.0	9.78		ug/L		98	84 - 125	3	20
Iodomethane	0.090	U	10.0	9.17		ug/L		92	53 - 141	2	20
Isobutyl alcohol	8.7	U	250	292		ug/L		117	59 - 138	0	20
Methacrylonitrile	0.50	U	100	110		ug/L		110	70 - 142	3	20
Methyl methacrylate	0.26	U	20.0	20.7		ug/L		104	66 - 131	6	20
Methylene Chloride	0.27	U	10.0	9.67		ug/L		97	80 - 120	2	20
Styrene	0.070	U	10.0	10.3		ug/L		103	77 - 139	4	20
Tetrachloroethene	0.18	U	10.0	9.81		ug/L		98	80 - 126	3	20
Tetrahydrofuran	1.1	U	20.0	23.7		ug/L		118	65 - 136	5	20
Toluene	0.070	U	10.0	9.58		ug/L		96	85 - 123	1	20
trans-1,2-Dichloroethylene	0.080	U	10.0	9.71		ug/L		97	80 - 120	1	20
trans-1,3-Dichloropropene	0.080	U	10.0	10.6		ug/L		106	83 - 125	4	20
trans-1,4-Dichloro-2-butene	0.29	U	10.0	8.66		ug/L		87	56 - 139	11	20
Trichloroethene	0.25	U	10.0	9.75		ug/L		98	81 - 125	3	20
Trichloromonofluoromethane	0.11	U	10.0	9.61		ug/L		96	69 - 133	5	20
Vinyl acetate	0.18	U O T	10.0	23.0	T	ug/L		230	58 - 150	2	20
Vinyl chloride	0.080	U	10.0	9.78		ug/L		98	70 - 129	2	20
Xylenes, Total	0.20	U	20.0	20.0		ug/L		100	80 - 120	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 129*
4-Bromofluorobenzene (Surr)	*86*		*81 - 130*
Dibromofluoromethane (Surr)	*104*		*81 - 124*
Toluene-d8 (Surr)	*95*		*87 - 128*

Lab Sample ID: MB 160-174940/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			02/20/15 11:36	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			02/20/15 11:36	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			02/20/15 11:36	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			02/20/15 11:36	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-174940/9
Matrix: Water
Analysis Batch: 174940

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			02/20/15 11:36	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			02/20/15 11:36	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			02/20/15 11:36	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			02/20/15 11:36	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			02/20/15 11:36	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			02/20/15 11:36	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			02/20/15 11:36	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			02/20/15 11:36	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			02/20/15 11:36	1
1-Butanol	12	U	50	12	ug/L			02/20/15 11:36	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			02/20/15 11:36	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			02/20/15 11:36	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			02/20/15 11:36	1
Acetone	0.34	U	2.0	0.34	ug/L			02/20/15 11:36	1
Acetonitrile	2.0	U	10	2.0	ug/L			02/20/15 11:36	1
Acrolein	2.8	U	10	2.8	ug/L			02/20/15 11:36	1
Acrylonitrile	0.58	U	10	0.58	ug/L			02/20/15 11:36	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			02/20/15 11:36	1
Benzene	0.060	U	1.0	0.060	ug/L			02/20/15 11:36	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			02/20/15 11:36	1
Bromoform	0.17	U	1.0	0.17	ug/L			02/20/15 11:36	1
Bromomethane	0.25	U	2.0	0.25	ug/L			02/20/15 11:36	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			02/20/15 11:36	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			02/20/15 11:36	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			02/20/15 11:36	1
Chloroethane	0.10	U	2.0	0.10	ug/L			02/20/15 11:36	1
Chloroform	0.10	U	1.0	0.10	ug/L			02/20/15 11:36	1
Chloromethane	0.080	U	2.0	0.080	ug/L			02/20/15 11:36	1
Chloroprene	0.10	U	1.0	0.10	ug/L			02/20/15 11:36	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			02/20/15 11:36	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			02/20/15 11:36	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			02/20/15 11:36	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			02/20/15 11:36	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			02/20/15 11:36	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			02/20/15 11:36	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			02/20/15 11:36	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			02/20/15 11:36	1
Iodomethane	0.090	U	2.0	0.090	ug/L			02/20/15 11:36	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			02/20/15 11:36	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			02/20/15 11:36	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			02/20/15 11:36	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/20/15 11:36	1
Styrene	0.070	U	1.0	0.070	ug/L			02/20/15 11:36	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			02/20/15 11:36	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			02/20/15 11:36	1
Toluene	0.070	U	1.0	0.070	ug/L			02/20/15 11:36	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			02/20/15 11:36	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			02/20/15 11:36	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-174940/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			02/20/15 11:36	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/20/15 11:36	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			02/20/15 11:36	1
Vinyl acetate	0.18	U	2.0	0.18	ug/L			02/20/15 11:36	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			02/20/15 11:36	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			02/20/15 11:36	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1.95*	*N*	*ug/L*		*4.64*			*02/20/15 11:36*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 129*		*02/20/15 11:36*	*1*
4-Bromofluorobenzene (Surr)	*90*		*81 - 130*		*02/20/15 11:36*	*1*
Dibromofluoromethane (Surr)	*94*		*81 - 124*		*02/20/15 11:36*	*1*
Toluene-d8 (Surr)	*100*		*87 - 128*		*02/20/15 11:36*	*1*

Lab Sample ID: LCS 160-174940/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.2		ug/L		102	80 - 120
1,1,1-Trichloroethane	10.0	9.55		ug/L		96	85 - 116
1,1,2,2-Tetrachloroethane	10.0	9.26		ug/L		93	80 - 120
1,1,2-Trichloroethane	10.0	9.33		ug/L		93	80 - 120
1,1-Dichloroethane	10.0	9.47		ug/L		95	80 - 120
1,1-Dichloroethene	10.0	9.64		ug/L		96	80 - 120
1,2,3-Trichloropropane	10.0	8.74		ug/L		87	77 - 117
1,2-Dibromo-3-Chloropropane	10.0	10.4		ug/L		104	73 - 123
1,2-Dibromoethane (EDB)	10.0	9.18		ug/L		92	80 - 120
1,2-Dichloroethane	10.0	9.26		ug/L		93	80 - 115
1,2-Dichloroethene, Total	20.0	19.2		ug/L		96	80 - 120
1,2-Dichloropropane	10.0	9.61		ug/L		96	80 - 120
1,4-Dichlorobenzene	10.0	9.83		ug/L		98	80 - 120
1-Butanol	250	197		ug/L		79	62 - 128
2-Butanone (MEK)	10.0	9.59		ug/L		96	67 - 127
2-Hexanone	10.0	9.58		ug/L		96	70 - 123
4-Methyl-2-pentanone (MIBK)	10.0	9.29		ug/L		93	75 - 126
Acetone	10.0	10.5		ug/L		105	69 - 129
Acetonitrile	100	89.8		ug/L		90	67 - 122
Acrolein	50.0	41.8		ug/L		84	58 - 140
Acrylonitrile	100	93.5		ug/L		93	80 - 122
Allyl chloride	10.0	9.07		ug/L		91	25 - 140
Benzene	10.0	9.66		ug/L		97	80 - 120
Bromodichloromethane	10.0	9.55		ug/L		96	80 - 120
Bromoform	10.0	10.1		ug/L		101	80 - 120
Bromomethane	10.0	9.20		ug/L		92	70 - 124

