TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-107953-1
Client Project/Site: Spent Acid/Base

For:
CB&I Federal Services LLC
10777 Westheimer Road
Suite 170
Houston, Texas 77042

Attn: Leroy Cassidey

Dean A. Joiner

Authorized for release by:
3/26/2015 9:11:58 PM

Dean Joiner, Project Manager II
(713)690-4444
dean.joiner@testamericainc.com

9848060

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Method Summary 6
Sample Summary 7
Client Sample Results 8
Definitions/Glossary 26
Surrogate Summary 28
QC Sample Results 32
QC Association Summary 60
Lab Chronicle 68
Certification Summary 73
Chain of Custody 76
Receipt Checklists 78

Job ID: 600-107953-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-107953-1

Comments
No additional comments.

Receipt
The samples were received on 3/11/2015 12:42 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.5º C and 1.7º C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for batch 135966 recovered outside control limits for the following analyte: 1,1-dichloroethene. These analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Internal standard (ISTD) response for TBA d9 for the following sample(s) was outside acceptance criteria: (600-107953-5), 18 Base Solid (600-107953-5). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method(s) 8260B: The method blank for batch 600-157974 contained chloroform above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: Surrogate (Dibromofluoromethane) recovery for the following sample(s) was outside control limits: 18 Base Solid (600-107953-5). The sample is basic, therefore, re-analysis was not performed.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 18 Base Solid (600-107953-5). Elevated reporting limits (RLs) are provided. The sample is strong basic.

Method(s) 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 600-157996 recovered outside control limits for the following analyte: Carbon tetrachloride. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for batch 600-157996 recovered outside control limits for the following analyte: 1,1,1-Trichloroethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 600-157996 recovered above the upper control limit for Carbon tetrachloride. 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 600-157996/2).

Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: 10 Acid OXI (600-107953-1), 12 Acid OXI (600-107953-2), 17 Base LIQ (600-107953-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: 16 Base LIQ (600-107953-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Surrogate recovery for the following sample was outside control limits: 16 Base LIQ (600-107953-3). Surrogate diluted out.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C: The laboratory control sample (LCS) for batch 157871 recovered outside control limits for the following analyte: 2,2'-oxybis[1-chloropropane]. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Job ID: 600-107953-1 (Continued)

Laboratory: TestAmerica Houston (Continued)

Method(s) 8270C: The continuing calibration verification (CCV) associated with batch157980 recovered above the upper control limit for 2,2'-oxybis[1-chloropropane]. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: 10 Acid OXI (600-107953-7), 12 Acid OXI (600-107953-8), 16 Base LIQ (600-107953-9), 17 Base LIQ (600-107953-4). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following sample(s) required a dilution due to the nature of the sample matrix: 16 Base LIQ (600-107953-9), 17 Base LIQ (600-107953-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: Internal standard responses were outside of acceptance limits for the following sample(s): 17 Base LIQ (600-107953-4). The sample(s) shows evidence of matrix interference.

Method(s) 8270C: Surrogate recovery for the following sample(s) was outside control limits: 10 Acid OXI (600-107953-7), 12 Acid OXI (600-107953-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270C: The matrix spike (MS) for batch 157841 exceeded control limits for the following analyte: Benzidine. Note that this analyte is a known poor performer when analyzed using this method.

Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch 157841 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries was within acceptance limits.

Method(s) 8270C: The following sample(s) required a dilution due to the nature of the sample matrix: 18 Base Solid (600-107953-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: 18 Base Solid (600-107953-5). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: 16 Base LIQ (600-107953-9). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following sample(s) required a dilution due to the nature of the sample matrix: 16 Base LIQ (600-107953-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: Spike compounds were inadvertently omitted during the extraction process for the matrix spike (MS) and pH was not change to acid; therefore, matrix spike recoveries are unavailable for batch 157984 and MS was not reported. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: 18 Base Solid (600-107953-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method(s) 9056: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 250088 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9056: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: (600-107953-1), 10 Acid OXI (600-107953-1). Elevated reporting limits (RLs) are provided.

Job ID: 600-107953-1 (Continued)

Laboratory: TestAmerica Houston (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) TX 1005: The following sample(s) was diluted due to the nature of the sample matrix: 18 Base Solid (600-107953-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 7470A: The matrix spike (MS) recoveries for batch 158089 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The leachate blank for batch 158077 contained Silver and Barium above the method detection limit. These target analytes concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 4500 P E: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: 18 Base Solid (600-107953-5). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 158011 were outside control limits for Nitrate. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 300.0: The following sample(s) was diluted due to the nature of the sample matrix: High concentrations of Sulfate. Elevated reporting limits (RLs) are provided.

The pH in sample(s) 12 Acid OXI (600-107953-2) could not be verified due to matrix interference.

The TSS analysis is not appropriate for this sample matrix due to the samples being waste. Therefore, it was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Geotechnical
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Industrial Hygiene
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3546: Due to the matrix, the following sample(s) could not be concentrated to the final method required volume: 18 Base Solid (600-107953-5). The reporting limits (RLs) are elevated proportionately.

Method(s) 3510C: Samples were "spent acid". Had to use very limited sample due to matrix.

10 Acid OXI (600-107953-7), 12 Acid OXI (600-107953-8), 16 Base LIQ (600-107953-9)

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 158120.

Method(s) 3510C: Sample was recive with a ph of 10 extracted as basic first then change to acidic .

(600-107953-5 MS), 18 Base Solid (600-107953-5)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL HOU
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
6010B	Metals (ICP)	SW846	TAL NSH
6010B	Metals (ICP)	SW846	TAL HOU
7470A	Mercury (CVAA)	SW846	TAL HOU
7471A	Mercury (CVAA)	SW846	TAL HOU
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL HOU
7.4.4	Reactive Sulfide	EPA	TAL HOU
9012	Cyanide, Reactive	SW846	TAL HOU
9023	Organic Halides, Extractable (EOX)	SW846	TAL CAN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	TAL HOU
9040B	pH	SW846	TAL HOU
9045C	Corrosivity	SW846	TAL HOU
9056	Total Halogens(Bomb Calorimeter followed by IC)	SW846	TAL PEN
D1796	Water and Sediment in Fuel Oils	ASTM	TAL CC
D92	Flashpoint	ASTM	TAL HOU
SM 4500 P E	Phosphorus	SM	TAL HOU

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673
TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-107953-1	10 Acid OXI	Waste	03/11/15 10:10	03/11/15 12:42
600-107953-2	12 Acid OXI	Waste	03/11/15 10:20	03/11/15 12:42
600-107953-3	16 Base LIQ	Waste	03/11/15 10:01	03/11/15 12:42
600-107953-4	17 Base LIQ	Waste	03/11/15 10:08	03/11/15 12:42
600-107953-5	18 Base Solid	Solid	03/11/15 09:45	03/11/15 12:42
600-107953-7	10 Acid OXI	Water	03/11/15 10:10	03/11/15 12:42
600-107953-8	12 Acid OXI	Water	03/11/15 10:20	03/11/15 12:42
600-107953-9	16 Base LIQ	Water	03/11/15 10:01	03/11/15 12:42

Client Sample Results

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 10 Acid OXI

Lab Sample ID: 600-107953-1

Date Collected: 03/11/15 10:10
Date Received: 03/11/15 12:42

Matrix: Waste

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.830	U	5.00	0.830	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Benzene	0.315	U	2.50	0.315	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Chlorobromomethane	0.890	U	2.50	0.890	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Bromoform	0.685	U	2.50	0.685	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Bromomethane	0.415	U	5.00	0.415	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
2-Butanone (MEK)	0.950	U	5.00	0.950	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Carbon disulfide	0.275	U	5.00	0.275	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Carbon tetrachloride	0.565	U *	2.50	0.565	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Dibromochloromethane	0.470	U	2.50	0.470	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Chlorobenzene	0.480	U	2.50	0.480	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Chloroethane	0.700	U	5.00	0.700	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Chloroform	0.330	U	2.50	0.330	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Chloromethane	0.830	U	5.00	0.830	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
1,1-Dichloroethane	0.435	U	2.50	0.435	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
1,2-Dichloroethane	0.450	U	2.50	0.450	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
1,1-Dichloroethene	0.610	U	2.50	0.610	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
cis-1,2-Dichloroethene	0.415	U	2.50	0.415	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
trans-1,2-Dichloroethene	0.570	U	2.50	0.570	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
1,2-Dichloropropane	0.355	U	2.50	0.355	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
cis-1,3-Dichloropropene	0.270	U	2.50	0.270	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
trans-1,3-Dichloropropene	0.290	U	2.50	0.290	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Ethylbenzene	0.510	U	2.50	0.510	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
2-Hexanone	0.505	U	5.00	0.505	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Methylene Chloride	1.10	U	5.00	1.10	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
4-Methyl-2-pentanone (MIBK)	0.735	U	5.00	0.735	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Styrene	0.355	U	2.50	0.355	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
1,1,2,2-Tetrachloroethane	0.435	U	2.50	0.435	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Tetrachloroethene	0.355	U	2.50	0.355	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Toluene	0.690	U	2.50	0.690	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
1,1,1-Trichloroethane	0.370	U *	2.50	0.370	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
1,1,2-Trichloroethane	0.365	U	20.0	0.365	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Trichloroethene	0.700	U	2.50	0.700	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Vinyl acetate	0.465	U	5.00	0.465	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Vinyl chloride	0.450	U	5.00	0.450	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
o-Xylene	0.565	U	2.50	0.565	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
m-Xylene & p-Xylene	0.760	U	2.50	0.760	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Xylenes, Total	0.565	U	2.50	0.565	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
Bromodichloromethane	0.330	U	2.50	0.330	mg/Kg		03/16/15 10:00	03/16/15 18:02	1
1,2-Dichloroethene, Total	0.950	U	5.00	0.950	mg/Kg		03/16/15 10:00	03/16/15 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*50 - 130*	*03/16/15 10:00*	*03/16/15 18:02*	*1*
Dibromofluoromethane	*113*		*68 - 140*	*03/16/15 10:00*	*03/16/15 18:02*	*1*
4-Bromofluorobenzene	*108*		*57 - 140*	*03/16/15 10:00*	*03/16/15 18:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*61 - 130*	*03/16/15 10:00*	*03/16/15 18:02*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	3.76	U	9.90	3.76	mg/Kg		03/16/15 14:32	03/17/15 02:52	1
>C12-C28	**22.1**		9.90	4.02	mg/Kg		03/16/15 14:32	03/17/15 02:52	1

