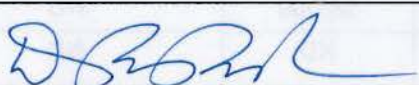
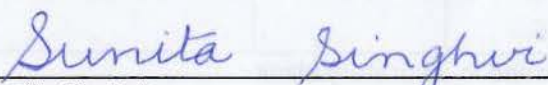


Region 6 Compliance Assurance and Enforcement Division

**INSPECTION REPORT
SUPPLEMENTAL**

Inspection Date(s):	11/13/2017 to 11/16/2017		
Media:	RCRA		
Regulatory Program(s)	Used Oil and Generator Requirements; CEI – Focused Compliance Evaluation Inspection		
Company Name:	January Environmental Services Inc.		
Facility Name:	January Environmental Services Inc.		
Facility Physical Location:	4300 SW 36 th St.		
(city, state, zip code)	Oklahoma City, OK 73119		
Mailing address:	2701 S. Prospect		
(city, state, zip code)	Oklahoma City, OK 73129		
County/Parish:	Oklahoma		
Facility Contact:	Mr. Cris January	Owner	
	cris@januaryservices.com		
FRS Number:	None		
Identification/Permit Number:	OKD42146324		
Media Number:	None		
NAICS:	48422		
SIC:	None		
Personnel participating in inspection:			
Debra Pandak	U.S. EPA Region 6	Inspector	214-665-7565
David Robertson	U.S. EPA Region 6	Inspector	214-665-7363
Christina Coffel	Oklahoma Dept. of Environmental Quality (ODEQ)	Inspector	405-702-5176
Roarke Blackwell	ODEQ	Inspector	405-702-5127
Tory Smith	ODEQ	Inspector	405-702-5221
Alicia Chen	ODEQ	Inspector	405-702-5219
Cris January	January Environmental Services	Owner	
EPA Lead Inspector Signature/Date			5/3/18
	Debra Pandak		Date
Supervisor Signature/Date			5/2/18
	Sunita Singhvi		Date

Section I – INTRODUCTION

PURPOSE OF THE SUPPLEMENTAL REPORT

The purpose of the supplement to the Inspection Report dated January 4, 2018, is to provide the analytical results of samples collected during EPA's inspection and analyzed by the EPA Houston Laboratory.

SECTION II - SAMPLE RESULTS

The EPA team collected used oil and waste samples on November 14, 2017. Containers sampled and the contents collected are:

Container	Contents
Tank 15	Used Oil
Tank 19	Used Oil/Water
Tank 21	Used Oil
Tote 6	Waste Ink (according to label)
Drum #10	Waste liquid
Roll-off C25276D	Waste liquid
Roll-off R25036	Waste liquid

Analytical results are attached as Appendix 15. Results show detection of 2-butanone, tetrachloroethene and benzene. A summary of organics detected in the used oil tanks, and other units sampled, is shown below.

Unit Sampled	2-butanone (ppm) Regulatory limit 200 ppm	Tetrachloroethene (ppm) Regulatory limit 0.70 ppm
Tank 15	13.0	0.60
Tank 19	5.53	ND
Tank 21	10.8	ND
Tote 6	0.128 B	ND
Drum #10	58,000	ND
Roll-off C25276D	ND	ND
Roll-off R25036	0.66	ND

B – found in laboratory blank

LIST OF APPENDICES

Appendix 1S – Region 6 Laboratory, Final Analytical Report

Appendix - 1S



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch

10625 Fallstone Road, Houston, TX 77099

Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name ----- January Environmental Services
Sample Collection Date(s)-- 11/08/17 - 11/14/17
Contact----- Debra Pandak (6EN-H2)
Report Date----- 03/26/18
Project #----- 18RCRA019
Work Order(s)----- 1711006

Analyses included in this report:

Metals ICP (RCRA 8) 6010D	Metals Ignitability 1020B
Metals Mercury 7470A	Metals TCLP Hg 1311/7470A
Metals TCLP ICP 1311/6010D	TCLP 1311 Hg Prep
TCLP 1311 Metals Prep	TCLP 1311 VOA/ZHE Prep
VOA 8260C Routine List	VOA TCLP 1311/8260C

Report Narrative

Volatiles:

TCLP sample preparation was performed outside recommended holding time in Method 1311. Samples are qualified as HTT. Per customer, the samples are waste and do not have a holding time. However, laboratory policy is to say concentrations should be considered minimum values when prepared past recommended date.

Sample 1711006-08 significantly exceeded the TCLP maximum concentration limit (MCL) for 2-Butanone at 58,700,000 ug/L (limit is 200,000 ug/L). All other samples had concentrations below the TCLP MCL.

In sample 1711006-02, 2-Butanone is qualified as high biased due to high failure of the continuing calibration verification that day of analysis. The result is significantly below the TCLP MCL and is therefore usable.

2-Butanone is qualified as blank related in sample 1711006-07 due to presence of this analyte in the associated analysis blank.

Report Narrative (cont'd)

Batch B8C1304: The surrogate 1,2-Dichloroethane-d4 fails low in the MSD but should not affect the data.

Metals ICP:

Batch B8B2801:

MS1/MSD1 (Sample Source 1711006-06): Selenium spike recoveries are outside upper control limits; the sample source results are qualified and are an estimate.

Metals Mercury 7470A

The samples were redigested at reduced initial volume of 0.20 mls instead of 25 mls because of the matrix problems in batch B8C0801 and analyzed with acceptable QC.

Metals Ignitability 1020B:

Samples 1711006-01 and -02 are phasic, each having two layers. Both layers of sample 1711006-01 had no flash @ up to 60°C, and that was the result reported for sample 1711006-01. The top layer of sample 1711006-02 had insufficient volume to collect an aliquot for analysis. The bottom layer of sample 1711006-02 had no flash @ up to 60°C, and that was the result reported for sample 1711006-02.

The only sample that flashed below 60°C was sample 1711006-08 which flashed at 28° C.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

The reporting limit (sometimes referred to as a quantitation limit) is defined as the lowest concentration at which an analyte can be reliably measured and reported without qualification. Reporting limits are adjusted for sample size, dilution, and matrix interference. Concentrations below the reporting limit are reported as non-detects or <RL.