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-174940/6
Matrix: Water
Analysis Batch: 174940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	10.0	10.0		ug/L		100	80 - 121
Carbon tetrachloride	10.0	9.80		ug/L		98	83 - 125
Chlorobenzene	10.0	9.88		ug/L		99	80 - 120
Chloroethane	10.0	9.79		ug/L		98	73 - 119
Chloroform	10.0	9.48		ug/L		95	80 - 120
Chloromethane	10.0	9.77		ug/L		98	72 - 124
Chloroprene	10.0	8.90		ug/L		89	79 - 132
cis-1,2-Dichloroethylene	10.0	9.64		ug/L		96	80 - 120
cis-1,3-Dichloropropene	10.0	9.43		ug/L		94	80 - 120
Dibromochloromethane	10.0	10.2		ug/L		102	80 - 120
Dibromomethane	10.0	9.43		ug/L		94	80 - 120
Dichlorodifluoromethane	10.0	9.12		ug/L		91	24 - 140
Ethyl Cyanide	100	94.8		ug/L		95	77 - 121
Ethyl methacrylate	10.0	8.56		ug/L		86	69 - 123
Ethylbenzene	10.0	9.83		ug/L		98	80 - 120
Iodomethane	10.0	10.0		ug/L		100	69 - 129
Isobutyl alcohol	250	225		ug/L		90	64 - 124
Methacrylonitrile	100	92.6		ug/L		93	79 - 126
Methyl methacrylate	20.0	17.5		ug/L		87	70 - 123
Methylene Chloride	10.0	9.19		ug/L		92	80 - 120
Styrene	10.0	9.99		ug/L		100	81 - 133
Tetrachloroethene	10.0	10.3		ug/L		103	83 - 123
Tetrahydrofuran	20.0	19.0		ug/L		95	71 - 124
Toluene	10.0	9.70		ug/L		97	80 - 120
trans-1,2-Dichloroethylene	10.0	9.51		ug/L		95	80 - 120
trans-1,3-Dichloropropene	10.0	9.59		ug/L		96	82 - 124
trans-1,4-Dichloro-2-butene	10.0	8.52		ug/L		85	64 - 137
Trichloroethene	10.0	9.53		ug/L		95	80 - 120
Trichloromonofluoromethane	10.0	9.40		ug/L		94	71 - 132
Vinyl acetate	10.0	20.2	O	ug/L		202	63 - 140
Vinyl chloride	10.0	10.0		ug/L		100	77 - 122
Xylenes, Total	20.0	20.1		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 129*
4-Bromofluorobenzene (Surr)	*85*		*81 - 130*
Dibromofluoromethane (Surr)	*95*		*81 - 124*
Toluene-d8 (Surr)	*97*		*87 - 128*

Lab Sample ID: LCSD 160-174940/7
Matrix: Water
Analysis Batch: 174940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	80 - 120	1	20
1,1,1-Trichloroethane	10.0	9.52		ug/L		95	85 - 116	0	20
1,1,2,2-Tetrachloroethane	10.0	9.24		ug/L		92	80 - 120	0	20
1,1,2-Trichloroethane	10.0	9.24		ug/L		92	80 - 120	1	20

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-174940/7
Matrix: Water
Analysis Batch: 174940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	10.0	9.70		ug/L		97	80 - 120	2	20
1,1-Dichloroethene	10.0	9.50		ug/L		95	80 - 120	1	20
1,2,3-Trichloropropane	10.0	8.75		ug/L		88	77 - 117	0	20
1,2-Dibromo-3-Chloropropane	10.0	10.2		ug/L		102	73 - 123	3	20
1,2-Dibromoethane (EDB)	10.0	9.41		ug/L		94	80 - 120	2	20
1,2-Dichloroethane	10.0	9.67		ug/L		97	80 - 115	4	20
1,2-Dichloroethene, Total	20.0	19.3		ug/L		97	80 - 120	1	20
1,2-Dichloropropane	10.0	9.65		ug/L		96	80 - 120	0	20
1,4-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120	2	20
1-Butanol	250	209		ug/L		83	62 - 128	6	20
2-Butanone (MEK)	10.0	8.96		ug/L		90	67 - 127	7	20
2-Hexanone	10.0	9.51		ug/L		95	70 - 123	1	20
4-Methyl-2-pentanone (MIBK)	10.0	9.14		ug/L		91	75 - 126	2	20
Acetone	10.0	8.79		ug/L		88	69 - 129	18	20
Acetonitrile	100	90.7		ug/L		91	67 - 122	1	20
Acrolein	50.0	41.9		ug/L		84	58 - 140	0	20
Acrylonitrile	100	95.8		ug/L		96	80 - 122	2	20
Allyl chloride	10.0	9.28		ug/L		93	25 - 140	2	20
Benzene	10.0	9.79		ug/L		98	80 - 120	1	20
Bromodichloromethane	10.0	9.58		ug/L		96	80 - 120	0	20
Bromoform	10.0	10.2		ug/L		102	80 - 120	1	20
Bromomethane	10.0	9.01		ug/L		90	70 - 124	2	20
Carbon disulfide	10.0	10.0		ug/L		100	80 - 121	0	20
Carbon tetrachloride	10.0	9.80		ug/L		98	83 - 125	0	20
Chlorobenzene	10.0	9.89		ug/L		99	80 - 120	0	20
Chloroethane	10.0	9.91		ug/L		99	73 - 119	1	20
Chloroform	10.0	9.50		ug/L		95	80 - 120	0	20
Chloromethane	10.0	9.67		ug/L		97	72 - 124	1	20
Chloroprene	10.0	9.18		ug/L		92	79 - 132	3	20
cis-1,2-Dichloroethylene	10.0	9.58		ug/L		96	80 - 120	1	20
cis-1,3-Dichloropropene	10.0	9.59		ug/L		96	80 - 120	2	20
Dibromochloromethane	10.0	9.96		ug/L		100	80 - 120	2	20
Dibromomethane	10.0	9.75		ug/L		97	80 - 120	3	20
Dichlorodifluoromethane	10.0	8.93		ug/L		89	24 - 140	2	20
Ethyl Cyanide	100	92.1		ug/L		92	77 - 121	3	20
Ethyl methacrylate	10.0	8.92		ug/L		89	69 - 123	4	20
Ethylbenzene	10.0	9.83		ug/L		98	80 - 120	0	20
Iodomethane	10.0	10.5		ug/L		105	69 - 129	5	20
Isobutyl alcohol	250	222		ug/L		89	64 - 124	2	20
Methacrylonitrile	100	95.1		ug/L		95	79 - 126	3	20
Methyl methacrylate	20.0	18.2		ug/L		91	70 - 123	4	20
Methylene Chloride	10.0	9.14		ug/L		91	80 - 120	1	20
Styrene	10.0	9.85		ug/L		98	81 - 133	1	20
Tetrachloroethene	10.0	10.2		ug/L		102	83 - 123	1	20
Tetrahydrofuran	20.0	20.4		ug/L		102	71 - 124	7	20
Toluene	10.0	9.73		ug/L		97	80 - 120	0	20
trans-1,2-Dichloroethylene	10.0	9.72		ug/L		97	80 - 120	2	20
trans-1,3-Dichloropropene	10.0	9.58		ug/L		96	82 - 124	0	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-174940/7 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174940