Client Sample ID: 10 Acid OXI

Lab Sample ID: 600-107953-1

Date Collected: 03/11/15 10:10

Matrix: Waste

Date Received: 03/11/15 12:42

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
>C28-C35	4.02	U	9.90	4.02	mg/Kg		03/16/15 14:32	03/17/15 02:52	1
C6-C35	**22.1**		9.90	3.76	mg/Kg		03/16/15 14:32	03/17/15 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*122*		*70 - 130*	*03/16/15 14:32*	*03/17/15 02:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.67**	**J**	19.3	8.70	mg/Kg		03/16/15 11:10	03/16/15 23:58	10
Barium	**1.74**	**J**	1.93	1.55	mg/Kg		03/16/15 11:10	03/16/15 15:36	1
Cadmium	**8.96**		0.967	0.0967	mg/Kg		03/16/15 11:10	03/16/15 15:36	1
Chromium	**9.54**		0.967	0.580	mg/Kg		03/16/15 11:10	03/16/15 15:36	1
Lead	**3.75**		0.967	0.484	mg/Kg		03/16/15 11:10	03/16/15 15:36	1
Selenium	**12.0**	**J**	19.3	9.67	mg/Kg		03/16/15 11:10	03/16/15 23:58	10
Silver	4.84	U	9.67	4.84	mg/Kg		03/16/15 11:10	03/16/15 23:58	10
Sodium	96.7	U	193	96.7	mg/Kg		03/16/15 11:10	03/16/15 15:36	1
Sulfur	**60300**		48.4	19.3	mg/Kg		03/16/15 11:10	03/16/15 23:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>186**		1.00	1.00	Degrees F			03/17/15 07:35	1
Cyanide, Reactive	0.0845	U	0.247	0.0845	mg/Kg		03/17/15 09:00	03/17/15 16:40	1
Sulfide, Reactive	13.8	U	49.4	13.8	mg/Kg		03/17/15 09:00	03/17/15 16:30	1
pH	**0.900**		0.0100	0.0100	SU			03/17/15 13:30	1
Total Halogens	**28800**		1290	1290	mg/Kg		03/16/15 14:08	03/18/15 11:58	10
Chloride	**28800**		1290	1290	mg/Kg		03/16/15 14:08	03/18/15 11:58	10
Fluoride	25.9	U	25.9	25.9	mg/Kg		03/16/15 14:08	03/17/15 18:46	1
Bromide	129	U	129	129	mg/Kg		03/16/15 14:08	03/17/15 18:46	1
Percent Water	**100**				%			03/26/15 15:00	1
Phosphorus as PO4	1.28	U	4.90	1.28	mg/Kg		03/16/15 06:05	03/16/15 06:17	1

Client Sample ID: 12 Acid OXI

Lab Sample ID: 600-107953-2

Date Collected: 03/11/15 10:20

Matrix: Waste

Date Received: 03/11/15 12:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.830	U	5.00	0.830	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Benzene	0.315	U	2.50	0.315	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Chlorobromomethane	0.890	U	2.50	0.890	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Bromoform	0.685	U	2.50	0.685	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Bromomethane	0.415	U	5.00	0.415	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
2-Butanone (MEK)	0.950	U	5.00	0.950	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Carbon disulfide	0.275	U	5.00	0.275	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Carbon tetrachloride	0.565	U *	2.50	0.565	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Dibromochloromethane	0.470	U	2.50	0.470	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Chlorobenzene	0.480	U	2.50	0.480	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Chloroethane	0.700	U	5.00	0.700	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Chloroform	0.330	U	2.50	0.330	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Chloromethane	0.830	U	5.00	0.830	mg/Kg		03/16/15 10:00	03/16/15 18:26	1

Client Sample Results

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 12 Acid OXI

Date Collected: 03/11/15 10:20
Date Received: 03/11/15 12:42

Lab Sample ID: 600-107953-2

Matrix: Waste

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.435	U	2.50	0.435	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
1,2-Dichloroethane	0.450	U	2.50	0.450	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
1,1-Dichloroethene	0.610	U	2.50	0.610	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
cis-1,2-Dichloroethene	0.415	U	2.50	0.415	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
trans-1,2-Dichloroethene	0.570	U	2.50	0.570	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
1,2-Dichloropropane	0.355	U	2.50	0.355	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
cis-1,3-Dichloropropene	0.270	U	2.50	0.270	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
trans-1,3-Dichloropropene	0.290	U	2.50	0.290	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Ethylbenzene	0.510	U	2.50	0.510	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
2-Hexanone	0.505	U	5.00	0.505	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Methylene Chloride	1.10	U	5.00	1.10	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
4-Methyl-2-pentanone (MIBK)	0.735	U	5.00	0.735	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Styrene	0.355	U	2.50	0.355	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
1,1,2,2-Tetrachloroethane	0.435	U	2.50	0.435	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Tetrachloroethene	0.355	U	2.50	0.355	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Toluene	0.690	U	2.50	0.690	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
1,1,1-Trichloroethane	0.370	U *	2.50	0.370	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
1,1,2-Trichloroethane	0.365	U	20.0	0.365	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Trichloroethene	0.700	U	2.50	0.700	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Vinyl acetate	0.465	U	5.00	0.465	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Vinyl chloride	0.450	U	5.00	0.450	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
o-Xylene	0.565	U	2.50	0.565	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
m-Xylene & p-Xylene	0.760	U	2.50	0.760	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Xylenes, Total	0.565	U	2.50	0.565	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
Bromodichloromethane	0.330	U	2.50	0.330	mg/Kg		03/16/15 10:00	03/16/15 18:26	1
1,2-Dichloroethene, Total	0.950	U	5.00	0.950	mg/Kg		03/16/15 10:00	03/16/15 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*50 - 130*	*03/16/15 10:00*	*03/16/15 18:26*	*1*
Dibromofluoromethane	*106*		*68 - 140*	*03/16/15 10:00*	*03/16/15 18:26*	*1*
4-Bromofluorobenzene	*96*		*57 - 140*	*03/16/15 10:00*	*03/16/15 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*61 - 130*	*03/16/15 10:00*	*03/16/15 18:26*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	38.0	U	100	38.0	mg/Kg		03/12/15 10:04	03/12/15 18:44	1
>C12-C28	**383**		100	40.6	mg/Kg		03/12/15 10:04	03/12/15 18:44	1
>C28-C35	**373**		100	40.6	mg/Kg		03/12/15 10:04	03/12/15 18:44	1
C6-C35	**756**		100	38.0	mg/Kg		03/12/15 10:04	03/12/15 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*70 - 130*	*03/12/15 10:04*	*03/12/15 18:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.59	U	19.1	8.59	mg/Kg		03/16/15 11:10	03/17/15 00:07	10
Barium	**9.98**		1.91	1.53	mg/Kg		03/16/15 11:10	03/16/15 15:41	1
Cadmium	**9.33**		0.954	0.0954	mg/Kg		03/16/15 11:10	03/16/15 15:41	1
Chromium	**123**		0.954	0.573	mg/Kg		03/16/15 11:10	03/16/15 15:41	1
Lead	**53.9**		0.954	0.477	mg/Kg		03/16/15 11:10	03/16/15 15:41	1