For a list of ISO 17025 accredited methods go to:

<http://region6a.epa.gov/intranet/6md/lab/labisocertification2018.pdf>

Report Approvals:

Richard McMillin
Region 6 Laboratory Technical Manager

David W. McQuiddy
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: January Environmental Services

Project Number: 18RCRA019

Data Management Coordinator: Christy Warren

Data Management Coordinator Signature

Date

Date Transmitted: ____/____/____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

Signature

Date

Please provide a reason for holding:



Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
C25276D	1711006-01	Liquid	11/14/17 14:51	11/16/17 11:55
R25036	1711006-02	Liquid	11/14/17 15:13	11/16/17 11:55
Tank 15	1711006-03	Liquid	11/14/17 15:43	11/16/17 11:55
Tank 19	1711006-04	Liquid	11/14/17 15:51	11/16/17 11:55
Tank B	1711006-05	Liquid	11/14/17 15:57	11/16/17 11:55
Tank 21	1711006-06	Liquid	11/14/17 16:01	11/16/17 11:55
Tote 6	1711006-07	Liquid	11/14/17 16:28	11/16/17 11:55
Drum 10	1711006-08	Liquid	11/14/17 16:45	11/16/17 11:55
Tote A	1711006-09	Liquid	11/14/17 16:28	11/16/17 11:55
Sta A	1711006-10	Liquid	11/8/17 10:30	11/16/17 11:55



Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

QC SUMMARY REPORT

Metals ICP (RCRA 8) 6010D	
B8B2801	
Liquid	
Samples: 8	ReExts: 0
LAB NUMBER	SOURCE
B8B2801-BLK1	
B8B2801-BS1	
B8B2801-MS1	1711006-06
B8B2801-MSD1	1711006-06

Metals Ignitability 1020B	
B8A0501	
Liquid	
Samples: 9	ReExts: 0
LAB NUMBER	SOURCE
B8A0501-DUP1	1711006-06

Metals Mercury 7470A	
B8C0501	
Liquid	
Samples: 8	ReExts: 0
LAB NUMBER	SOURCE
B8C0501-BLK1	
B8C0501-BS1	
B8C0501-BS2	
B8C0501-BS3	
B8C0501-BS4	
B8C0501-BS5	
B8C0501-BS6	
B8C0501-BS7	
B8C0501-MS1	1711006-06
B8C0501-MSD1	1711006-06

B8C0801	
Liquid	
Samples: 0	ReExts: 8
LAB NUMBER	SOURCE
B8C0801-BLK1	
B8C0801-BS1	
B8C0801-BS2	
B8C0801-BS3	
B8C0801-BS4	
B8C0801-BS5	
B8C0801-BS6	
B8C0801-BS7	
B8C0801-MS1	1711006-06RE1
B8C0801-MSD1	1711006-06RE1



Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

TCLP 1311 VOA/ZHE Prep	
B8B1504	
Liquid	
Samples: 9	ReExts: 0
LAB NUMBER	SOURCE
B8B1504-BLK1	
B8B1504-BLK2	

VOA 8260C Routine List	
B8C1303	
Liquid	
Samples: 1	ReExts: 0
LAB NUMBER	SOURCE
B8C1303-BLK1	
B8C1303-BS1	

VOA TCLP 1311/8260C	
B8C1304	
Liquid	
Samples: 9	ReExts: 0
LAB NUMBER	SOURCE
B8C1304-BLK1	
B8C1304-BLK2	
B8C1304-BLK3	
B8C1304-BLK4	
B8C1304-BS1	
B8C1304-BS2	
B8C1304-BS3	
B8C1304-BS4	
B8C1304-MS1	1711006-06
B8C1304-MSD1	1711006-06



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010D - ICP

Lab ID: 1711006-01

Station ID: C25276D

Batch: B8B2801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		120	1	02/28/18	03/07/18
Barium (7440-39-3)	781		12.0	"	"	"
Cadmium (7440-43-9)	7.0		6.0	"	"	"
Chromium (7440-47-3)	19.3		12.0	"	"	"
Lead (7439-92-1)	86.9		36.0	"	"	"
Selenium (7782-49-2)	U		120	"	"	"
Silver (7440-22-4)	U		12.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

TCLP Volatiles by EPA Method 1311/8260C - GC/MS

Lab ID: 1711006-01

Station ID: C25276D

Batch: B8C1304

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers: HTT

Batch Matrix: Liquid

TCLP Prepared: 2/21/18

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	46.9		93.9	86-117	03/02/18	03/02/18
<i>Toluene-d8</i>	46.3		92.6	85-113	"	"
<i>4-Bromofluorobenzene</i>	46.5		92.9	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Vinyl chloride (75-01-4)	U		20.0	10	03/02/18	03/02/18
1,1-Dichloroethene (75-35-4)	U		20.0	"	"	"
2-Butanone (78-93-3)	U		50.0	"	"	"
Chloroform (67-66-3)	U		20.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		20.0	"	"	"
Carbon tetrachloride (56-23-5)	U		20.0	"	"	"
Benzene (71-43-2)	U		20.0	"	"	"
Trichloroethene (79-01-6)	U		20.0	"	"	"
Tetrachloroethene (127-18-4)	U		20.0	"	"	"
Chlorobenzene (108-90-7)	U		20.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		20.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 7470A/7471B - CVAAS

Lab ID: 1711006-01RE1

Station ID: C25276D

Batch: B8C0801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 0.2ml

Sample Qualifiers: HTS

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		25.0	1	03/08/18	03/08/18



Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010D - ICP

Lab ID: 1711006-02

Station ID: R25036

Batch: B8B2801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		120	1	02/28/18	03/07/18
Barium (7440-39-3)	573		12.0	"	"	"
Cadmium (7440-43-9)	38.7		6.0	"	"	"
Chromium (7440-47-3)	52.4		12.0	"	"	"
Lead (7439-92-1)	308		36.0	"	"	"
Selenium (7782-49-2)	737		120	"	"	"
Silver (7440-22-4)	U		12.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

TCLP Volatiles by EPA Method 1311/8260C - GC/MS

Lab ID: 1711006-02

Station ID: R25036

Batch: B8C1304

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers: HTT

Batch Matrix: Liquid

TCLP Prepared: 2/21/18

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	48.6		97.2	86-117	03/02/18	03/02/18
<i>Toluene-d8</i>	47.2		94.4	85-113	"	"
<i>4-Bromofluorobenzene</i>	48.5		96.9	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Vinyl chloride (75-01-4)	U		40.0	20	03/02/18	03/02/18
1,1-Dichloroethene (75-35-4)	U		40.0	"	"	"
2-Butanone (78-93-3)	667	K	100	"	"	"
Chloroform (67-66-3)	U		40.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		40.0	"	"	"
Carbon tetrachloride (56-23-5)	U		40.0	"	"	"
Benzene (71-43-2)	56.2		40.0	"	"	"
Trichloroethene (79-01-6)	U		40.0	"	"	"
Tetrachloroethene (127-18-4)	U		40.0	"	"	"
Chlorobenzene (108-90-7)	U		40.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		40.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 7470A/7471B - CVAAS

Lab ID: 1711006-02RE1

Station ID: R25036

Batch: B8C0801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 0.2ml

Sample Qualifiers: HTS

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		25.0	1	03/08/18	03/08/18



Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010D - ICP

Lab ID: 1711006-03

Station ID: Tank 15

Batch: B8B2801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		100	1	02/28/18	03/07/18
Barium (7440-39-3)	301		10.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	1,520		10.0	"	"	"
Lead (7439-92-1)	115		30.0	"	"	"
Selenium (7782-49-2)	551		100	"	"	"
Silver (7440-22-4)	23.3		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