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene	10.0	7.97		ug/L		80	64 - 137	7	20
Trichloroethene	10.0	9.37		ug/L		94	80 - 120	2	20
Trichloromonofluoromethane	10.0	9.74		ug/L		97	71 - 132	4	20
Vinyl acetate	10.0	20.7	O	ug/L		207	63 - 140	2	20
Vinyl chloride	10.0	9.97		ug/L		100	77 - 122	1	20
Xylenes, Total	20.0	20.0		ug/L		100	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 129*
4-Bromofluorobenzene (Surr)	*85*		*81 - 130*
Dibromofluoromethane (Surr)	*97*		*81 - 124*
Toluene-d8 (Surr)	*96*		*87 - 128*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-174432/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176173 — **Prep Batch: 174432**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0	U	10	1.0	ug/L		02/17/15 11:52	02/26/15 16:40	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*02/17/15 11:52*	*02/26/15 16:40*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*40*		*10 - 74*	*02/17/15 11:52*	*02/26/15 16:40*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*47 - 103*	*02/17/15 11:52*	*02/26/15 16:40*	*1*
Nitrobenzene-d5 (Surr)	*77*		*31 - 105*	*02/17/15 11:52*	*02/26/15 16:40*	*1*
Phenol-d5 (Surr)	*25*		*10 - 50*	*02/17/15 11:52*	*02/26/15 16:40*	*1*
Terphenyl-d14 (Surr)	*75*		*68 - 116*	*02/17/15 11:52*	*02/26/15 16:40*	*1*
2-Fluorobiphenyl (Surr)	*73*		*30 - 99*	*02/17/15 11:52*	*02/26/15 16:40*	*1*

Lab Sample ID: LCS 160-174432/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176173 — **Prep Batch: 174432**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	200	169		ug/L		85	55 - 92
Acenaphthylene	200	175		ug/L		88	56 - 93
Anthracene	200	171		ug/L		85	60 - 93
Benzo[a]anthracene	200	169		ug/L		85	72 - 106
Benzo[b]fluoranthene	200	200		ug/L		100	67 - 103
Benzo[k]fluoranthene	200	156		ug/L		78	66 - 107
Benzo[g,h,i]perylene	200	180		ug/L		90	63 - 117
Benzo[a]pyrene	200	185		ug/L		93	62 - 94
Bis(2-chloroethoxy)methane	200	171		ug/L		85	53 - 92

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-174432/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176173 — **Prep Batch: 174432**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethyl)ether	200	172		ug/L		86	48 - 94
Bis(2-ethylhexyl) phthalate	200	179		ug/L		89	58 - 107
4-Bromophenyl phenyl ether	200	173		ug/L		87	62 - 98
Butyl benzyl phthalate	200	186		ug/L		93	57 - 104
Carbazole	200	167		ug/L		84	62 - 95
4-Chloroaniline	200	146	O	ug/L		73	31 - 66
4-Chloro-3-methylphenol	200	154		ug/L		77	56 - 83
2-Chloronaphthalene	200	167		ug/L		83	52 - 92
2-Chlorophenol	200	145		ug/L		72	54 - 81
4-Chlorophenyl phenyl ether	200	169		ug/L		85	58 - 90
Chrysene	200	167		ug/L		83	64 - 94
Dibenz(a,h)anthracene	200	200		ug/L		100	66 - 110
Dibenzofuran	200	165		ug/L		82	56 - 87
Di-n-butyl phthalate	200	178		ug/L		89	60 - 97
1,2-Dichlorobenzene	200	161		ug/L		81	49 - 89
1,3-Dichlorobenzene	200	158		ug/L		79	45 - 88
1,4-Dichlorobenzene	200	160		ug/L		80	46 - 88
3,3'-Dichlorobenzidine	200	172	O	ug/L		86	43 - 80
2,4-Dichlorophenol	200	159		ug/L		79	59 - 81
Diethyl phthalate	200	171		ug/L		85	60 - 91
2,4-Dimethylphenol	200	150		ug/L		75	48 - 96
Dimethyl phthalate	200	174		ug/L		87	62 - 91
4,6-Dinitro-2-methylphenol	200	190		ug/L		95	60 - 98
2,4-Dinitrophenol	200	142		ug/L		71	38 - 95
2,4-Dinitrotoluene	200	174		ug/L		87	62 - 94
2,6-Dinitrotoluene	200	175		ug/L		87	61 - 94
Di-n-octyl phthalate	200	204		ug/L		102	61 - 103
Fluoranthene	200	171		ug/L		85	63 - 93
Fluorene	200	174		ug/L		87	60 - 89
Hexachlorobenzene	200	170		ug/L		85	63 - 97
Hexachlorobutadiene	200	156		ug/L		78	45 - 93
Hexachlorocyclopentadiene	200	172		ug/L		86	22 - 93
Hexachloroethane	200	161		ug/L		80	41 - 96
Indeno[1,2,3-cd]pyrene	200	222		ug/L		111	64 - 112
Isophorone	200	171		ug/L		86	48 - 87
2-Methylnaphthalene	200	167		ug/L		83	53 - 86
2-Methylphenol	200	124		ug/L		62	47 - 75
3 & 4 Methylphenol	200	125		ug/L		63	40 - 79
Naphthalene	200	164		ug/L		82	52 - 88
2-Nitroaniline	200	184		ug/L		92	53 - 98
3-Nitroaniline	200	160		ug/L		80	41 - 84
4-Nitroaniline	200	172		ug/L		86	55 - 87
Nitrobenzene	200	175		ug/L		87	48 - 97
2-Nitrophenol	200	174		ug/L		87	59 - 88
4-Nitrophenol	200	56.2		ug/L		28	21 - 36
N-Nitrosodiphenylamine	200	196		ug/L		98	69 - 127
N-Nitrosodi-n-propylamine	200	182		ug/L		91	51 - 102
2,2'-oxybis[1-chloropropane]	200	168		ug/L		84	36 - 103

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-174432/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176173 — **Prep Batch: 174432**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	200	169		ug/L		85	47 - 96
Phenanthrene	200	170		ug/L		85	60 - 93
Phenol	200	52.7		ug/L		26	21 - 37
Pyrene	200	169		ug/L		85	58 - 102
1,2,4-Trichlorobenzene	200	159		ug/L		80	50 - 90
2,4,5-Trichlorophenol	200	170		ug/L		85	60 - 86
2,4,6-Trichlorophenol	200	169		ug/L		85	61 - 86