Client Sample ID: 12 Acid OXI

Lab Sample ID: 600-107953-2

Date Collected: 03/11/15 10:20
Date Received: 03/11/15 12:42
Matrix: Waste

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**9.92**	**J**	19.1	9.54	mg/Kg		03/16/15 11:10	03/17/15 00:07	10
Silver	**18.1**		9.54	4.77	mg/Kg		03/16/15 11:10	03/17/15 00:07	10
Sodium	**213**		191	95.4	mg/Kg		03/16/15 11:10	03/16/15 15:41	1
Sulfur	**58.2**		47.7	19.1	mg/Kg		03/16/15 11:10	03/17/15 00:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>186**		1.00	1.00	Degrees F			03/17/15 07:35	1
Cyanide, Reactive	0.0854	U	0.250	0.0854	mg/Kg		03/17/15 09:00	03/17/15 16:41	1
Sulfide, Reactive	**30.0**	**J**	50.0	14.0	mg/Kg		03/17/15 09:00	03/17/15 16:30	1
Total Halogens	130	U	130	130	mg/Kg		03/16/15 14:15	03/17/15 19:09	1
Chloride	130	U	130	130	mg/Kg		03/16/15 14:15	03/17/15 19:09	1
Fluoride	26.0	U	26.0	26.0	mg/Kg		03/16/15 14:15	03/17/15 19:09	1
Bromide	130	U	130	130	mg/Kg		03/16/15 14:15	03/17/15 19:09	1
Percent Water	**92.0**				%			03/17/15 15:00	1
Phosphorus as PO4	**86.4**		5.10	1.33	mg/Kg		03/16/15 06:05	03/16/15 06:17	1

Client Sample ID: 16 Base LIQ

Lab Sample ID: 600-107953-3

Date Collected: 03/11/15 10:01
Date Received: 03/11/15 12:42
Matrix: Waste

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.32	U	20.0	3.32	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Benzene	1.26	U	10.0	1.26	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Chlorobromomethane	3.56	U	10.0	3.56	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Bromoform	2.74	U	10.0	2.74	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Bromomethane	1.66	U	20.0	1.66	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
2-Butanone (MEK)	3.80	U	20.0	3.80	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Carbon disulfide	1.10	U	20.0	1.10	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Carbon tetrachloride	2.26	U *	10.0	2.26	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Dibromochloromethane	1.88	U	10.0	1.88	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Chlorobenzene	1.92	U	10.0	1.92	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Chloroethane	2.80	U	20.0	2.80	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Chloroform	1.32	U	10.0	1.32	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Chloromethane	3.32	U	20.0	3.32	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
1,1-Dichloroethane	1.74	U	10.0	1.74	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
1,2-Dichloroethane	1.80	U	10.0	1.80	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
1,1-Dichloroethene	2.44	U	10.0	2.44	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
cis-1,2-Dichloroethene	1.66	U	10.0	1.66	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
trans-1,2-Dichloroethene	2.28	U	10.0	2.28	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
1,2-Dichloropropane	1.42	U	10.0	1.42	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
cis-1,3-Dichloropropene	1.08	U	10.0	1.08	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
trans-1,3-Dichloropropene	1.16	U	10.0	1.16	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Ethylbenzene	**8.64**	**J**	10.0	2.04	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
2-Hexanone	2.02	U	20.0	2.02	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Methylene Chloride	4.38	U	20.0	4.38	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
4-Methyl-2-pentanone (MIBK)	2.94	U	20.0	2.94	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Styrene	1.42	U	10.0	1.42	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
1,1,2,2-Tetrachloroethane	1.74	U	10.0	1.74	mg/Kg		03/16/15 10:00	03/16/15 19:15	4

Client Sample Results

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 16 Base LIQ

Date Collected: 03/11/15 10:01
Date Received: 03/11/15 12:42

Lab Sample ID: 600-107953-3

Matrix: Waste

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.42	U	10.0	1.42	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Toluene	**50.9**		10.0	2.76	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
1,1,1-Trichloroethane	1.48	U *	10.0	1.48	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
1,1,2-Trichloroethane	1.46	U	80.0	1.46	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Trichloroethene	2.80	U	10.0	2.80	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Vinyl acetate	1.86	U	20.0	1.86	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Vinyl chloride	1.80	U	20.0	1.80	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
o-Xylene	**12.2**		10.0	2.26	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
m-Xylene & p-Xylene	**31.8**		10.0	3.04	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Xylenes, Total	**44.0**		10.0	2.26	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
Bromodichloromethane	1.32	U	10.0	1.32	mg/Kg		03/16/15 10:00	03/16/15 19:15	4
1,2-Dichloroethene, Total	3.80	U	20.0	3.80	mg/Kg		03/16/15 10:00	03/16/15 19:15	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*81*		*50 - 130*	*03/16/15 10:00*	*03/16/15 19:15*	*4*
Dibromofluoromethane	*10*	*X*	*68 - 140*	*03/16/15 10:00*	*03/16/15 19:15*	*4*
4-Bromofluorobenzene	*90*		*57 - 140*	*03/16/15 10:00*	*03/16/15 19:15*	*4*
1,2-Dichloroethane-d4 (Surr)	*110*		*61 - 130*	*03/16/15 10:00*	*03/16/15 19:15*	*4*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	**2100**		100	38.0	mg/Kg		03/12/15 10:04	03/12/15 19:16	1
>C12-C28	**771**		100	40.6	mg/Kg		03/12/15 10:04	03/12/15 19:16	1
>C28-C35	**764**		100	40.6	mg/Kg		03/12/15 10:04	03/12/15 19:16	1
C6-C35	**3640**		100	38.0	mg/Kg		03/12/15 10:04	03/12/15 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*70 - 130*	*03/12/15 10:04*	*03/12/15 19:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.888	U	1.97	0.888	mg/Kg		03/16/15 11:10	03/16/15 15:45	1
Barium	1.58	U	1.97	1.58	mg/Kg		03/16/15 11:10	03/16/15 15:45	1
Cadmium	0.0986	U	0.986	0.0986	mg/Kg		03/16/15 11:10	03/16/15 15:45	1
Chromium	0.592	U	0.986	0.592	mg/Kg		03/16/15 11:10	03/16/15 15:45	1
Lead	0.493	U	0.986	0.493	mg/Kg		03/16/15 11:10	03/16/15 15:45	1
Selenium	0.986	U	1.97	0.986	mg/Kg		03/16/15 11:10	03/16/15 15:45	1
Silver	0.493	U	0.986	0.493	mg/Kg		03/16/15 11:10	03/16/15 15:45	1
Sodium	**22600**		197	98.6	mg/Kg		03/16/15 11:10	03/16/15 15:45	1
Sulfur	**845**		49.3	19.7	mg/Kg		03/16/15 11:10	03/17/15 00:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>186**		1.00	1.00	Degrees F			03/17/15 07:35	1
Cyanide, Reactive	0.0848	U	0.248	0.0848	mg/Kg		03/17/15 09:00	03/17/15 16:43	1
Sulfide, Reactive	13.9	U	49.6	13.9	mg/Kg		03/17/15 09:00	03/17/15 16:30	1
pH	**13.1**		0.0100	0.0100	SU			03/17/15 13:30	1
Total Halogens	**1310**		143	143	mg/Kg		03/16/15 14:26	03/17/15 19:32	1
Chloride	**1310**		143	143	mg/Kg		03/16/15 14:26	03/17/15 19:32	1
Fluoride	28.6	U	28.6	28.6	mg/Kg		03/16/15 14:26	03/17/15 19:32	1
Bromide	143	U	143	143	mg/Kg		03/16/15 14:26	03/17/15 19:32	1

Client Sample ID: 16 Base LIQ

Lab Sample ID: 600-107953-3

Date Collected: 03/11/15 10:01

Matrix: Waste

Date Received: 03/11/15 12:42

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Water	94.0				%			03/17/15 15:00	1
Phosphorus as PO4	198		5.21	1.36	mg/Kg		03/16/15 06:05	03/16/15 06:17	1