TCLP Volatiles by EPA Method 1311/8260C - GC/MS

Lab ID: 1711006-03

Station ID: Tank 15

Batch: B8C1304

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers: HTT

Batch Matrix: Liquid

TCLP Prepared: 2/21/18

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	44.0		88.0	86-117	03/07/18	03/07/18
<i>Toluene-d8</i>	45.7		91.4	85-113	"	"
<i>4-Bromofluorobenzene</i>	46.1		92.2	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Vinyl chloride (75-01-4)	U		400	200	03/07/18	03/07/18
1,1-Dichloroethene (75-35-4)	U		400	"	"	"
2-Butanone (78-93-3)	13,100		1,000	"	"	"
Chloroform (67-66-3)	U		400	"	"	"
1,2-Dichloroethane (107-06-2)	U		400	"	"	"
Carbon tetrachloride (56-23-5)	U		400	"	"	"
Benzene (71-43-2)	U		400	"	"	"
Trichloroethene (79-01-6)	U		400	"	"	"
Tetrachloroethene (127-18-4)	626		400	"	"	"
Chlorobenzene (108-90-7)	U		400	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		400	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 7470A/7471B - CVAAS

Lab ID: 1711006-03RE1

Station ID: Tank 15

Batch: B8C0801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 0.2ml

Sample Qualifiers: HTS

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		25.0	1	03/08/18	03/08/18



Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010D - ICP

Lab ID: 1711006-04

Station ID: Tank 19

Batch: B8B2801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		100	1	02/28/18	03/07/18
Barium (7440-39-3)	360		10.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	1,250		10.0	"	"	"
Lead (7439-92-1)	U		30.0	"	"	"
Selenium (7782-49-2)	772		100	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

TCLP Volatiles by EPA Method 1311/8260C - GC/MS

Lab ID: 1711006-04

Station ID: Tank 19

Batch: B8C1304

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers: HTT

Batch Matrix: Liquid

TCLP Prepared: 2/21/18

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	46.4		92.8	86-117	03/06/18	03/06/18
<i>Toluene-d8</i>	46.4		92.8	85-113	"	"
<i>4-Bromofluorobenzene</i>	47.8		95.6	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Vinyl chloride (75-01-4)	U		200	100	03/06/18	03/06/18
1,1-Dichloroethene (75-35-4)	U		200	"	"	"
2-Butanone (78-93-3)	5,530		500	"	"	"
Chloroform (67-66-3)	U		200	"	"	"
1,2-Dichloroethane (107-06-2)	U		200	"	"	"
Carbon tetrachloride (56-23-5)	U		200	"	"	"
Benzene (71-43-2)	U		200	"	"	"
Trichloroethene (79-01-6)	U		200	"	"	"
Tetrachloroethene (127-18-4)	U		200	"	"	"
Chlorobenzene (108-90-7)	U		200	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		200	"	"	"



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 7470A/7471B - CVAAS

Lab ID: 1711006-04RE1

Station ID: Tank 19

Batch: B8C0801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 0.2ml

Sample Qualifiers: HTS

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		25.0	1	03/08/18	03/08/18



Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010D - ICP

Lab ID: 1711006-05

Station ID: Tank B

Batch: B8B2801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		100	1	02/28/18	03/07/18
Barium (7440-39-3)	353		10.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	1,260		10.0	"	"	"
Lead (7439-92-1)	U		30.0	"	"	"
Selenium (7782-49-2)	778		100	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"



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TCLP Volatiles by EPA Method 1311/8260C - GC/MS

Lab ID: 1711006-05

Station ID: Tank B

Batch: B8C1304

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers: HTT

Batch Matrix: Liquid

TCLP Prepared: 2/21/18

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	45.7		91.4	86-117	03/06/18	03/06/18
<i>Toluene-d8</i>	46.8		93.5	85-113	"	"
<i>4-Bromofluorobenzene</i>	48.1		96.2	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Vinyl chloride (75-01-4)	U		200	100	03/06/18	03/06/18
1,1-Dichloroethene (75-35-4)	U		200	"	"	"
2-Butanone (78-93-3)	5,860		500	"	"	"
Chloroform (67-66-3)	U		200	"	"	"
1,2-Dichloroethane (107-06-2)	U		200	"	"	"
Carbon tetrachloride (56-23-5)	U		200	"	"	"
Benzene (71-43-2)	U		200	"	"	"
Trichloroethene (79-01-6)	U		200	"	"	"
Tetrachloroethene (127-18-4)	U		200	"	"	"
Chlorobenzene (108-90-7)	U		200	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		200	"	"	"



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Metals by EPA Method 7470A/7471B - CVAAS

Lab ID: 1711006-05RE1

Station ID: Tank B

Batch: B8C0801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 0.2ml

Sample Qualifiers: HTS

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		25.0	1	03/08/18	03/08/18



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Metals by EPA Method 6010D - ICP

Lab ID: 1711006-06

Station ID: Tank 21

Batch: B8B2801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		100	1	02/28/18	03/07/18
Barium (7440-39-3)	310		10.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	242		10.0	"	"	"
Lead (7439-92-1)	33.0		30.0	"	"	"
Selenium (7782-49-2)	463	J	100	"	"	"
Silver (7440-22-4)	40.0		10.0	"	"	"



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TCLP Volatiles by EPA Method 1311/8260C - GC/MS

Lab ID: 1711006-06

Station ID: Tank 21

Batch: B8C1304

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers: HTT

Batch Matrix: Liquid

TCLP Prepared: 2/21/18

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	44.9		89.7	86-117	03/07/18	03/07/18
<i>Toluene-d8</i>	46.3		92.6	85-113	"	"
<i>4-Bromofluorobenzene</i>	46.9		93.8	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Vinyl chloride (75-01-4)	U		400	200	03/07/18	03/07/18
1,1-Dichloroethene (75-35-4)	U		400	"	"	"
2-Butanone (78-93-3)	10,800		1,000	"	"	"
Chloroform (67-66-3)	U		400	"	"	"
1,2-Dichloroethane (107-06-2)	U		400	"	"	"
Carbon tetrachloride (56-23-5)	U		400	"	"	"
Benzene (71-43-2)	U		400	"	"	"
Trichloroethene (79-01-6)	U		400	"	"	"
Tetrachloroethene (127-18-4)	U		400	"	"	"
Chlorobenzene (108-90-7)	U		400	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		400	"	"	"



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Metals by EPA Method 7470A/7471B - CVAAS

Lab ID: 1711006-06RE1

Station ID: Tank 21

Batch: B8C0801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 0.2ml

Sample Qualifiers: HTS

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	54.0		25.0	1	03/08/18	03/08/18



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Metals by EPA Method 6010D - ICP