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*43*		*10 - 74*
2,4,6-Tribromophenol (Surr)	*87*		*47 - 103*
Nitrobenzene-d5 (Surr)	*87*		*31 - 105*
Phenol-d5 (Surr)	*27*		*10 - 50*
Terphenyl-d14 (Surr)	*85*		*68 - 116*
2-Fluorobiphenyl (Surr)	*85*		*30 - 99*

Lab Sample ID: 160-10498-1 MS — **Client Sample ID: B30727**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176173 — **Prep Batch: 174432**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.95	U	188	148		ug/L		79	50 - 96
Acenaphthylene	0.95	U	188	155		ug/L		82	51 - 96
Anthracene	0.95	U	188	146		ug/L		78	55 - 97
Benzo[a]anthracene	0.95	U	188	135		ug/L		72	59 - 118
Benzo[b]fluoranthene	0.95	U	188	154		ug/L		82	55 - 112
Benzo[k]fluoranthene	0.95	U	188	123		ug/L		66	52 - 115
Benzo[g,h,i]perylene	0.95	U	188	138		ug/L		73	55 - 112
Benzo[a]pyrene	0.95	U	188	144		ug/L		77	55 - 101
Bis(2-chloroethoxy)methane	0.95	U	188	152		ug/L		81	45 - 95
Bis(2-chloroethyl)ether	0.95	U	188	152		ug/L		81	46 - 96
Bis(2-ethylhexyl) phthalate	1.8	U	188	143		ug/L		76	45 - 119
4-Bromophenyl phenyl ether	0.95	U	188	146		ug/L		78	51 - 107
Butyl benzyl phthalate	0.95	U	188	154		ug/L		82	46 - 117
Carbazole	0.95	U	188	149		ug/L		79	54 - 100
4-Chloroaniline	1.9	U O	188	123		ug/L		65	17 - 79
4-Chloro-3-methylphenol	0.95	U	188	132		ug/L		70	40 - 99
2-Chloronaphthalene	0.95	U	188	148		ug/L		79	47 - 94
2-Chlorophenol	0.95	U	188	127		ug/L		68	45 - 94
4-Chlorophenyl phenyl ether	0.95	U	188	143		ug/L		76	50 - 95
Chrysene	0.95	U	188	132		ug/L		70	53 - 103
Dibenz(a,h)anthracene	0.95	U	188	153		ug/L		81	59 - 107
Dibenzofuran	0.95	U	188	144		ug/L		76	51 - 90
Di-n-butyl phthalate	0.95	U	188	153		ug/L		81	51 - 104
1,2-Dichlorobenzene	0.95	U	188	145		ug/L		77	45 - 91
1,3-Dichlorobenzene	0.95	U	188	145		ug/L		77	45 - 85
1,4-Dichlorobenzene	0.95	U	188	146		ug/L		78	47 - 86
3,3'-Dichlorobenzidine	1.2	U O T	188	152		ug/L		81	37 - 87

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10498-1 MS | **Client Sample ID: B30727**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 176173 | **Prep Batch: 174432**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	0.95	U	188	138		ug/L		73	48 - 92
Diethyl phthalate	0.95	U	188	150		ug/L		80	48 - 100
2,4-Dimethylphenol	0.95	U	188	128		ug/L		68	44 - 92
Dimethyl phthalate	0.95	U	188	152		ug/L		81	42 - 106
4,6-Dinitro-2-methylphenol	1.2	U	188	164		ug/L		87	55 - 109
2,4-Dinitrophenol	1.9	U	188	116		ug/L		62	40 - 96
2,4-Dinitrotoluene	0.95	U	188	151		ug/L		81	48 - 105
2,6-Dinitrotoluene	2.0	U	188	153		ug/L		82	45 - 106
Di-n-octyl phthalate	0.95	U	188	163		ug/L		87	51 - 113
Fluoranthene	0.95	U	188	141		ug/L		75	55 - 97
Fluorene	0.95	U	188	151		ug/L		80	54 - 95
Hexachlorobenzene	0.95	U	188	138		ug/L		73	54 - 103
Hexachlorobutadiene	0.95	U	188	136		ug/L		72	48 - 83
Hexachlorocyclopentadiene	0.95	U	188	149		ug/L		79	22 - 93
Hexachloroethane	0.95	U	188	149		ug/L		79	41 - 92
Indeno[1,2,3-cd]pyrene	0.95	U	188	167		ug/L		89	62 - 111
Isophorone	0.95	U	188	152		ug/L		81	40 - 92
2-Methylnaphthalene	0.95	U	188	147		ug/L		78	50 - 87
2-Methylphenol	0.95	U	188	105		ug/L		56	33 - 95
3 & 4 Methylphenol	1.9	U	188	103		ug/L		55	26 - 113
Naphthalene	0.95	U	188	146		ug/L		78	50 - 88
2-Nitroaniline	1.0	U	188	165		ug/L		88	36 - 110
3-Nitroaniline	0.95	U	188	138		ug/L		73	26 - 102
4-Nitroaniline	0.95	U	188	149		ug/L		80	41 - 103
Nitrobenzene	0.95	U	188	158		ug/L		84	41 - 97
2-Nitrophenol	1.4	U	188	153		ug/L		81	49 - 96
4-Nitrophenol	1.9	U	188	46.3		ug/L		25	10 - 76
N-Nitrosodiphenylamine	0.95	U	188	172		ug/L		92	63 - 135
N-Nitrosodi-n-propylamine	1.4	U	188	163		ug/L		87	40 - 109
2,2'-oxybis[1-chloropropane]	0.95	U	188	154		ug/L		82	28 - 103
Pentachlorophenol	1.2	U	188	144		ug/L		77	49 - 92
Phenanthrene	0.95	U	188	148		ug/L		79	52 - 99
Phenol	1.9	U	188	41.3		ug/L		22	10 - 70
Pyrene	0.95	U	188	139		ug/L		74	48 - 116
1,2,4-Trichlorobenzene	0.95	U	188	142		ug/L		75	52 - 84
2,4,5-Trichlorophenol	0.95	U	188	147		ug/L		79	48 - 97
2,4,6-Trichlorophenol	0.95	U	188	147		ug/L		78	48 - 95