Client Sample ID: 17 Base LIQ

Lab Sample ID: 600-107953-4

Date Collected: 03/11/15 10:08

Matrix: Waste

Date Received: 03/11/15 12:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.830	U	5.00	0.830	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Benzene	0.315	U	2.50	0.315	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Chlorobromomethane	0.890	U	2.50	0.890	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Bromoform	0.685	U	2.50	0.685	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Bromomethane	0.415	U	5.00	0.415	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
2-Butanone (MEK)	0.950	U	5.00	0.950	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Carbon disulfide	0.275	U	5.00	0.275	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Carbon tetrachloride	0.565	U *	2.50	0.565	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Dibromochloromethane	0.470	U	2.50	0.470	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Chlorobenzene	0.480	U	2.50	0.480	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Chloroethane	0.700	U	5.00	0.700	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Chloroform	0.330	U	2.50	0.330	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Chloromethane	0.830	U	5.00	0.830	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
1,1-Dichloroethane	0.435	U	2.50	0.435	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
1,2-Dichloroethane	0.450	U	2.50	0.450	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
1,1-Dichloroethene	0.610	U	2.50	0.610	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
cis-1,2-Dichloroethene	0.415	U	2.50	0.415	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
trans-1,2-Dichloroethene	0.570	U	2.50	0.570	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
1,2-Dichloropropane	0.355	U	2.50	0.355	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
cis-1,3-Dichloropropene	0.270	U	2.50	0.270	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
trans-1,3-Dichloropropene	0.290	U	2.50	0.290	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Ethylbenzene	0.510	U	2.50	0.510	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
2-Hexanone	0.505	U	5.00	0.505	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Methylene Chloride	1.10	U	5.00	1.10	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
4-Methyl-2-pentanone (MIBK)	0.735	U	5.00	0.735	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Styrene	0.355	U	2.50	0.355	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
1,1,2,2-Tetrachloroethane	0.435	U	2.50	0.435	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Tetrachloroethene	0.355	U	2.50	0.355	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Toluene	0.690	U	2.50	0.690	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
1,1,1-Trichloroethane	0.370	U *	2.50	0.370	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
1,1,2-Trichloroethane	0.365	U	20.0	0.365	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Trichloroethene	0.700	U	2.50	0.700	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Vinyl acetate	0.465	U	5.00	0.465	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Vinyl chloride	0.450	U	5.00	0.450	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
o-Xylene	0.565	U	2.50	0.565	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
m-Xylene & p-Xylene	0.760	U	2.50	0.760	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Xylenes, Total	0.565	U	2.50	0.565	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
Bromodichloromethane	0.330	U	2.50	0.330	mg/Kg		03/16/15 10:00	03/16/15 20:04	1
1,2-Dichloroethene, Total	0.950	U	5.00	0.950	mg/Kg		03/16/15 10:00	03/16/15 20:04	1

Client Sample Results

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 17 Base LIQ

Date Collected: 03/11/15 10:08
Date Received: 03/11/15 12:42

Lab Sample ID: 600-107953-4

Matrix: Waste

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*50 - 130*	*03/16/15 10:00*	*03/16/15 20:04*	*1*
Dibromofluoromethane	*70*		*68 - 140*	*03/16/15 10:00*	*03/16/15 20:04*	*1*
4-Bromofluorobenzene	*89*		*57 - 140*	*03/16/15 10:00*	*03/16/15 20:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*61 - 130*	*03/16/15 10:00*	*03/16/15 20:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	525	U	917	525	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Acenaphthylene	535	U	917	535	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Anthracene	576	U *	917	576	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Benzidine	2290	U	9170	2290	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Benzo[a]anthracene	576	U	917	576	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Benzo[b]fluoranthene	53.7	U	917	53.7	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Benzo[k]fluoranthene	81.7	U	917	81.7	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Benzo[g,h,i]perylene	487	U	917	487	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Benzo[a]pyrene	514	U	917	514	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Bis(2-chloroethoxy)methane	517	U	917	517	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Bis(2-chloroethyl)ether	91.6	U	917	91.6	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Bis(2-ethylhexyl) phthalate	556	U	917	556	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
4-Bromophenyl phenyl ether	556	U *	917	556	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Butyl benzyl phthalate	558	U	917	558	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
4-Chloroaniline	183	U	917	183	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2-Chloronaphthalene	597	U	917	597	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
4-Chlorophenyl phenyl ether	551	U	917	551	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Carbazole	566	U *	917	566	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Chrysene	560	U	917	560	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Di-n-butyl phthalate	592	U *	917	592	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Dibenz(a,h)anthracene	527	U	917	527	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Dibenzofuran	546	U	917	546	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
1,2-Dichlorobenzene	73.0	U	917	73.0	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
1,3-Dichlorobenzene	495	U	917	495	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
1,4-Dichlorobenzene	64.1	U	917	64.1	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
3,3'-Dichlorobenzidine	177	U	1830	177	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Diethyl phthalate	567	U	917	567	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Dimethyl phthalate	555	U	917	555	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2,4-Dinitrotoluene	91.4	U	917	91.4	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2,6-Dinitrotoluene	582	U	917	582	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Di-n-octyl phthalate	593	U	917	593	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Fluoranthene	586	U *	917	586	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Fluorene	564	U	917	564	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Hexachlorobenzene	578	U *	917	578	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Hexachlorocyclopentadiene	61.9	U	917	61.9	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Hexachloroethane	83.1	U	917	83.1	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Hexachlorobutadiene	94.2	U	917	94.2	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Indeno[1,2,3-cd]pyrene	503	U	917	503	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Isophorone	539	U	917	539	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2-Methylnaphthalene	525	U	917	525	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Naphthalene	53.6	U	917	53.6	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2-Nitroaniline	541	U	4440	541	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
3-Nitroaniline	588	U	4440	588	mg/Kg		03/13/15 09:07	03/16/15 12:06	10

Client Sample ID: 17 Base LIQ

Lab Sample ID: 600-107953-4

Date Collected: 03/11/15 10:08
Matrix: Waste
Date Received: 03/11/15 12:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	501	U	4440	501	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Nitrobenzene	132	U	917	132	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
N-Nitrosodimethylamine	265	U	917	265	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
N-Nitrosodiphenylamine	87.6	U *	917	87.6	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
N-Nitrosodi-n-propylamine	79.4	U	917	79.4	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Phenanthrene	564	U *	917	564	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Pyrene	613	U	917	613	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
1,2,4-Trichlorobenzene	585	U	917	585	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Benzyl alcohol	173	U	917	173	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
4-Chloro-3-methylphenol	534	U	917	534	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2-Chlorophenol	64.7	U	917	64.7	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2-Methylphenol	105	U	917	105	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
3 & 4 Methylphenol	83.5	U	1830	83.5	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2,4-Dichlorophenol	507	U	917	507	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2,4-Dimethylphenol	177	U	917	177	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
4,6-Dinitro-2-methylphenol	574	U *	4440	574	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2,4-Dinitrophenol	355	U	4440	355	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2-Nitrophenol	500	U	917	500	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
4-Nitrophenol	500	U	4440	500	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Pentachlorophenol	61.4	U *	4440	61.4	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
Phenol	104	U	917	104	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2,4,5-Trichlorophenol	172	U	917	172	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
2,4,6-Trichlorophenol	500	U	917	500	mg/Kg		03/13/15 09:07	03/16/15 12:06	10
bis (2-Chloroisopropyl) ether	96.2	U *	917	96.2	mg/Kg		03/13/15 09:07	03/16/15 12:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*0*	*X*	*46 - 130*	*03/13/15 09:07*	*03/16/15 12:06*	*10*
2-Fluorophenol	*0*	*X*	*45 - 130*	*03/13/15 09:07*	*03/16/15 12:06*	*10*
2-Fluorobiphenyl	*0*	*X*	*42 - 130*	*03/13/15 09:07*	*03/16/15 12:06*	*10*
2,4,6-Tribromophenol	*0*	*X *	*25 - 130*	*03/13/15 09:07*	*03/16/15 12:06*	*10*
Terphenyl-d14	*0*	*X*	*51 - 130*	*03/13/15 09:07*	*03/16/15 12:06*	*10*
Phenol-d5 (Surr)	*0*	*X*	*48 - 130*	*03/13/15 09:07*	*03/16/15 12:06*	*10*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	**415**		100	38.0	mg/Kg		03/12/15 10:04	03/12/15 19:48	1
>C12-C28	40.6	U	100	40.6	mg/Kg		03/12/15 10:04	03/12/15 19:48	1
>C28-C35	40.6	U	100	40.6	mg/Kg		03/12/15 10:04	03/12/15 19:48	1
C6-C35	**415**		100	38.0	mg/Kg		03/12/15 10:04	03/12/15 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*70 - 130*	*03/12/15 10:04*	*03/12/15 19:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.886	U	1.97	0.886	mg/Kg		03/16/15 11:10	03/16/15 15:50	1
Barium	1.57	U	1.97	1.57	mg/Kg		03/16/15 11:10	03/16/15 15:50	1
Cadmium	0.0984	U	0.984	0.0984	mg/Kg		03/16/15 11:10	03/16/15 15:50	1
Chromium	0.591	U	0.984	0.591	mg/Kg		03/16/15 11:10	03/16/15 15:50	1
Lead	0.492	U	0.984	0.492	mg/Kg		03/16/15 11:10	03/16/15 15:50	1