Lab ID: 1711006-07

Station ID: Tote 6

Batch: B8B2801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		100	1	02/28/18	03/07/18
Barium (7440-39-3)	36.5		10.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Lead (7439-92-1)	U		30.0	"	"	"
Selenium (7782-49-2)	U		100	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"



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TCLP Volatiles by EPA Method 1311/8260C - GC/MS

Lab ID: 1711006-07

Station ID: Tote 6

Batch: B8C1304

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers: HTT

Batch Matrix: Liquid

TCLP Prepared: 2/21/18

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	43.8		87.7	86-117	03/06/18	03/06/18
Toluene-d8	45.3		90.5	85-113	"	"
4-Bromofluorobenzene	46.5		92.9	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Vinyl chloride (75-01-4)	U		20.0	10	03/06/18	03/06/18
1,1-Dichloroethene (75-35-4)	U		20.0	"	"	"
2-Butanone (78-93-3)	128	B	50.0	"	"	"
Chloroform (67-66-3)	U		20.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		20.0	"	"	"
Carbon tetrachloride (56-23-5)	U		20.0	"	"	"
Benzene (71-43-2)	U		20.0	"	"	"
Trichloroethene (79-01-6)	U		20.0	"	"	"
Tetrachloroethene (127-18-4)	U		20.0	"	"	"
Chlorobenzene (108-90-7)	U		20.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		20.0	"	"	"



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Metals by EPA Method 7470A/7471B - CVAAS

Lab ID: 1711006-07RE1

Station ID: Tote 6

Batch: B8C0801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 0.2ml

Sample Qualifiers: HTS

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		25.0	1	03/08/18	03/08/18



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TCLP Volatiles by EPA Method 1311/8260C - GC/MS

Lab ID: 1711006-08

Station ID: Drum 10

Batch: B8C1304

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers: HTT

Batch Matrix: Liquid

TCLP Prepared: 2/21/18

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	47.3		94.7	86-117	03/06/18	03/06/18
Toluene-d8	48.5		96.9	85-113	"	"
4-Bromofluorobenzene	48.8		97.6	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Vinyl chloride (75-01-4)	U		100,000	50000	03/06/18	03/06/18
1,1-Dichloroethene (75-35-4)	U		100,000	"	"	"
2-Butanone (78-93-3)	5.87E7		2.50E6	500000	"	03/06/18
Chloroform (67-66-3)	U		100,000	50000	"	03/06/18
1,2-Dichloroethane (107-06-2)	U		100,000	"	"	"
Carbon tetrachloride (56-23-5)	U		100,000	"	"	"
Benzene (71-43-2)	U		100,000	"	"	"
Trichloroethene (79-01-6)	U		100,000	"	"	"
Tetrachloroethene (127-18-4)	U		100,000	"	"	"
Chlorobenzene (108-90-7)	U		100,000	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		100,000	"	"	"



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Metals by EPA Method 6010D - ICP

Lab ID: 1711006-09

Station ID: Tote A

Batch: B8B2801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		100	1	02/28/18	03/07/18
Barium (7440-39-3)	34.6		10.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Lead (7439-92-1)	U		30.0	"	"	"
Selenium (7782-49-2)	U		100	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"



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TCLP Volatiles by EPA Method 1311/8260C - GC/MS

Lab ID: 1711006-09

Station ID: Tote A

Batch: B8C1304

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers: HTT

Batch Matrix: Liquid

TCLP Prepared: 2/21/18

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	47.4		94.9	86-117	03/05/18	03/05/18
<i>Toluene-d8</i>	44.5		88.9	85-113	"	"
<i>4-Bromofluorobenzene</i>	47.3		94.5	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Vinyl chloride (75-01-4)	U		20.0	10	03/05/18	03/05/18
1,1-Dichloroethene (75-35-4)	U		20.0	"	"	"
2-Butanone (78-93-3)	77.4		50.0	"	"	"
Chloroform (67-66-3)	U		20.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		20.0	"	"	"
Carbon tetrachloride (56-23-5)	U		20.0	"	"	"
Benzene (71-43-2)	U		20.0	"	"	"
Trichloroethene (79-01-6)	U		20.0	"	"	"
Tetrachloroethene (127-18-4)	22.8		20.0	"	"	"
Chlorobenzene (108-90-7)	U		20.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		20.0	"	"	"



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Metals by EPA Method 7470A/7471B - CVAAS

Lab ID: 1711006-09RE1

Station ID: Tote A

Batch: B8C0801

Date Collected: 11/14/17

Sample Type: Liquid

Sample Vol: 0.2ml

Sample Qualifiers: HTS

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		25.0	1	03/08/18	03/08/18



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Volatiles by EPA Method 8260C - GC/MS

Lab ID: 1711006-10

Station ID: Sta A

Batch: B8C1303

Date Collected: 11/08/17

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers: HTS

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	49.5		99.1	86-117	03/02/18	03/02/18
<i>Toluene-d8</i>	49.5		99.0	85-113	"	"
<i>4-Bromofluorobenzene</i>	49.6		99.2	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	03/02/18	03/02/18
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	U		2.0	"	"	"
Bromomethane (74-83-9)	U		5.0	"	"	"
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		2.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		2.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	U		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"



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Volatiles by EPA Method 8260C - GC/MS

Lab ID: 1711006-10

Station ID: Sta A

Batch: B8C1303

Date Collected: 11/08/17

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers: HTS

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	1	03/02/18	03/02/18
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	U		2.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 5.

If biological activity is present, then aromatics may be biased low.



Environmental Protection Agency
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Ignitability by EPA Method 1020B

Batch: B8A0501

Laboratory ID	Station ID	Result
1711006-01	C25276D	No Flash @ 60 °C
1711006-02	R25036	No Flash @ 60 °C
1711006-03	Tank 15	No Flash @ 60 °C
1711006-04	Tank 19	No Flash @ 60 °C
1711006-05	Tank B	No Flash @ 60 °C
1711006-06	Tank 21	No Flash @ 60 °C
1711006-07	Tote 6	No Flash @ 60 °C
1711006-08	Drum 10	Flash @ 28 °C
1711006-09	Tote A	No Flash @ 60 °C

MJF



Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Volatiles by EPA Method 8260C - GC/MS - Quality Control

Batch: B8C1303

Sample Type: Liquid

Blank (B8C1303-BLK1)