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*38*		*10 - 74*
2,4,6-Tribromophenol (Surr)	*80*		*47 - 103*
Nitrobenzene-d5 (Surr)	*84*		*31 - 105*
Phenol-d5 (Surr)	*23*		*10 - 50*
Terphenyl-d14 (Surr)	*68*		*68 - 116*
2-Fluorobiphenyl (Surr)	*80*		*30 - 99*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10498-1 MSD — **Client Sample ID: B30727**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176173 — **Prep Batch: 174432**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.95	U	189	160		ug/L		85	50 - 96	8	20
Acenaphthylene	0.95	U	189	166		ug/L		87	51 - 96	7	20
Anthracene	0.95	U	189	158		ug/L		84	55 - 97	8	20
Benzo[a]anthracene	0.95	U	189	148		ug/L		78	59 - 118	9	20
Benzo[b]fluoranthene	0.95	U	189	167		ug/L		88	55 - 112	8	20
Benzo[k]fluoranthene	0.95	U	189	139		ug/L		73	52 - 115	12	20
Benzo[g,h,i]perylene	0.95	U	189	153		ug/L		81	55 - 112	10	20
Benzo[a]pyrene	0.95	U	189	160		ug/L		84	55 - 101	10	20
Bis(2-chloroethoxy)methane	0.95	U	189	161		ug/L		85	45 - 95	6	20
Bis(2-chloroethyl)ether	0.95	U	189	160		ug/L		84	46 - 96	5	20
Bis(2-ethylhexyl) phthalate	1.8	U	189	154		ug/L		81	45 - 119	7	20
4-Bromophenyl phenyl ether	0.95	U	189	160		ug/L		85	51 - 107	9	20
Butyl benzyl phthalate	0.95	U	189	166		ug/L		88	46 - 117	8	20
Carbazole	0.95	U	189	160		ug/L		84	54 - 100	7	20
4-Chloroaniline	1.9	U O	189	140		ug/L		74	17 - 79	13	20
4-Chloro-3-methylphenol	0.95	U	189	142		ug/L		75	40 - 99	7	20
2-Chloronaphthalene	0.95	U	189	160		ug/L		84	47 - 94	8	20
2-Chlorophenol	0.95	U	189	135		ug/L		71	45 - 94	6	20
4-Chlorophenyl phenyl ether	0.95	U	189	156		ug/L		82	50 - 95	9	20
Chrysene	0.95	U	189	148		ug/L		78	53 - 103	11	20
Dibenz(a,h)anthracene	0.95	U	189	170		ug/L		90	59 - 107	11	20
Dibenzofuran	0.95	U	189	156		ug/L		82	51 - 90	8	20
Di-n-butyl phthalate	0.95	U	189	164		ug/L		86	51 - 104	7	20
1,2-Dichlorobenzene	0.95	U	189	154		ug/L		81	45 - 91	6	20
1,3-Dichlorobenzene	0.95	U	189	153		ug/L		81	45 - 85	5	20
1,4-Dichlorobenzene	0.95	U	189	154		ug/L		82	47 - 86	5	20
3,3'-Dichlorobenzidine	1.2	U O T	189	167	T	ug/L		88	37 - 87	10	20
2,4-Dichlorophenol	0.95	U	189	149		ug/L		79	48 - 92	8	20
Diethyl phthalate	0.95	U	189	161		ug/L		85	48 - 100	7	20
2,4-Dimethylphenol	0.95	U	189	137		ug/L		72	44 - 92	7	20
Dimethyl phthalate	0.95	U	189	164		ug/L		87	42 - 106	8	20
4,6-Dinitro-2-methylphenol	1.2	U	189	177		ug/L		93	55 - 109	8	20
2,4-Dinitrophenol	1.9	U	189	83.8		ug/L		44	40 - 96	32	20
2,4-Dinitrotoluene	0.95	U	189	163		ug/L		86	48 - 105	8	20
2,6-Dinitrotoluene	2.0	U	189	168		ug/L		89	45 - 106	9	20
Di-n-octyl phthalate	0.95	U	189	176		ug/L		93	51 - 113	8	20
Fluoranthene	0.95	U	189	154		ug/L		81	55 - 97	9	20
Fluorene	0.95	U	189	163		ug/L		86	54 - 95	8	20
Hexachlorobenzene	0.95	U	189	153		ug/L		81	54 - 103	11	20
Hexachlorobutadiene	0.95	U	189	150		ug/L		79	48 - 83	10	20
Hexachlorocyclopentadiene	0.95	U	189	166		ug/L		88	22 - 93	11	20
Hexachloroethane	0.95	U	189	157		ug/L		83	41 - 92	5	20
Indeno[1,2,3-cd]pyrene	0.95	U	189	179		ug/L		94	62 - 111	7	20
Isophorone	0.95	U	189	161		ug/L		85	40 - 92	5	20
2-Methylnaphthalene	0.95	U	189	157		ug/L		83	50 - 87	7	20
2-Methylphenol	0.95	U	189	111		ug/L		58	33 - 95	6	20
3 & 4 Methylphenol	1.9	U	189	109		ug/L		57	26 - 113	6	20
Naphthalene	0.95	U	189	156		ug/L		82	50 - 88	6	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10498-1 MSD — **Client Sample ID: B30727**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176173 — **Prep Batch: 174432**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitroaniline	1.0	U	189	177		ug/L		93	36 - 110	7	20
3-Nitroaniline	0.95	U	189	152		ug/L		80	26 - 102	10	20
4-Nitroaniline	0.95	U	189	163		ug/L		86	41 - 103	9	20
Nitrobenzene	0.95	U	189	166		ug/L		88	41 - 97	5	20
2-Nitrophenol	1.4	U	189	165		ug/L		87	49 - 96	8	20
4-Nitrophenol	1.9	U	189	49.7		ug/L		26	10 - 76	7	20
N-Nitrosodiphenylamine	0.95	U	189	187		ug/L		99	63 - 135	9	20
N-Nitrosodi-n-propylamine	1.4	U	189	171		ug/L		90	40 - 109	4	20
2,2'-oxybis[1-chloropropane]	0.95	U	189	159		ug/L		84	28 - 103	3	20
Pentachlorophenol	1.2	U	189	159		ug/L		84	49 - 92	10	20
Phenanthrene	0.95	U	189	159		ug/L		84	52 - 99	8	20
Phenol	1.9	U	189	43.8		ug/L		23	10 - 70	6	20
Pyrene	0.95	U	189	154		ug/L		81	48 - 116	10	20
1,2,4-Trichlorobenzene	0.95	U	189	154		ug/L		81	52 - 84	8	20
2,4,5-Trichlorophenol	0.95	U	189	160		ug/L		85	48 - 97	8	20
2,4,6-Trichlorophenol	0.95	U	189	159		ug/L		84	48 - 95	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*39*		*10 - 74*
2,4,6-Tribromophenol (Surr)	*87*		*47 - 103*
Nitrobenzene-d5 (Surr)	*89*		*31 - 105*
Phenol-d5 (Surr)	*24*		*10 - 50*
Terphenyl-d14 (Surr)	*75*		*68 - 116*
2-Fluorobiphenyl (Surr)	*86*		*30 - 99*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-173735/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.050	U	0.50	0.050	mg/L			02/12/15 21:26	1
Chloride	0.0416	B	0.20	0.020	mg/L			02/12/15 21:26	1

Lab Sample ID: LCS 160-173735/10 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	8.00	7.81		mg/L		98	90 - 110
Chloride	2.00	1.96		mg/L		98	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 160-173736/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173736

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			02/12/15 21:26	1
Nitrite as N	0.0030	U	0.020	0.0030	mg/L			02/12/15 21:26	1

Lab Sample ID: LCS 160-173736/10 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.424		mg/L		106	90 - 110
Nitrite as N	0.160	0.160		mg/L		100	90 - 110

Lab Sample ID: MB 160-173842/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.010	U	0.10	0.010	mg/L			02/13/15 19:53	1