Client Sample ID: 17 Base LIQ

Lab Sample ID: 600-107953-4

Date Collected: 03/11/15 10:08

Matrix: Waste

Date Received: 03/11/15 12:42

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.984	U	1.97	0.984	mg/Kg		03/16/15 11:10	03/16/15 15:50	1
Silver	0.492	U	0.984	0.492	mg/Kg		03/16/15 11:10	03/16/15 15:50	1
Sodium	98.4	U	197	98.4	mg/Kg		03/16/15 11:10	03/16/15 15:50	1
Sulfur	**25.1**	**J**	49.2	19.7	mg/Kg		03/16/15 11:10	03/17/15 00:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>186**		1.00	1.00	Degrees F			03/17/15 07:35	1
Cyanide, Reactive	0.0841	U	0.246	0.0841	mg/Kg		03/17/15 09:00	03/17/15 16:44	1
Sulfide, Reactive	13.8	U	49.2	13.8	mg/Kg		03/17/15 09:00	03/17/15 16:30	1
pH	**12.6**		0.0100	0.0100	SU			03/17/15 13:30	1
Total Halogens	119	U F1	119	119	mg/Kg		03/16/15 14:37	03/17/15 19:54	1
Chloride	119	U F1	119	119	mg/Kg		03/16/15 14:37	03/17/15 19:54	1
Fluoride	23.9	U F1 F2	23.9	23.9	mg/Kg		03/16/15 14:37	03/17/15 19:54	1
Bromide	119	U F1	119	119	mg/Kg		03/16/15 14:37	03/17/15 19:54	1
Percent Water	**100**				%			03/17/15 15:00	1
Phosphorus as PO4	**29.7**		5.00	1.31	mg/Kg		03/16/15 06:05	03/16/15 06:17	1

Client Sample ID: 18 Base Solid

Lab Sample ID: 600-107953-5

Date Collected: 03/11/15 09:45

Matrix: Solid

Date Received: 03/11/15 12:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.595**		0.0495	0.00822	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Benzene	**0.00415**	**J**	0.0248	0.00312	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Bromodichloromethane	0.00327	U	0.0248	0.00327	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Bromoform	0.00678	U	0.0248	0.00678	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Bromomethane	0.00411	U	0.0495	0.00411	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
2-Butanone (MEK)	**0.121**		0.0495	0.00941	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Carbon disulfide	0.00272	U	0.0495	0.00272	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Carbon tetrachloride	0.00559	U	0.0248	0.00559	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Chlorobenzene	0.00475	U	0.0248	0.00475	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Chlorobromomethane	0.00881	U	0.0248	0.00881	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Chloroethane	0.00693	U	0.0495	0.00693	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Chloroform	0.00327	U	0.0248	0.00327	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Chloromethane	0.00822	U	0.0495	0.00822	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
cis-1,2-Dichloroethene	0.00411	U	0.0248	0.00411	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
cis-1,3-Dichloropropene	0.00267	U	0.0248	0.00267	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Dibromochloromethane	0.00465	U	0.0248	0.00465	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
1,1-Dichloroethane	0.00431	U	0.0248	0.00431	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
1,2-Dichloroethane	0.00446	U	0.0248	0.00446	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
1,1-Dichloroethene	0.00604	U	0.0248	0.00604	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
1,2-Dichloroethene, Total	0.00941	U	0.0495	0.00941	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
1,2-Dichloropropane	0.00351	U	0.0248	0.00351	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Ethylbenzene	**0.0742**		0.0248	0.00505	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
2-Hexanone	**0.0454**	**J**	0.0495	0.00500	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Methylene Chloride	0.0108	U	0.0495	0.0108	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
4-Methyl-2-pentanone (MIBK)	0.00728	U	0.0495	0.00728	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
m-Xylene & p-Xylene	**0.303**		0.0248	0.00752	mg/Kg		03/15/15 12:59	03/15/15 16:04	1

Client Sample Results

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 18 Base Solid

Date Collected: 03/11/15 09:45
Date Received: 03/11/15 12:42

Lab Sample ID: 600-107953-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	**0.153**		0.0248	0.00559	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Styrene	0.00351	U	0.0248	0.00351	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
1,1,2,2-Tetrachloroethane	0.00431	U	0.0248	0.00431	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Tetrachloroethene	0.00351	U	0.0248	0.00351	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Toluene	**0.100**		0.0248	0.00683	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
trans-1,2-Dichloroethene	0.00564	U	0.0248	0.00564	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
trans-1,3-Dichloropropene	0.00287	U	0.0248	0.00287	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
1,1,1-Trichloroethane	0.00366	U	0.0248	0.00366	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
1,1,2-Trichloroethane	0.00361	U	0.198	0.00361	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Trichloroethene	0.00693	U	0.0248	0.00693	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Vinyl acetate	0.00460	U	0.0495	0.00460	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Vinyl chloride	0.00446	U	0.0495	0.00446	mg/Kg		03/15/15 12:59	03/15/15 16:04	1
Xylenes, Total	**0.456**		0.0248	0.00559	mg/Kg		03/15/15 12:59	03/15/15 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*122*		*57 - 140*	*03/15/15 12:59*	*03/15/15 16:04*	*1*
Dibromofluoromethane	*8*	*X*	*68 - 140*	*03/15/15 12:59*	*03/15/15 16:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*71*		*61 - 130*	*03/15/15 12:59*	*03/15/15 16:04*	*1*
Toluene-d8 (Surr)	*91*		*50 - 130*	*03/15/15 12:59*	*03/15/15 16:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.0426	U *	0.200	0.0426	mg/L			03/19/15 13:43	1
1,2-Dichloroethane	0.0384	U	0.200	0.0384	mg/L			03/19/15 13:43	1
2-Butanone (MEK)	0.0434	U	0.200	0.0434	mg/L			03/19/15 13:43	1
Benzene	0.0396	U	0.200	0.0396	mg/L			03/19/15 13:43	1
Carbon tetrachloride	0.0433	U	0.200	0.0433	mg/L			03/19/15 13:43	1
Chlorobenzene	0.0210	U	0.200	0.0210	mg/L			03/19/15 13:43	1
Chloroform	0.0403	U	0.200	0.0403	mg/L			03/19/15 13:43	1
Tetrachloroethene	0.0330	U	0.200	0.0330	mg/L			03/19/15 13:43	1
Trichloroethene	0.0320	U	0.200	0.0320	mg/L			03/19/15 13:43	1
Vinyl chloride	0.0516	U	0.200	0.0516	mg/L			03/19/15 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*03/19/15 13:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*62 - 123*		*03/19/15 13:43*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*03/19/15 13:43*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*03/19/15 13:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	64.5	U	113	64.5	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Acenaphthylene	65.7	U	113	65.7	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Anthracene	70.7	U	113	70.7	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Benzidine	3.08	U	546	3.08	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Benzo[a]anthracene	70.7	U	113	70.7	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Benzo[b]fluoranthene	6.60	U	113	6.60	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Benzo[k]fluoranthene	10.0	U	113	10.0	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Benzo[g,h,i]perylene	59.8	U	113	59.8	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Benzo[a]pyrene	63.1	U	113	63.1	mg/Kg		03/12/15 15:46	03/16/15 18:09	50

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 18 Base Solid
Date Collected: 03/11/15 09:45
Date Received: 03/11/15 12:42

Lab Sample ID: 600-107953-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	63.5	U	113	63.5	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Bis(2-chloroethyl)ether	11.3	U	113	11.3	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Bis(2-ethylhexyl) phthalate	68.2	U	113	68.2	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
4-Bromophenyl phenyl ether	68.2	U	113	68.2	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Butyl benzyl phthalate	68.5	U	113	68.5	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
4-Chloroaniline	22.5	U	113	22.5	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2-Chloronaphthalene	73.3	U	113	73.3	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
4-Chlorophenyl phenyl ether	67.7	U	113	67.7	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Carbazole	69.5	U	113	69.5	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Chrysene	68.8	U	113	68.8	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Di-n-butyl phthalate	72.7	U	113	72.7	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Dibenz(a,h)anthracene	64.8	U	113	64.8	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Dibenzofuran	67.1	U	113	67.1	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
1,2-Dichlorobenzene	8.97	U	113	8.97	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
1,3-Dichlorobenzene	60.8	U	113	60.8	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
1,4-Dichlorobenzene	7.87	U	113	7.87	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
3,3'-Dichlorobenzidine	21.7	U	225	21.7	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Diethyl phthalate	69.6	U	113	69.6	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Dimethyl phthalate	68.1	U	113	68.1	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2,4-Dinitrotoluene	11.2	U	113	11.2	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2,6-Dinitrotoluene	71.5	U	113	71.5	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Di-n-octyl phthalate	72.9	U	113	72.9	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Fluoranthene	71.9	U	113	71.9	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Fluorene	69.3	U	113	69.3	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Hexachlorobenzene	71.0	U	113	71.0	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Hexachlorocyclopentadiene	7.60	U	113	7.60	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Hexachloroethane	10.2	U	113	10.2	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Hexachlorobutadiene	11.6	U	113	11.6	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Indeno[1,2,3-cd]pyrene	61.8	U	113	61.8	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Isophorone	66.1	U	113	66.1	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2-Methylnaphthalene	64.5	U	113	64.5	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Naphthalene	6.58	U	113	6.58	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2-Nitroaniline	66.4	U	546	66.4	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
3-Nitroaniline	72.2	U	546	72.2	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
4-Nitroaniline	61.5	U *	546	61.5	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Nitrobenzene	16.2	U	113	16.2	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
N-Nitrosodimethylamine	32.6	U	113	32.6	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
N-Nitrosodiphenylamine	10.8	U	113	10.8	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
N-Nitrosodi-n-propylamine	9.75	U	113	9.75	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Phenanthrene	69.2	U	113	69.2	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Pyrene	75.3	U	113	75.3	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
1,2,4-Trichlorobenzene	71.8	U	113	71.8	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Benzyl alcohol	21.3	U	113	21.3	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
4-Chloro-3-methylphenol	65.5	U	113	65.5	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2-Chlorophenol	7.95	U	113	7.95	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2-Methylphenol	12.9	U	113	12.9	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
3 & 4 Methylphenol	10.3	U	225	10.3	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2,4-Dichlorophenol	62.3	U	113	62.3	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2,4-Dimethylphenol	21.7	U	113	21.7	mg/Kg		03/12/15 15:46	03/16/15 18:09	50