Prepared: 3/2/2018 Analyzed: 3/2/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	46.9		50.0	93.8	86-117
Toluene-d8	46.0		50.0	92.1	85-113
4-Bromofluorobenzene	46.4		50.0	92.9	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		5.0
Chloromethane	U		5.0
Vinyl chloride	U		2.0
Bromomethane	U		5.0
Chloroethane	U		2.0
Trichlorofluoromethane	U		2.0
1,1-Dichloroethene	U		2.0
Carbon disulfide	U		2.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		2.0
Acetone	U		10.0
Methylene chloride	U		2.0
Methyl acetate	U		2.0
trans-1,2-Dichloroethene	U		2.0
cis-1,2-Dichloroethene	U		2.0
Methyl tert-butyl ether	U		2.0
1,1-Dichloroethane	U		2.0
2-Butanone	U		5.0
Chloroform	U		2.0
1,2-Dichloroethane	U		2.0
1,1,1-Trichloroethane	U		2.0
Cyclohexane	U		2.0
Carbon tetrachloride	U		2.0
Benzene	U		2.0
Trichloroethene	U		2.0
Methylcyclohexane	U		2.0



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Volatiles by EPA Method 8260C - GC/MS - Quality Control

Batch: B8C1303

Sample Type: Liquid

Blank (B8C1303-BLK1)

Prepared: 3/2/2018 Analyzed: 3/2/2018

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
1,2-Dichloropropane	U		2.0
Bromodichloromethane	U		2.0
cis-1,3-Dichloropropene	U		2.0
trans-1,3-Dichloropropene	U		2.0
1,1,2-Trichloroethane	U		2.0
Dibromochloromethane	U		2.0
Bromoform	U		2.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		2.0
Tetrachloroethene	U		2.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		2.0
Chlorobenzene	U		2.0
Ethylbenzene	U		2.0
meta-/para-Xylene	U		4.0
ortho-Xylene	U		2.0
Styrene	U		2.0
Isopropylbenzene	U		2.0
1,1,2,2-Tetrachloroethane	U		2.0
1,3-Dichlorobenzene	U		2.0
1,4-Dichlorobenzene	U		2.0
1,2-Dichlorobenzene	U		2.0
1,2-Dibromo-3-chloropropane	U		5.0
1,2,4-Trichlorobenzene	U		5.0



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Volatiles by EPA Method 8260C - GC/MS - Quality Control

Batch: B8C1303

Sample Type: Liquid

LCS (B8C1303-BS1)

Prepared: 3/2/2018 Analyzed: 3/2/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	49.4		50.0	98.8	86-117
Toluene-d8	46.7		50.0	93.4	85-113
4-Bromofluorobenzene	49.4		50.0	98.8	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	49.7		5.0	50.0	99.5	69-132
Chloromethane	51.4		5.0	50.0	103	73-130
Vinyl chloride	49.8		2.0	50.0	99.6	76-130
Bromomethane	53.8		5.0	50.0	108	75-129
Chloroethane	48.1		2.0	50.0	96.2	75-121
Trichlorofluoromethane	47.5		2.0	50.0	95.0	79-130
1,1-Dichloroethene	48.7		2.0	50.0	97.5	76-127
Carbon disulfide	50.8		2.0	50.0	102	74-122
1,1,2-Trichloro-1,2,2-trifluoroethane	47.2		2.0	50.0	94.3	79-126
Acetone	35.1		10.0	50.0	70.1	44-140
Methylene chloride	48.0		2.0	50.0	96.0	79-122
Methyl acetate	50.4		2.0	50.0	101	78-118
trans-1,2-Dichloroethene	47.1		2.0	50.0	94.3	78-123
cis-1,2-Dichloroethene	48.5		2.0	50.0	97.1	80-120
Methyl tert-butyl ether	50.2		2.0	50.0	100	78-124
1,1-Dichloroethane	49.8		2.0	50.0	99.5	80-122
2-Butanone	45.4		5.0	50.0	90.8	71-127
Chloroform	47.4		2.0	50.0	94.7	81-121
1,2-Dichloroethane	47.3		2.0	50.0	94.6	80-121
1,1,1-Trichloroethane	49.0		2.0	50.0	97.9	80-120
Cyclohexane	50.6		2.0	50.0	101	77-120
Carbon tetrachloride	46.0		2.0	50.0	92.0	78-121
Benzene	46.8		2.0	50.0	93.6	81-119
Trichloroethene	45.3		2.0	50.0	90.5	80-120
Methylcyclohexane	48.6		2.0	50.0	97.2	79-122

**Region 6 Laboratory**10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248**Volatiles by EPA Method 8260C - GC/MS - Quality Control****Batch: B8C1303****Sample Type: Liquid****LCS (B8C1303-BS1)**

Prepared: 3/2/2018 Analyzed: 3/2/2018

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
1,2-Dichloropropane	51.1		2.0	50.0	102	81-121
Bromodichloromethane	49.8		2.0	50.0	99.7	80-121
cis-1,3-Dichloropropene	50.8		2.0	50.0	102	79-119
trans-1,3-Dichloropropene	53.8		2.0	50.0	108	78-119
1,1,2-Trichloroethane	50.3		2.0	50.0	101	80-120
Dibromochloromethane	49.5		2.0	50.0	99.0	80-118
Bromoform	51.2		2.0	50.0	102	79-119
4-Methyl-2-pentanone	52.0		5.0	50.0	104	77-121
Toluene	45.3		2.0	50.0	90.6	81-118
Tetrachloroethene	43.1		2.0	50.0	86.2	80-120
2-Hexanone	54.7		5.0	50.0	109	77-122
1,2-Dibromoethane	46.8		2.0	50.0	93.6	81-118
Chlorobenzene	43.7		2.0	50.0	87.4	81-118
Ethylbenzene	45.5		2.0	50.0	91.0	80-118
meta-/para-Xylene	91.3		4.0	100	91.3	81-117
ortho-Xylene	46.3		2.0	50.0	92.6	81-118
Styrene	47.7		2.0	50.0	95.4	79-118
Isopropylbenzene	48.8		2.0	50.0	97.6	74-124
1,1,2,2-Tetrachloroethane	50.0		2.0	50.0	99.9	79-119
1,3-Dichlorobenzene	45.2		2.0	50.0	90.4	81-118
1,4-Dichlorobenzene	45.0		2.0	50.0	90.0	80-117
1,2-Dichlorobenzene	45.3		2.0	50.0	90.6	79-119
1,2-Dibromo-3-chloropropane	49.8		5.0	50.0	99.7	77-123
1,2,4-Trichlorobenzene	47.0		5.0	50.0	93.9	78-128

TCLP Volatiles by EPA Method 1311/8260C - GC/MS - Quality Control



Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

TCLP Volatiles by EPA Method 1311/8260C - GC/MS - Quality Control

Batch: B8C1304

Sample Type: Liquid

Blank (B8C1304-BLK1)

Prepared: 3/2/2018 Analyzed: 3/2/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>1,2-Dichloroethane-d4</i>	47.6		50.0	95.1	86-117
<i>Toluene-d8</i>	46.3		50.0	92.7	85-113
<i>4-Bromofluorobenzene</i>	46.6		50.0	93.3	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Vinyl chloride	U		2.0
1,1-Dichloroethene	U		2.0
2-Butanone	U		5.0
Chloroform	U		2.0
1,2-Dichloroethane	U		2.0
Carbon tetrachloride	U		2.0
Benzene	U		2.0
Trichloroethene	U		2.0
Tetrachloroethene	U		2.0
Chlorobenzene	U		2.0
1,4-Dichlorobenzene	U		2.0