Lab Sample ID: LCS 160-173842/10 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.00	0.969		mg/L		97	90 - 110

Lab Sample ID: 160-10462-1 MS — **Client Sample ID: B303H2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.25	D	4.00	4.31	D	mg/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-10462-1 MS — **Client Sample ID: B303H2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	13	D	8.00	20.9	D	mg/L		98	90 - 110
Chloride - DL	3.9	D	4.00	7.61	D	mg/L		92	90 - 110

Lab Sample ID: 160-10462-1 DU — **Client Sample ID: B303H2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173735

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate - DL	13	D	13.1	D	mg/L		0.05	20
Chloride - DL	3.9	D	3.94	D	mg/L		0.5	20

Method: 300.0 - Anions, Ion Chromatography - DL (Continued)

Lab Sample ID: 160-10462-1 MS — **Client Sample ID: B303H2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173736

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N - DL	0.40	D	0.800	1.22	D	mg/L		101	90 - 110		
Nitrite as N - DL	0.0060	U N	0.200	0.177	D N	mg/L		89	90 - 110		

Lab Sample ID: 160-10462-1 DU — **Client Sample ID: B303H2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173736

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N - DL	0.40	D		0.387	D	mg/L				5	20
Nitrite as N - DL	0.0060	U N		0.0060	U	mg/L				NC	20

Lab Sample ID: 160-10462-1 DU — **Client Sample ID: B303H2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173842

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride - DL	0.25	D		0.280	D	mg/L				11	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 160-174402/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	3.5	U	5.0	3.5	mg/L			02/17/15 09:45	1

Lab Sample ID: LCS 160-174402/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174402

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids (TDS)			500	512.0		mg/L		102	90 - 110		

Lab Sample ID: 160-10445-G-2 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174402

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids (TDS)	765			755.0		mg/L				1	20

Lab Sample ID: 160-10517-5 DU — **Client Sample ID: B30HB8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174402

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids (TDS)	419			482.0		mg/L				14	20

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-174441/21 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2.00	B	5.0	0.54	mg/L			02/17/15 12:35	1
Bicarbonate Alkalinity	2.00	B	5.0	0.54	mg/L			02/17/15 12:35	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 12:35	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 12:35	1

Lab Sample ID: MB 160-174441/41 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	3.00	B	5.0	0.54	mg/L			02/17/15 13:11	1
Bicarbonate Alkalinity	3.00	B	5.0	0.54	mg/L			02/17/15 13:11	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 13:11	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			02/17/15 13:11	1

Lab Sample ID: HLCS 160-174441/23 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174441

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	400	383.0		mg/L		96	90 - 110
Bicarbonate Alkalinity	400	383.0		mg/L		96	90 - 110

Lab Sample ID: HLCS 160-174441/43 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174441

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	400	380.0		mg/L		95	90 - 110
Bicarbonate Alkalinity	400	380.0		mg/L		95	90 - 110

Lab Sample ID: LCS 160-174441/22 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	200	192.0		mg/L		96	90 - 110
Bicarbonate Alkalinity	200	192.0		mg/L		96	90 - 110

Lab Sample ID: LCS 160-174441/42 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	200	212.0		mg/L		106	90 - 110
Bicarbonate Alkalinity	200	212.0		mg/L		106	90 - 110

Method: 310.1 - Alkalinity (Continued)

Lab Sample ID: 160-10424-A-5 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity	124		100	214.0		mg/L		90	80 - 120		
Bicarbonate Alkalinity	124		100	214.0		mg/L		90	80 - 120		

Lab Sample ID: 160-10517-3 MS — **Client Sample ID: B30H80**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity	98.0		100	196.0		mg/L		98	80 - 120		
Bicarbonate Alkalinity	98.0		100	196.0		mg/L		98	80 - 120		

Lab Sample ID: 160-10424-A-5 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174441

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	124			124.0		mg/L				0	20
Bicarbonate Alkalinity	124			124.0		mg/L				0	20
Carbonate Alkalinity	0.54	U		0.54	U	mg/L				NC	20
Hydroxide Alkalinity	0.54	U		0.54	U	mg/L				NC	20

Lab Sample ID: 160-10517-3 DU — **Client Sample ID: B30H80**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174441

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	98.0			98.00		mg/L				0	20
Bicarbonate Alkalinity	98.0			98.00		mg/L				0	20
Carbonate Alkalinity	0.54	U		0.54	U	mg/L				NC	20
Hydroxide Alkalinity	0.54	U		0.54	U	mg/L				NC	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 160-174936/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176170 — **Prep Batch: 174936**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.9	U	5.0	2.9	ug/L		02/20/15 09:06	02/25/15 17:53	1

Lab Sample ID: HLCS 160-174936/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176170 — **Prep Batch: 174936**

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			400	389.3		ug/L		97	85 - 115		

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 160-174936/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176170 — **Prep Batch: 174936**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			200	205.6		ug/L		103	85 - 115		

Lab Sample ID: 160-10462-2 MS — **Client Sample ID: B303H1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176170 — **Prep Batch: 174936**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	2.9	U	200	199.7		ug/L		100	66 - 120		

Lab Sample ID: 160-10462-2 DU — **Client Sample ID: B303H1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176170 — **Prep Batch: 174936**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	2.9	U		2.9	U	ug/L				NC	20

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 160-177404/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 177405 — **Prep Batch: 177404**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	1.8	U	5.0	1.8	ug/L		03/03/15 12:00	03/03/15 15:17	1

Lab Sample ID: LCS 160-177404/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 177405 — **Prep Batch: 177404**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Halogens, Total Organic			100	99.62		ug/L		100	90 - 116		

Lab Sample ID: 160-10367-B-7-C MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 177405 — **Prep Batch: 177404**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Halogens, Total Organic	72.1		100	164.8		ug/L		93	85 - 117		

Lab Sample ID: 160-10367-B-7-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 177405 — **Prep Batch: 177404**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Halogens, Total Organic	72.1			68.21		ug/L				5	20

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 160-174939/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174952 — **Prep Batch: 174939**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	2.0	U	10.0	2.0	mg/L		02/20/15 09:11	02/20/15 10:08	1

Lab Sample ID: LCS 160-174939/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174952 — **Prep Batch: 174939**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	50.0	49.78		mg/L		100	70 - 130

Lab Sample ID: 160-10498-2 MS — **Client Sample ID: B30H89**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174952 — **Prep Batch: 174939**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	2.0	U	50.0	49.78		mg/L		100	70 - 130

Lab Sample ID: 160-10498-2 DU — **Client Sample ID: B30H89**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174952 — **Prep Batch: 174939**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	2.0	U	2.0	U	mg/L		NC	20

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 160-177507/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 177507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			03/04/15 18:53	1

Lab Sample ID: LCS 160-177507/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 177507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.95		mg/L		99	90 - 110

Lab Sample ID: 160-10462-2 MS — **Client Sample ID: B303H1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 177507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.35	U	5.00	5.02		mg/L		100	76 - 120