Client Sample ID: 18 Base Solid

Lab Sample ID: 600-107953-5

Date Collected: 03/11/15 09:45

Matrix: Solid

Date Received: 03/11/15 12:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	70.5	U	546	70.5	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2,4-Dinitrophenol	43.7	U	546	43.7	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2-Nitrophenol	61.4	U	113	61.4	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
4-Nitrophenol	61.4	U	546	61.4	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Pentachlorophenol	7.55	U	546	7.55	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
Phenol	12.7	U	113	12.7	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2,4,5-Trichlorophenol	21.2	U	113	21.2	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
2,4,6-Trichlorophenol	61.4	U	113	61.4	mg/Kg		03/12/15 15:46	03/16/15 18:09	50
bis (2-Chloroisopropyl) ether	11.8	U	113	11.8	mg/Kg		03/12/15 15:46	03/16/15 18:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*0*	*X*	*10 - 150*	*03/12/15 15:46*	*03/16/15 18:09*	*50*
2-Fluorophenol	*0*	*X*	*25 - 132*	*03/12/15 15:46*	*03/16/15 18:09*	*50*
2-Fluorobiphenyl	*0*	*X*	*38 - 130*	*03/12/15 15:46*	*03/16/15 18:09*	*50*
2,4,6-Tribromophenol	*0*	*X*	*10 - 148*	*03/12/15 15:46*	*03/16/15 18:09*	*50*
Terphenyl-d14	*0*	*X*	*53 - 134*	*03/12/15 15:46*	*03/16/15 18:09*	*50*
Phenol-d5 (Surr)	*0*	*X*	*27 - 123*	*03/12/15 15:46*	*03/16/15 18:09*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0890	U F1	0.500	0.0890	mg/L		03/17/15 11:00	03/17/15 17:32	10
2,4-Dinitrotoluene	0.132	U F1	0.500	0.132	mg/L		03/17/15 11:00	03/17/15 17:32	10
2,4,5-Trichlorophenol	0.136	U F1	0.500	0.136	mg/L		03/17/15 11:00	03/17/15 17:32	10
2,4,6-Trichlorophenol	0.129	U F1	0.500	0.129	mg/L		03/17/15 11:00	03/17/15 17:32	10
2-Methylphenol	0.0905	U F1	0.500	0.0905	mg/L		03/17/15 11:00	03/17/15 17:32	10
3 & 4 Methylphenol	0.0940	U F1	1.00	0.0940	mg/L		03/17/15 11:00	03/17/15 17:32	10
Hexachlorobenzene	0.130	U F1	0.500	0.130	mg/L		03/17/15 11:00	03/17/15 17:32	10
Hexachlorobutadiene	0.106	U F1	0.500	0.106	mg/L		03/17/15 11:00	03/17/15 17:32	10
Hexachloroethane	0.110	U F1	0.500	0.110	mg/L		03/17/15 11:00	03/17/15 17:32	10
Nitrobenzene	0.124	U F1	0.500	0.124	mg/L		03/17/15 11:00	03/17/15 17:32	10
Pentachlorophenol	0.231	U F1	2.50	0.231	mg/L		03/17/15 11:00	03/17/15 17:32	10
Pyridine	0.108	U F1	0.500	0.108	mg/L		03/17/15 11:00	03/17/15 17:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5	*19*		*10 - 130*	*03/17/15 11:00*	*03/17/15 17:32*	*10*
Nitrobenzene-d5	*86*		*35 - 130*	*03/17/15 11:00*	*03/17/15 17:32*	*10*
2-Fluorophenol	*69*		*10 - 130*	*03/17/15 11:00*	*03/17/15 17:32*	*10*
2-Fluorobiphenyl	*97*		*41 - 130*	*03/17/15 11:00*	*03/17/15 17:32*	*10*
2,4,6-Tribromophenol	*97*		*12 - 138*	*03/17/15 11:00*	*03/17/15 17:32*	*10*
Terphenyl-d14	*95*		*43 - 130*	*03/17/15 11:00*	*03/17/15 17:32*	*10*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	**9800**		99.4	37.8	mg/Kg		03/12/15 10:04	03/13/15 13:52	10
>C12-C28	**4250**		99.4	40.4	mg/Kg		03/12/15 10:04	03/13/15 13:52	10
>C28-C35	**4330**		99.4	40.4	mg/Kg		03/12/15 10:04	03/13/15 13:52	10
C6-C35	**18400**		99.4	37.8	mg/Kg		03/12/15 10:04	03/13/15 13:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*118*		*70 - 130*	*03/12/15 10:04*	*03/13/15 13:52*	*10*

Client Sample Results

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 18 Base Solid

Lab Sample ID: 600-107953-5

Date Collected: 03/11/15 09:45
Matrix: Solid
Date Received: 03/11/15 12:42

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.27	U H	10.1	1.27	mg/Kg			03/16/15 14:01	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.881	U	1.96	0.881	mg/Kg		03/16/15 11:10	03/19/15 14:40	1
Barium	**135**		1.96	1.57	mg/Kg		03/16/15 11:10	03/16/15 14:47	1
Cadmium	**13.6**		0.978	0.0978	mg/Kg		03/16/15 11:10	03/16/15 14:47	1
Chromium	**46.2**		0.978	0.587	mg/Kg		03/16/15 11:10	03/16/15 14:47	1
Lead	**32.2**		0.978	0.489	mg/Kg		03/16/15 11:10	03/16/15 14:47	1
Selenium	9.78	U	19.6	9.78	mg/Kg		03/16/15 11:10	03/19/15 14:45	10
Silver	4.89	U	9.78	4.89	mg/Kg		03/16/15 11:10	03/19/15 14:45	10
Sodium	**28300**		196	97.8	mg/Kg		03/16/15 11:10	03/16/15 14:47	1
Sulfur	**15800**		48.9	19.6	mg/Kg		03/16/15 11:10	03/19/15 14:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0125	U	0.100	0.0125	mg/L		03/17/15 10:18	03/17/15 16:45	1
Arsenic	**0.101**		0.100	0.0328	mg/L		03/17/15 10:18	03/17/15 16:45	1
Barium	**0.0360**	**J B**	0.200	0.0220	mg/L		03/17/15 10:18	03/17/15 16:45	1
Cadmium	0.00350	U	0.0500	0.00350	mg/L		03/17/15 10:18	03/17/15 16:45	1
Chromium	0.0155	U	0.100	0.0155	mg/L		03/17/15 10:18	03/17/15 16:45	1
Lead	0.0290	U	0.100	0.0290	mg/L		03/17/15 10:18	03/17/15 16:45	1
Selenium	**0.155**	**J**	0.400	0.0417	mg/L		03/17/15 10:18	03/17/15 16:45	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U F1	0.000200	0.0000820	mg/L		03/17/15 10:34	03/17/15 13:51	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00835**	**J**	0.0157	0.00330	mg/Kg		03/13/15 07:46	03/13/15 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	13.9	U	49.8	13.9	mg/Kg		03/17/15 09:00	03/17/15 16:30	1
Cyanide, Reactive	0.0852	U	0.249	0.0852	mg/Kg		03/17/15 09:00	03/17/15 16:44	1
Halogens, Extractable Organic	33.2	U	195	33.2	mg/Kg		03/17/15 08:20	03/17/15 13:38	1
pH	**12.7**		0.0100	0.0100	SU			03/17/15 13:30	1
Percent Water	**32.0**				%			03/19/15 14:00	1
Flashpoint	**>212**		1.00	1.00	Degrees F			03/17/15 07:35	1
Phosphorus as PO4	**2720**		50.0	13.1	mg/Kg		03/16/15 06:05	03/16/15 06:17	10

Client Sample ID: 10 Acid OXI

Lab Sample ID: 600-107953-7

Date Collected: 03/11/15 10:10
Matrix: Water
Date Received: 03/11/15 12:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.32	U	10.0	2.32	mg/L		03/13/15 12:58	03/16/15 16:30	10
Acenaphthylene	2.40	U	10.0	2.40	mg/L		03/13/15 12:58	03/16/15 16:30	10
Anthracene	2.53	U	10.0	2.53	mg/L		03/13/15 12:58	03/16/15 16:30	10

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 10 Acid OXI
Date Collected: 03/11/15 10:10
Date Received: 03/11/15 12:42