Environmental Protection Agency

Region 6 Laboratory

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TCLP Volatiles by EPA Method 1311/8260C - GC/MS - Quality Control

Batch: B8C1304

Sample Type: Liquid

Blank (B8C1304-BLK2)

Prepared: 3/5/2018 Analyzed: 3/5/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>1,2-Dichloroethane-d4</i>	46.4		50.0	92.8	86-117
<i>Toluene-d8</i>	45.8		50.0	91.7	85-113
<i>4-Bromofluorobenzene</i>	46.0		50.0	92.0	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Vinyl chloride	U		2.0
1,1-Dichloroethene	U		2.0
2-Butanone	U		5.0
Chloroform	U		2.0
1,2-Dichloroethane	U		2.0
Carbon tetrachloride	U		2.0
Benzene	U		2.0
Trichloroethene	U		2.0
Tetrachloroethene	U		2.0
Chlorobenzene	U		2.0
1,4-Dichlorobenzene	U		2.0



Environmental Protection Agency

Region 6 Laboratory

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TCLP Volatiles by EPA Method 1311/8260C - GC/MS - Quality Control

Batch: B8C1304

Sample Type: Liquid

Blank (B8C1304-BLK3)

Prepared: 3/6/2018 Analyzed: 3/6/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>1,2-Dichloroethane-d4</i>	47.5		50.0	94.9	86-117
<i>Toluene-d8</i>	48.4		50.0	96.7	85-113
<i>4-Bromofluorobenzene</i>	48.8		50.0	97.6	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Vinyl chloride	U		2.0
1,1-Dichloroethene	U		2.0
2-Butanone	U		5.0
Chloroform	U		2.0
1,2-Dichloroethane	U		2.0
Carbon tetrachloride	U		2.0
Benzene	U		2.0
Trichloroethene	U		2.0
Tetrachloroethene	U		2.0
Chlorobenzene	U		2.0
1,4-Dichlorobenzene	U		2.0



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TCLP Volatiles by EPA Method 1311/8260C - GC/MS - Quality Control

Batch: B8C1304

Sample Type: Liquid

Blank (B8C1304-BLK4)

Prepared: 3/7/2018 Analyzed: 3/7/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>1,2-Dichloroethane-d4</i>	45.0		50.0	89.9	86-117
<i>Toluene-d8</i>	45.7		50.0	91.4	85-113
<i>4-Bromofluorobenzene</i>	45.6		50.0	91.2	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Vinyl chloride	U		2.0
1,1-Dichloroethene	U		2.0
2-Butanone	U		5.0
Chloroform	U		2.0
1,2-Dichloroethane	U		2.0
Carbon tetrachloride	U		2.0
Benzene	U		2.0
Trichloroethene	U		2.0
Tetrachloroethene	U		2.0
Chlorobenzene	U		2.0
1,4-Dichlorobenzene	U		2.0



Region 6 Laboratory

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TCLP Volatiles by EPA Method 1311/8260C - GC/MS - Quality Control

Batch: B8C1304

Sample Type: Liquid

LCS (B8C1304-BS1)

Prepared: 3/2/2018 Analyzed: 3/2/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>1,2-Dichloroethane-d4</i>	50.1		50.0	100	86-117
<i>Toluene-d8</i>	47.0		50.0	94.0	85-113
<i>4-Bromofluorobenzene</i>	49.6		50.0	99.3	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Vinyl chloride	51.2		2.0	50.0	102	76-130
1,1-Dichloroethene	49.8		2.0	50.0	99.7	76-127
2-Butanone	46.2		5.0	50.0	92.4	71-127
Chloroform	48.4		2.0	50.0	96.7	81-121
1,2-Dichloroethane	48.5		2.0	50.0	97.0	80-121
Carbon tetrachloride	46.2		2.0	50.0	92.5	78-121
Benzene	47.8		2.0	50.0	95.6	81-119
Trichloroethene	45.9		2.0	50.0	91.8	80-120
Tetrachloroethene	43.7		2.0	50.0	87.4	80-120
Chlorobenzene	44.7		2.0	50.0	89.3	81-118
1,4-Dichlorobenzene	45.8		2.0	50.0	91.6	80-117



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Region 6 Laboratory

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TCLP Volatiles by EPA Method 1311/8260C - GC/MS - Quality Control

Batch: B8C1304

Sample Type: Liquid

LCS (B8C1304-BS2)

Prepared: 3/5/2018 Analyzed: 3/5/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>1,2-Dichloroethane-d4</i>	47.9		50.0	95.8	86-117
<i>Toluene-d8</i>	47.9		50.0	95.8	85-113
<i>4-Bromofluorobenzene</i>	47.9		50.0	95.9	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Vinyl chloride	49.6		2.0	50.0	99.3	76-130
1,1-Dichloroethene	48.7		2.0	50.0	97.4	76-127
2-Butanone	42.5		5.0	50.0	85.0	71-127
Chloroform	47.5		2.0	50.0	95.0	81-121
1,2-Dichloroethane	46.9		2.0	50.0	93.8	80-121
Carbon tetrachloride	45.5		2.0	50.0	91.0	78-121
Benzene	47.2		2.0	50.0	94.5	81-119
Trichloroethene	46.2		2.0	50.0	92.5	80-120
Tetrachloroethene	43.0		2.0	50.0	86.0	80-120
Chlorobenzene	44.3		2.0	50.0	88.6	81-118
1,4-Dichlorobenzene	45.0		2.0	50.0	90.0	80-117



Region 6 Laboratory

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TCLP Volatiles by EPA Method 1311/8260C - GC/MS - Quality Control

Batch: B8C1304

Sample Type: Liquid

LCS (B8C1304-BS3)

Prepared: 3/6/2018 Analyzed: 3/6/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>1,2-Dichloroethane-d4</i>	44.9		50.0	89.8	86-117
<i>Toluene-d8</i>	46.8		50.0	93.7	85-113
<i>4-Bromofluorobenzene</i>	47.0		50.0	94.0	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Vinyl chloride	50.0		2.0	50.0	100	76-130
1,1-Dichloroethene	50.9		2.0	50.0	102	76-127
2-Butanone	43.6		5.0	50.0	87.3	71-127
Chloroform	49.0		2.0	50.0	97.9	81-121
1,2-Dichloroethane	46.9		2.0	50.0	93.8	80-121
Carbon tetrachloride	47.0		2.0	50.0	94.1	78-121
Benzene	49.0		2.0	50.0	97.9	81-119
Trichloroethene	49.9		2.0	50.0	99.8	80-120
Tetrachloroethene	45.9		2.0	50.0	91.7	80-120
Chlorobenzene	46.9		2.0	50.0	93.8	81-118
1,4-Dichlorobenzene	47.9		2.0	50.0	95.8	80-117