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 160-10462-2 DU — **Client Sample ID: B303H1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 177507

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	0.35	U		0.35	U	mg/L				NC	20

Method: C-01-1 - Carbon-14 (EERF C-01-1)

Lab Sample ID: MB 160-174386/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 175025 — **Prep Batch: 174386**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Carbon-14	-8.59	U	6.22	6.29	20.0	11.2	pCi/L	02/17/15 08:26	02/20/15 12:57	1

Lab Sample ID: LCS 160-174386/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174917 — **Prep Batch: 174386**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Carbon-14			1130	1123		124	20.0	12.8	pCi/L	100	38 - 112		

Lab Sample ID: 160-10367-A-5-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174917 — **Prep Batch: 174386**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Carbon-14	345		1130	1561		171	20.0	12.7	pCi/L	108	37 - 121		

Lab Sample ID: 160-10367-B-4-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 174917 — **Prep Batch: 174386**

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Carbon-14	366			535.5		60.7	20.0	12.8	pCi/L			1.65	1

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

GC/MS VOA

Analysis Batch: 173742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10424-C-1 MS	Matrix Spike	Total/NA	Water	8260C	
160-10424-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	
160-10462-3	B303H7	Total/NA	Water	8260C	
LCS 160-173742/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-173742/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 160-173742/9	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 174373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10462-4	B306Y8	Total/NA	Water	8260C	
160-10462-4 MS	B306Y8	Total/NA	Water	8260C	
160-10462-4 MSD	B306Y8	Total/NA	Water	8260C	
160-10462-5	B306X3	Total/NA	Water	8260C	
160-10462-6	B307N6	Total/NA	Water	8260C	
160-10462-7	B307N5	Total/NA	Water	8260C	
160-10462-8	B30HM7	Total/NA	Water	8260C	
160-10498-1	B30727	Total/NA	Water	8260C	
160-10498-2	B30H89	Total/NA	Water	8260C	
160-10498-2	B30H89	Total/NA	Water	8260C	
LCS 160-174373/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-174373/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 160-174373/9	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 174387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10517-1	B30H65	Total/NA	Water	8260C	
160-10517-1 MS	B30H65	Total/NA	Water	8260C	
160-10517-1 MSD	B30H65	Total/NA	Water	8260C	
160-10517-2	B30H75	Total/NA	Water	8260C	
160-10517-2	B30H75	Total/NA	Water	8260C	
160-10517-3	B30H80	Total/NA	Water	8260C	
160-10517-4	B30HB3	Total/NA	Water	8260C	
160-10517-5	B30HB8	Total/NA	Water	8260C	
160-10517-6	B30HM9	Total/NA	Water	8260C	
LCS 160-174387/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-174387/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 160-174387/9	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 174940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10517-3	B30H80	Total/NA	Water	8260C	
160-10517-4	B30HB3	Total/NA	Water	8260C	
LCS 160-174940/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-174940/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 160-174940/9	Method Blank	Total/NA	Water	8260C	

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

GC/MS Semi VOA

Prep Batch: 174432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10498-1	B30727	Total/NA	Water	3510C	
160-10498-1 MS	B30727	Total/NA	Water	3510C	
160-10498-1 MSD	B30727	Total/NA	Water	3510C	
LCS 160-174432/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 160-174432/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 176173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10498-1	B30727	Total/NA	Water	8270D	174432
160-10498-1 MS	B30727	Total/NA	Water	8270D	174432
160-10498-1 MSD	B30727	Total/NA	Water	8270D	174432
LCS 160-174432/2-A	Lab Control Sample	Total/NA	Water	8270D	174432
MB 160-174432/1-A	Method Blank	Total/NA	Water	8270D	174432

HPLC/IC

Analysis Batch: 173735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10462-1 - DL	B303H2	Total/NA	Water	300.0	
160-10462-1 DU - DL	B303H2	Total/NA	Water	300.0	
160-10462-1 MS - DL	B303H2	Total/NA	Water	300.0	
LCS 160-173735/10	Lab Control Sample	Total/NA	Water	300.0	
MB 160-173735/9	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 173736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10462-1 - DL	B303H2	Total/NA	Water	300.0	
160-10462-1 DU - DL	B303H2	Total/NA	Water	300.0	
160-10462-1 MS - DL	B303H2	Total/NA	Water	300.0	
LCS 160-173736/10	Lab Control Sample	Total/NA	Water	300.0	
MB 160-173736/9	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 173842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10462-1 - DL	B303H2	Total/NA	Water	300.0	
160-10462-1 DU - DL	B303H2	Total/NA	Water	300.0	
160-10462-1 MS	B303H2	Total/NA	Water	300.0	
LCS 160-173842/10	Lab Control Sample	Total/NA	Water	300.0	
MB 160-173842/9	Method Blank	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 174402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10445-G-2 DU	Duplicate	Total/NA	Water	160.1	
160-10498-2	B30H89	Total/NA	Water	160.1	
160-10517-1	B30H65	Total/NA	Water	160.1	
160-10517-2	B30H75	Total/NA	Water	160.1	
160-10517-3	B30H80	Total/NA	Water	160.1	
160-10517-4	B30HB3	Total/NA	Water	160.1	

General Chemistry (Continued)

Analysis Batch: 174402 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10517-5	B30HB8	Total/NA	Water	160.1	
160-10517-5 DU	B30HB8	Total/NA	Water	160.1	
LCS 160-174402/2	Lab Control Sample	Total/NA	Water	160.1	
MB 160-174402/1	Method Blank	Total/NA	Water	160.1	

Analysis Batch: 174441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10424-A-5 DU	Duplicate	Total/NA	Water	310.1	
160-10424-A-5 MS	Matrix Spike	Total/NA	Water	310.1	
160-10498-2	B30H89	Total/NA	Water	310.1	
160-10517-1	B30H65	Total/NA	Water	310.1	
160-10517-2	B30H75	Total/NA	Water	310.1	
160-10517-3	B30H80	Total/NA	Water	310.1	
160-10517-3 DU	B30H80	Total/NA	Water	310.1	
160-10517-3 MS	B30H80	Total/NA	Water	310.1	
160-10517-4	B30HB3	Total/NA	Water	310.1	
160-10517-5	B30HB8	Total/NA	Water	310.1	
HLCS 160-174441/23	Lab Control Sample	Total/NA	Water	310.1	
HLCS 160-174441/43	Lab Control Sample	Total/NA	Water	310.1	
LCS 160-174441/22	Lab Control Sample	Total/NA	Water	310.1	
LCS 160-174441/42	Lab Control Sample	Total/NA	Water	310.1	
MB 160-174441/21	Method Blank	Total/NA	Water	310.1	
MB 160-174441/41	Method Blank	Total/NA	Water	310.1	

Prep Batch: 174936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10462-2	B303H1	Total/NA	Water	9010C	
160-10462-2 DU	B303H1	Total/NA	Water	9010C	
160-10462-2 MS	B303H1	Total/NA	Water	9010C	
HLCS 160-174936/3-A	Lab Control Sample	Total/NA	Water	9010C	
LCS 160-174936/2-A	Lab Control Sample	Total/NA	Water	9010C	
MB 160-174936/1-A	Method Blank	Total/NA	Water	9010C	