Lab Sample ID: 600-107953-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzidine	55.4	U	100	55.4	mg/L		03/13/15 12:58	03/16/15 16:30	10
Benzo[a]anthracene	2.49	U	10.0	2.49	mg/L		03/13/15 12:58	03/16/15 16:30	10
Benzo[a]pyrene	2.69	U	10.0	2.69	mg/L		03/13/15 12:58	03/16/15 16:30	10
Benzo[b]fluoranthene	2.76	U	10.0	2.76	mg/L		03/13/15 12:58	03/16/15 16:30	10
Benzo[g,h,i]perylene	2.86	U	10.0	2.86	mg/L		03/13/15 12:58	03/16/15 16:30	10
Benzo[k]fluoranthene	2.93	U	10.0	2.93	mg/L		03/13/15 12:58	03/16/15 16:30	10
Benzyl alcohol	1.50	U	10.0	1.50	mg/L		03/13/15 12:58	03/16/15 16:30	10
Bis(2-chloroethoxy)methane	2.52	U	10.0	2.52	mg/L		03/13/15 12:58	03/16/15 16:30	10
Bis(2-chloroethyl)ether	2.31	U	10.0	2.31	mg/L		03/13/15 12:58	03/16/15 16:30	10
bis (2-Chloroisopropyl) ether	2.56	U	10.0	2.56	mg/L		03/13/15 12:58	03/16/15 16:30	10
Bis(2-ethylhexyl) phthalate	2.51	U	10.0	2.51	mg/L		03/13/15 12:58	03/16/15 16:30	10
4-Bromophenyl phenyl ether	2.74	U	10.0	2.74	mg/L		03/13/15 12:58	03/16/15 16:30	10
Butyl benzyl phthalate	2.57	U	10.0	2.57	mg/L		03/13/15 12:58	03/16/15 16:30	10
Carbazole	2.77	U	10.0	2.77	mg/L		03/13/15 12:58	03/16/15 16:30	10
4-Chloroaniline	2.80	U	10.0	2.80	mg/L		03/13/15 12:58	03/16/15 16:30	10
4-Chloro-3-methylphenol	2.52	U	10.0	2.52	mg/L		03/13/15 12:58	03/16/15 16:30	10
2-Chloronaphthalene	2.23	U	10.0	2.23	mg/L		03/13/15 12:58	03/16/15 16:30	10
2-Chlorophenol	2.24	U	10.0	2.24	mg/L		03/13/15 12:58	03/16/15 16:30	10
4-Chlorophenyl phenyl ether	2.51	U	10.0	2.51	mg/L		03/13/15 12:58	03/16/15 16:30	10
Chrysene	2.54	U	10.0	2.54	mg/L		03/13/15 12:58	03/16/15 16:30	10
Dibenz(a,h)anthracene	2.85	U	10.0	2.85	mg/L		03/13/15 12:58	03/16/15 16:30	10
Dibenzofuran	2.31	U	10.0	2.31	mg/L		03/13/15 12:58	03/16/15 16:30	10
1,2-Dichlorobenzene	1.86	U	10.0	1.86	mg/L		03/13/15 12:58	03/16/15 16:30	10
1,3-Dichlorobenzene	1.92	U	10.0	1.92	mg/L		03/13/15 12:58	03/16/15 16:30	10
1,4-Dichlorobenzene	1.78	U	10.0	1.78	mg/L		03/13/15 12:58	03/16/15 16:30	10
3,3'-Dichlorobenzidine	3.87	U	20.0	3.87	mg/L		03/13/15 12:58	03/16/15 16:30	10
2,4-Dichlorophenol	2.60	U	10.0	2.60	mg/L		03/13/15 12:58	03/16/15 16:30	10
Diethyl phthalate	2.58	U	10.0	2.58	mg/L		03/13/15 12:58	03/16/15 16:30	10
2,4-Dimethylphenol	2.32	U	10.0	2.32	mg/L		03/13/15 12:58	03/16/15 16:30	10
Dimethyl phthalate	2.54	U	10.0	2.54	mg/L		03/13/15 12:58	03/16/15 16:30	10
Di-n-butyl phthalate	2.55	U	10.0	2.55	mg/L		03/13/15 12:58	03/16/15 16:30	10
4,6-Dinitro-2-methylphenol	4.75	U	50.0	4.75	mg/L		03/13/15 12:58	03/16/15 16:30	10
2,4-Dinitrophenol	3.55	U	50.0	3.55	mg/L		03/13/15 12:58	03/16/15 16:30	10
2,4-Dinitrotoluene	2.63	U	10.0	2.63	mg/L		03/13/15 12:58	03/16/15 16:30	10
2,6-Dinitrotoluene	2.50	U	10.0	2.50	mg/L		03/13/15 12:58	03/16/15 16:30	10
Di-n-octyl phthalate	2.50	U	10.0	2.50	mg/L		03/13/15 12:58	03/16/15 16:30	10
Fluoranthene	2.62	U	10.0	2.62	mg/L		03/13/15 12:58	03/16/15 16:30	10
Fluorene	2.29	U	10.0	2.29	mg/L		03/13/15 12:58	03/16/15 16:30	10
Hexachlorobenzene	2.59	U	10.0	2.59	mg/L		03/13/15 12:58	03/16/15 16:30	10
Hexachlorobutadiene	2.12	U	10.0	2.12	mg/L		03/13/15 12:58	03/16/15 16:30	10
Hexachlorocyclopentadiene	1.04	U	10.0	1.04	mg/L		03/13/15 12:58	03/16/15 16:30	10
Hexachloroethane	2.20	U	10.0	2.20	mg/L		03/13/15 12:58	03/16/15 16:30	10
Indeno[1,2,3-cd]pyrene	2.57	U	10.0	2.57	mg/L		03/13/15 12:58	03/16/15 16:30	10
Isophorone	2.65	U	10.0	2.65	mg/L		03/13/15 12:58	03/16/15 16:30	10
2-Methylnaphthalene	3.02	U	10.0	3.02	mg/L		03/13/15 12:58	03/16/15 16:30	10
2-Methylphenol	1.81	U	10.0	1.81	mg/L		03/13/15 12:58	03/16/15 16:30	10
3 & 4 Methylphenol	1.88	U	20.0	1.88	mg/L		03/13/15 12:58	03/16/15 16:30	10
Naphthalene	2.85	U	10.0	2.85	mg/L		03/13/15 12:58	03/16/15 16:30	10
2-Nitroaniline	2.45	U	50.0	2.45	mg/L		03/13/15 12:58	03/16/15 16:30	10

Client Sample ID: 10 Acid OXI

Lab Sample ID: 600-107953-7

Date Collected: 03/11/15 10:10

Matrix: Water

Date Received: 03/11/15 12:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	0.947	U	50.0	0.947	mg/L		03/13/15 12:58	03/16/15 16:30	10
4-Nitroaniline	2.30	U	50.0	2.30	mg/L		03/13/15 12:58	03/16/15 16:30	10
Nitrobenzene	2.48	U	10.0	2.48	mg/L		03/13/15 12:58	03/16/15 16:30	10
2-Nitrophenol	2.65	U	10.0	2.65	mg/L		03/13/15 12:58	03/16/15 16:30	10
4-Nitrophenol	1.51	U	50.0	1.51	mg/L		03/13/15 12:58	03/16/15 16:30	10
N-Nitrosodimethylamine	1.93	U	10.0	1.93	mg/L		03/13/15 12:58	03/16/15 16:30	10
N-Nitrosodi-n-propylamine	2.88	U	10.0	2.88	mg/L		03/13/15 12:58	03/16/15 16:30	10
N-Nitrosodiphenylamine	2.73	U	10.0	2.73	mg/L		03/13/15 12:58	03/16/15 16:30	10
Pentachlorophenol	4.62	U	50.0	4.62	mg/L		03/13/15 12:58	03/16/15 16:30	10
Phenanthrene	0.790	U	10.0	0.790	mg/L		03/13/15 12:58	03/16/15 16:30	10
Phenol	0.991	U	10.0	0.991	mg/L		03/13/15 12:58	03/16/15 16:30	10
Pyrene	2.40	U	10.0	2.40	mg/L		03/13/15 12:58	03/16/15 16:30	10
1,2,4-Trichlorobenzene	2.26	U	10.0	2.26	mg/L		03/13/15 12:58	03/16/15 16:30	10
2,4,5-Trichlorophenol	2.71	U	10.0	2.71	mg/L		03/13/15 12:58	03/16/15 16:30	10
2,4,6-Trichlorophenol	2.59	U	10.0	2.59	mg/L		03/13/15 12:58	03/16/15 16:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*41 - 130*	*03/13/15 12:58*	*03/16/15 16:30*	*10*
2-Fluorophenol	*40*		*10 - 130*	*03/13/15 12:58*	*03/16/15 16:30*	*10*
Nitrobenzene-d5	*90*		*35 - 130*	*03/13/15 12:58*	*03/16/15 16:30*	*10*
Phenol-d5 (Surr)	*25*		*10 - 130*	*03/13/15 12:58*	*03/16/15 16:30*	*10*
Terphenyl-d14	*106*		*43 - 130*	*03/13/15 12:58*	*03/16/15 16:30*	*10*
2,4,6-Tribromophenol	*0*	*X*	*12 - 138*	*03/13/15 12:58*	*03/16/15 16:30*	*10*