**Region 6 Laboratory**10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248**TCLP Volatiles by EPA Method 1311/8260C - GC/MS - Quality Control****Batch: B8C1304****Sample Type: Liquid****LCS (B8C1304-BS4)**

Prepared: 3/7/2018 Analyzed: 3/7/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>1,2-Dichloroethane-d4</i>	45.5		50.0	91.0	86-117
<i>Toluene-d8</i>	47.6		50.0	95.1	85-113
<i>4-Bromofluorobenzene</i>	48.0		50.0	95.9	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Vinyl chloride	50.3		2.0	50.0	101	76-130
1,1-Dichloroethene	50.9		2.0	50.0	102	76-127
2-Butanone	43.5		5.0	50.0	87.0	71-127
Chloroform	48.7		2.0	50.0	97.4	81-121
1,2-Dichloroethane	46.6		2.0	50.0	93.1	80-121
Carbon tetrachloride	46.6		2.0	50.0	93.1	78-121
Benzene	48.7		2.0	50.0	97.5	81-119
Trichloroethene	49.1		2.0	50.0	98.2	80-120
Tetrachloroethene	45.0		2.0	50.0	90.1	80-120
Chlorobenzene	46.5		2.0	50.0	93.1	81-118
1,4-Dichlorobenzene	47.5		2.0	50.0	95.0	80-117



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TCLP Volatiles by EPA Method 1311/8260C - GC/MS - Quality Control

Batch: B8C1304

Sample Type: Liquid

Matrix Spike (B8C1304-MS1)

Source: 1711006-06

Prepared: 3/7/2018 Analyzed: 3/7/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	47.2		50.0	94.4	86-117
Toluene-d8	48.7		50.0	97.4	85-113
4-Bromofluorobenzene	49.2		50.0	98.4	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Vinyl chloride	9,990		400	10,000		99.9	75-123
1,1-Dichloroethene	10,100		400	10,000		101	72-134
2-Butanone	20,700		1,000	10,000	10,800	99.3	51-139
Chloroform	9,760		400	10,000		97.6	75-125
1,2-Dichloroethane	9,430		400	10,000		94.3	73-126
Carbon tetrachloride	9,450		400	10,000		94.5	74-123
Benzene	10,000		400	10,000	106	99.0	79-122
Trichloroethene	10,100		400	10,000		101	79-126
Tetrachloroethene	9,120		400	10,000	62.0	90.6	80-115
Chlorobenzene	9,460		400	10,000		94.6	82-121
1,4-Dichlorobenzene	9,650		400	10,000		96.5	79-116



Environmental Protection Agency

Region 6 Laboratory

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TCLP Volatiles by EPA Method 1311/8260C - GC/MS - Quality Control

Batch: B8C1304

Sample Type: Liquid

Matrix Spike Dup (B8C1304-MSD1)

Source: 1711006-06

Prepared: 3/7/2018 Analyzed: 3/7/2018

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	42.9		50.0	85.8 #	86-117
Toluene-d8	44.9		50.0	89.9	85-113
4-Bromofluorobenzene	45.1		50.0	90.3	73-115

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Vinyl chloride	9,810		400	10,000		98.1	75-123	1.82	16
1,1-Dichloroethene	9,960		400	10,000		99.6	72-134	1.73	21
2-Butanone	20,300		1,000	10,000	10,800	95.6	51-139	1.80	21
Chloroform	9,630		400	10,000		96.3	75-125	1.38	13
1,2-Dichloroethane	9,210		400	10,000		92.1	73-126	2.34	13
Carbon tetrachloride	9,320		400	10,000		93.2	74-123	1.32	14
Benzene	9,910		400	10,000	106	98.0	79-122	1.02	16
Trichloroethene	9,960		400	10,000		99.6	79-126	1.10	14
Tetrachloroethene	9,060		400	10,000	62.0	90.0	80-115	0.68	12
Chlorobenzene	9,280		400	10,000		92.8	82-121	1.94	10
1,4-Dichlorobenzene	9,510		400	10,000		95.1	79-116	1.46	11

Metals by EPA Method 6010D - ICP - Quality Control



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010D - ICP - Quality Control

Batch: B8B2801

Sample Type: Liquid

Blank (B8B2801-BLK1)

Prepared: 2/28/2018 Analyzed: 3/7/2018

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Arsenic	U		100
Barium	U		10.0
Cadmium	U		5.0
Chromium	U		10.0
Lead	U		30.0
Selenium	U		100
Silver	U		10.0



Environmental Protection Agency
Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010D - ICP - Quality Control

Batch: B8B2801

Sample Type: Liquid

LCS (B8B2801-BS1)

Prepared: 2/28/2018 Analyzed: 3/7/2018

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Arsenic	2,020		100	2,000	101	75-125
Barium	2,050		10.0	2,000	103	75-125
Cadmium	51.2		5.0	50.0	102	75-125
Chromium	408		10.0	400	102	75-125
Lead	405		30.0	400	101	75-125
Selenium	1,010		100	1,000	101	75-125
Silver	51.3		10.0	50.0	103	75-125



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010D - ICP - Quality Control

Batch: B8B2801

Sample Type: Liquid

Matrix Spike (B8B2801-MS1)

Source: 1711006-06

Prepared: 2/28/2018 Analyzed: 3/7/2018

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Arsenic	1,880		100	2,000		93.8	75-125
Barium	2,370		10.0	2,000	310	103	75-125
Cadmium	59.7		5.0	50.0		119	75-125
Chromium	708		10.0	400	242	116	75-125
Lead	472		30.0	400	33.0	110	75-125
Selenium	2,180		100	1,000	463	171 #	75-125
Silver	80.5		10.0	50.0	40.0	81.0	75-125



Environmental Protection Agency
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Metals by EPA Method 6010D - ICP - Quality Control

Batch: B8B2801

Sample Type: Liquid

Matrix Spike Dup (B8B2801-MSD1)

Source: 1711006-06

Prepared: 2/28/2018 Analyzed: 3/7/2018

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Arsenic	1,970		100	2,000		98.6	75-125	5.00	20
Barium	2,430		10.0	2,000	310	106	75-125	2.56	20
Cadmium	61.5		5.0	50.0		123	75-125	3.03	20
Chromium	714		10.0	400	242	118	75-125	0.95	20
Lead	489		30.0	400	33.0	114	75-125	3.58	20
Selenium	2,210		100	1,000	463	175 #	75-125	1.52	20
Silver	80.4		10.0	50.0	40.0	80.8	75-125	0.14	20

Metals by EPA Method 7470A/7471B - CVAAS - Quality Control



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Metals by EPA Method 7470A/7471B - CVAAS - Quality Control