Prep Batch: 174939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10498-2	B30H89	Total/NA	Water	9030B	
160-10498-2 DU	B30H89	Total/NA	Water	9030B	
160-10498-2 MS	B30H89	Total/NA	Water	9030B	
160-10517-1	B30H65	Total/NA	Water	9030B	
160-10517-2	B30H75	Total/NA	Water	9030B	
160-10517-3	B30H80	Total/NA	Water	9030B	
160-10517-4	B30HB3	Total/NA	Water	9030B	
160-10517-5	B30HB8	Total/NA	Water	9030B	
LCS 160-174939/2-A	Lab Control Sample	Total/NA	Water	9030B	
MB 160-174939/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 174952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10498-2	B30H89	Total/NA	Water	9034	174939
160-10498-2 DU	B30H89	Total/NA	Water	9034	174939
160-10498-2 MS	B30H89	Total/NA	Water	9034	174939

General Chemistry (Continued)

Analysis Batch: 174952 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10517-1	B30H65	Total/NA	Water	9034	174939
160-10517-2	B30H75	Total/NA	Water	9034	174939
160-10517-3	B30H80	Total/NA	Water	9034	174939
160-10517-4	B30HB3	Total/NA	Water	9034	174939
160-10517-5	B30HB8	Total/NA	Water	9034	174939
LCS 160-174939/2-A	Lab Control Sample	Total/NA	Water	9034	174939
MB 160-174939/1-A	Method Blank	Total/NA	Water	9034	174939

Analysis Batch: 176170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10462-2	B303H1	Total/NA	Water	9012B	174936
160-10462-2 DU	B303H1	Total/NA	Water	9012B	174936
160-10462-2 MS	B303H1	Total/NA	Water	9012B	174936
HLCS 160-174936/3-A	Lab Control Sample	Total/NA	Water	9012B	174936
LCS 160-174936/2-A	Lab Control Sample	Total/NA	Water	9012B	174936
MB 160-174936/1-A	Method Blank	Total/NA	Water	9012B	174936

Prep Batch: 177404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10367-B-7-B DU	Duplicate	Total/NA	Water	Carbon Trap	
160-10367-B-7-C MS	Matrix Spike	Total/NA	Water	Carbon Trap	
160-10462-3	B303H7	Total/NA	Water	Carbon Trap	
LCS 160-177404/2-A	Lab Control Sample	Total/NA	Water	Carbon Trap	
MB 160-177404/1-A	Method Blank	Total/NA	Water	Carbon Trap	

Analysis Batch: 177405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10367-B-7-B DU	Duplicate	Total/NA	Water	9020B	177404
160-10367-B-7-C MS	Matrix Spike	Total/NA	Water	9020B	177404
160-10462-3	B303H7	Total/NA	Water	9020B	177404
LCS 160-177404/2-A	Lab Control Sample	Total/NA	Water	9020B	177404
MB 160-177404/1-A	Method Blank	Total/NA	Water	9020B	177404

Analysis Batch: 177507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10462-2	B303H1	Total/NA	Water	9060	
160-10462-2 DU	B303H1	Total/NA	Water	9060	
160-10462-2 MS	B303H1	Total/NA	Water	9060	
160-10498-2	B30H89	Total/NA	Water	9060	
160-10517-1	B30H65	Total/NA	Water	9060	
160-10517-2	B30H75	Total/NA	Water	9060	
160-10517-3	B30H80	Total/NA	Water	9060	
160-10517-4	B30HB3	Total/NA	Water	9060	
160-10517-5	B30HB8	Total/NA	Water	9060	
LCS 160-177507/5	Lab Control Sample	Total/NA	Water	9060	
MB 160-177507/4	Method Blank	Total/NA	Water	9060	

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

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Prep Batch: 174386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10367-A-5-B MS	Matrix Spike	Total/NA	Water	LSC_Dist_Susp	
160-10367-B-4-B DU	Duplicate	Total/NA	Water	LSC_Dist_Susp	
160-10462-3	B303H7	Total/NA	Water	LSC_Dist_Susp	
LCS 160-174386/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
MB 160-174386/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-129)	(81-130)	(81-124)	(87-128)
160-10424-C-1 MS	Matrix Spike	91	106	100	105
160-10424-D-1 MSD	Matrix Spike Duplicate	89	109	100	107
160-10462-3	B303H7	102	115	106	110
160-10462-4	B306Y8	103	106	104	106
160-10462-4 MS	B306Y8	92	101	97	103
160-10462-4 MSD	B306Y8	89	103	99	105
160-10462-5	B306X3	102	105	101	104
160-10462-6	B307N6	92	106	100	105
160-10462-7	B307N5	95	109	102	103
160-10462-8	B30HM7	94	108	102	106
160-10498-1	B30727	101	112	104	104
160-10498-2	B30H89	93	112	104	107
160-10498-2	B30H89	98	106	105	103
160-10517-1	B30H65	95	97	99	103
160-10517-1 MS	B30H65	102	86	101	90
160-10517-1 MSD	B30H65	99	86	104	95
160-10517-2	B30H75	94	96	101	103
160-10517-2	B30H75	96	92	109	103
160-10517-3	B30H80	92	95	101	106
160-10517-3	B30H80	98	89	108	101
160-10517-4	B30HB3	91	94	98	101
160-10517-4	B30HB3	89	87	102	101
160-10517-5	B30HB8	96	94	99	102
160-10517-6	B30HM9	92	93	99	102
LCS 160-173742/6	Lab Control Sample	88	107	103	107
LCS 160-174373/6	Lab Control Sample	91	103	105	107
LCS 160-174387/6	Lab Control Sample	96	87	100	95
LCS 160-174940/6	Lab Control Sample	89	85	95	97
LCSD 160-173742/7	Lab Control Sample Dup	93	106	100	103
LCSD 160-174373/7	Lab Control Sample Dup	88	103	100	103
LCSD 160-174387/7	Lab Control Sample Dup	95	91	102	94
LCSD 160-174940/7	Lab Control Sample Dup	90	85	97	96
MB 160-173742/9	Method Blank	94	113	105	107
MB 160-174373/9	Method Blank	96	104	103	103
MB 160-174387/9	Method Blank	98	94	99	104
MB 160-174940/9	Method Blank	91	90	94	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10462-1
SDG: SL1764

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	TBP	NBZ	PHL	TPH	FBP
Lab Sample ID	Client Sample ID	(10-74)	(47-103)	(31-105)	(10-50)	(68-116)	(30-99)
160-10498-1	B30727	41	82	90	25	60	85
160-10498-1 MS	B30727	38	80	84	23	68	80
160-10498-1 MSD	B30727	39	87	89	24	75	86
LCS 160-174432/2-A	Lab Control Sample	43	87	87	27	85	85
MB 160-174432/1-A	Method Blank	40	74	77	25	75	73

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
FBP = 2-Fluorobiphenyl (Surr)