Batch: B8C0801

Sample Type: Liquid

Blank (B8C0801-BLK1)

Prepared: 3/8/2018 Analyzed: 3/8/2018

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
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Mercury	U		0.200
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Metals by EPA Method 7470A/7471B - CVAAS - Quality Control

Batch: B8C0801

Sample Type: Liquid

LCS (B8C0801-BS1)

Prepared: 3/8/2018 Analyzed: 3/8/2018

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Mercury	1.98		0.200	2.00	99.2	85-115



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Metals by EPA Method 7470A/7471B - CVAAS - Quality Control

Batch: B8C0801

Sample Type: Liquid

Matrix Spike (B8C0801-MS1)

Source: 1711006-06RE1

Prepared: 3/8/2018 Analyzed: 3/8/2018

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Mercury	275		25.0	250	54.0	88.2	75-125



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Metals by EPA Method 7470A/7471B - CVAAS - Quality Control

Batch: B8C0801

Sample Type: Liquid

Matrix Spike Dup (B8C0801-MSD1)

Source: 1711006-06RE1

Prepared: 3/8/2018 Analyzed: 3/8/2018

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Mercury	269		25.0	250	54.0	86.0	75-125	2.02	20

Ignitability by EPA Method 1020B - Quality Control



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Ignitability by EPA Method 1020B - Quality Control

Batch: B8A0501

Sample Type: Liquid

Duplicate (B8A0501-DUP1)

Source: 1711006-06

Prepared: 1/5/2018 Analyzed: 1/5/2018

Targets

ANALYTE	Result °C	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	
						RPD	Limit
No Flash @	60				60	0.00	20



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SURROGATE SUMMARY REPORT

VOA 8260C Routine List

Liquid

LAB NUMBER	1,2-DCE-d4	TOL-d8	4-BFB
1711006-10	99.1	99.0	99.2
B8C1303-BLK1	93.8	92.1	92.9
B8C1303-BS1	98.8	93.4	98.8

QC LIMITS

1,2-DCE-d4	=	1,2-Dichloroethane-d4	86 - 117
TOL-d8	=	Toluene-d8	85 - 113
4-BFB	=	4-Bromofluorobenzene	73 - 115

VOA TCLP 1311/8260C

Liquid

LAB NUMBER	1,2-DCE-d4	TOL-d8	4-BFB
1711006-01	93.9	92.6	92.9
1711006-02	97.2	94.4	96.9
1711006-03	88.0	91.4	92.2
1711006-04	92.8	92.8	95.6
1711006-05	91.4	93.5	96.2
1711006-06	89.7	92.6	93.8
1711006-07	87.7	90.5	92.9
1711006-08	94.7	96.9	97.6
1711006-09	94.9	88.9	94.5
B8C1304-BLK1	95.1	92.7	93.3
B8C1304-BLK2	92.8	91.7	92.0
B8C1304-BLK3	94.9	96.7	97.6
B8C1304-BLK4	89.9	91.4	91.2
B8C1304-BS1	100	94.0	99.3
B8C1304-BS2	95.8	95.8	95.9
B8C1304-BS3	89.8	93.7	94.0
B8C1304-BS4	91.0	95.1	95.9
B8C1304-MS1	94.4	97.4	98.4
B8C1304-MSD1	85.8 #	89.9	90.3



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SURROGATE SUMMARY REPORT

VOA TCLP 1311/8260C

<u>QC LIMITS</u>		
1,2-DCE-d4	=	1,2-Dichloroethane-d4
TOL-d8	=	Toluene-d8
4-BFB	=	4-Bromofluorobenzene

86 - 117

85 - 113

73 - 115



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Notes and Definitions

K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
B	Blank Related - The concentration found in the sample was less than 10X the concentration found in the associated extraction, digestion and/or analysis blank. Presence in the sample is therefore suspect.
A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
ABN	Acid Base Neutrals (Semivolatile Compounds)
AES	Atomic Emission Spectrometer
BS	Blank Spike
CVAA	Cold Vapor Atomic Absorption
DCB	Decachlorobiphenyl
ECD	Electron Capture Detector
GC	Gas Chromatograph
ICP	Inductively Coupled Plasma
ISTD	Internal Standard
LCS	Laboratory Control Sample
MS	Mass Spectrometer
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
PCB	Polychlorinatedbiphenyl



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RL	Reporting Limit
RT	Retention Time
RPD	Relative Percent Difference
TCLP	Toxicity Characteristic Leaching Procedure
TCMX	Tetrachloro-meta-xylene
U	Undetected
VOA	Volatile Organic Analysis
#	Out of QC limits
>LR	The result was greater than the linear range.

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

**OFFICIAL
CHAIN OF CUSTODY RECORD**

PROJ. NO.	PROJECT NAME	SAMPLERS: (Signature)		NO. OF CONTAINERS	REMARKS	
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	
25376	11/14/17	3:51pm		X		
25377	11/14/17			X		
25378	11/14/17	3:13pm		X		
TANK 15	11/14/17	3:43pm		X		
TANK 14	11/14/17	3:51pm		X		
TANK 13	11/14/17	3:52pm		X		
TANK 21	11/14/17	4:00pm		X		
TOK 6	11/14/17	4:28pm		X		
Drum 10	11/14/17	4:45pm		X		
Total	11/14/17	4:00pm		X		
Relinquished by: (Signature) _____ Date / Time _____ Received by: (Signature) _____ Date / Time _____ Relinquished by: (Signature) _____ Date / Time _____ Received by: (Signature) _____ Date / Time _____ Relinquished by: (Signature) _____ Date / Time _____ Received by: (Signature) _____ Date / Time _____						

Distribution: White Accompanies Shipment; Pink to Coordinator Field Files;

EPA 7500-53
(11/96)

Green to Report: Yellow Returns with Warrant

Sp1 Temp = 20°C
Correction factor = -1.5

6-08339

OFFICIAL

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
SAMPLERS: (Signature)							
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION		
Sta A	11/8	1030		✓	EQUIP BLANK	✓	930
Sta A	11/8	1030		✓	TRIP BLANK	✓	
Sta A	11/8	1030		✓	EQUIP BLANK	✓	930
Sta A	11/12	1204		✓	TRIP BLANK	✓	PR 11.16.17
Sta A	11/12	1204		✓	TRIP BLANK	✓	PR 11.16.17
Relinquished by: (Signature) <i>Paulle</i> Relinquished by: (Signature) Relinquished by: (Signature) Date / Time 11-16-17 1155 Date / Time Date / Time Received by: (Signature) Received by: (Signature) Received by: (Signature) Date / Time Date / Time Date / Time							
Shipped by: <i>Driver in alt vehicle</i>							

Distribution: White Accompanies Shipment; Pink to Coordinator Field Files;

Green to Report; Yellow Returns with Warrant

EPA 7500-53
(11/05)

Spl. Temp = 2°C
Collection factor = 1

6 - 08338