Client Sample ID: 12 Acid OXI

Lab Sample ID: 600-107953-8

Date Collected: 03/11/15 10:20

Matrix: Water

Date Received: 03/11/15 12:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.32	U	10.0	2.32	mg/L		03/13/15 12:58	03/16/15 17:03	10
Acenaphthylene	2.40	U	10.0	2.40	mg/L		03/13/15 12:58	03/16/15 17:03	10
Anthracene	2.53	U	10.0	2.53	mg/L		03/13/15 12:58	03/16/15 17:03	10
Benzidine	55.4	U	100	55.4	mg/L		03/13/15 12:58	03/16/15 17:03	10
Benzo[a]anthracene	2.49	U	10.0	2.49	mg/L		03/13/15 12:58	03/16/15 17:03	10
Benzo[a]pyrene	2.69	U	10.0	2.69	mg/L		03/13/15 12:58	03/16/15 17:03	10
Benzo[b]fluoranthene	2.76	U	10.0	2.76	mg/L		03/13/15 12:58	03/16/15 17:03	10
Benzo[g,h,i]perylene	2.86	U	10.0	2.86	mg/L		03/13/15 12:58	03/16/15 17:03	10
Benzo[k]fluoranthene	2.93	U	10.0	2.93	mg/L		03/13/15 12:58	03/16/15 17:03	10
Benzyl alcohol	1.50	U	10.0	1.50	mg/L		03/13/15 12:58	03/16/15 17:03	10
Bis(2-chloroethoxy)methane	2.52	U	10.0	2.52	mg/L		03/13/15 12:58	03/16/15 17:03	10
Bis(2-chloroethyl)ether	2.31	U	10.0	2.31	mg/L		03/13/15 12:58	03/16/15 17:03	10
bis (2-Chloroisopropyl) ether	2.56	U	10.0	2.56	mg/L		03/13/15 12:58	03/16/15 17:03	10
Bis(2-ethylhexyl) phthalate	2.51	U	10.0	2.51	mg/L		03/13/15 12:58	03/16/15 17:03	10
4-Bromophenyl phenyl ether	2.74	U	10.0	2.74	mg/L		03/13/15 12:58	03/16/15 17:03	10
Butyl benzyl phthalate	2.57	U	10.0	2.57	mg/L		03/13/15 12:58	03/16/15 17:03	10
Carbazole	2.77	U	10.0	2.77	mg/L		03/13/15 12:58	03/16/15 17:03	10
4-Chloroaniline	2.80	U	10.0	2.80	mg/L		03/13/15 12:58	03/16/15 17:03	10
4-Chloro-3-methylphenol	2.52	U	10.0	2.52	mg/L		03/13/15 12:58	03/16/15 17:03	10
2-Chloronaphthalene	2.23	U	10.0	2.23	mg/L		03/13/15 12:58	03/16/15 17:03	10

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 12 Acid OXI
Date Collected: 03/11/15 10:20
Date Received: 03/11/15 12:42

Lab Sample ID: 600-107953-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	2.24	U	10.0	2.24	mg/L		03/13/15 12:58	03/16/15 17:03	10
4-Chlorophenyl phenyl ether	2.51	U	10.0	2.51	mg/L		03/13/15 12:58	03/16/15 17:03	10
Chrysene	2.54	U	10.0	2.54	mg/L		03/13/15 12:58	03/16/15 17:03	10
Dibenz(a,h)anthracene	2.85	U	10.0	2.85	mg/L		03/13/15 12:58	03/16/15 17:03	10
Dibenzofuran	2.31	U	10.0	2.31	mg/L		03/13/15 12:58	03/16/15 17:03	10
1,2-Dichlorobenzene	1.86	U	10.0	1.86	mg/L		03/13/15 12:58	03/16/15 17:03	10
1,3-Dichlorobenzene	1.92	U	10.0	1.92	mg/L		03/13/15 12:58	03/16/15 17:03	10
1,4-Dichlorobenzene	1.78	U	10.0	1.78	mg/L		03/13/15 12:58	03/16/15 17:03	10
3,3'-Dichlorobenzidine	3.87	U	20.0	3.87	mg/L		03/13/15 12:58	03/16/15 17:03	10
2,4-Dichlorophenol	2.60	U	10.0	2.60	mg/L		03/13/15 12:58	03/16/15 17:03	10
Diethyl phthalate	2.58	U	10.0	2.58	mg/L		03/13/15 12:58	03/16/15 17:03	10
2,4-Dimethylphenol	2.32	U	10.0	2.32	mg/L		03/13/15 12:58	03/16/15 17:03	10
Dimethyl phthalate	2.54	U	10.0	2.54	mg/L		03/13/15 12:58	03/16/15 17:03	10
Di-n-butyl phthalate	2.55	U	10.0	2.55	mg/L		03/13/15 12:58	03/16/15 17:03	10
4,6-Dinitro-2-methylphenol	4.75	U	50.0	4.75	mg/L		03/13/15 12:58	03/16/15 17:03	10
2,4-Dinitrophenol	3.55	U	50.0	3.55	mg/L		03/13/15 12:58	03/16/15 17:03	10
2,4-Dinitrotoluene	2.63	U	10.0	2.63	mg/L		03/13/15 12:58	03/16/15 17:03	10
2,6-Dinitrotoluene	2.50	U	10.0	2.50	mg/L		03/13/15 12:58	03/16/15 17:03	10
Di-n-octyl phthalate	2.50	U	10.0	2.50	mg/L		03/13/15 12:58	03/16/15 17:03	10
Fluoranthene	2.62	U	10.0	2.62	mg/L		03/13/15 12:58	03/16/15 17:03	10
Fluorene	2.29	U	10.0	2.29	mg/L		03/13/15 12:58	03/16/15 17:03	10
Hexachlorobenzene	2.59	U	10.0	2.59	mg/L		03/13/15 12:58	03/16/15 17:03	10
Hexachlorobutadiene	2.12	U	10.0	2.12	mg/L		03/13/15 12:58	03/16/15 17:03	10
Hexachlorocyclopentadiene	1.04	U	10.0	1.04	mg/L		03/13/15 12:58	03/16/15 17:03	10
Hexachloroethane	2.20	U	10.0	2.20	mg/L		03/13/15 12:58	03/16/15 17:03	10
Indeno[1,2,3-cd]pyrene	2.57	U	10.0	2.57	mg/L		03/13/15 12:58	03/16/15 17:03	10
Isophorone	2.65	U	10.0	2.65	mg/L		03/13/15 12:58	03/16/15 17:03	10
2-Methylnaphthalene	3.02	U	10.0	3.02	mg/L		03/13/15 12:58	03/16/15 17:03	10
2-Methylphenol	1.81	U	10.0	1.81	mg/L		03/13/15 12:58	03/16/15 17:03	10
3 & 4 Methylphenol	1.88	U	20.0	1.88	mg/L		03/13/15 12:58	03/16/15 17:03	10
Naphthalene	2.85	U	10.0	2.85	mg/L		03/13/15 12:58	03/16/15 17:03	10
2-Nitroaniline	2.45	U	50.0	2.45	mg/L		03/13/15 12:58	03/16/15 17:03	10
3-Nitroaniline	0.947	U	50.0	0.947	mg/L		03/13/15 12:58	03/16/15 17:03	10
4-Nitroaniline	2.30	U	50.0	2.30	mg/L		03/13/15 12:58	03/16/15 17:03	10
Nitrobenzene	2.48	U	10.0	2.48	mg/L		03/13/15 12:58	03/16/15 17:03	10
2-Nitrophenol	2.65	U	10.0	2.65	mg/L		03/13/15 12:58	03/16/15 17:03	10
4-Nitrophenol	1.51	U	50.0	1.51	mg/L		03/13/15 12:58	03/16/15 17:03	10
N-Nitrosodimethylamine	1.93	U	10.0	1.93	mg/L		03/13/15 12:58	03/16/15 17:03	10
N-Nitrosodi-n-propylamine	2.88	U	10.0	2.88	mg/L		03/13/15 12:58	03/16/15 17:03	10
N-Nitrosodiphenylamine	2.73	U	10.0	2.73	mg/L		03/13/15 12:58	03/16/15 17:03	10
Pentachlorophenol	4.62	U	50.0	4.62	mg/L		03/13/15 12:58	03/16/15 17:03	10
Phenanthrene	0.790	U	10.0	0.790	mg/L		03/13/15 12:58	03/16/15 17:03	10
Phenol	0.991	U	10.0	0.991	mg/L		03/13/15 12:58	03/16/15 17:03	10
Pyrene	2.40	U	10.0	2.40	mg/L		03/13/15 12:58	03/16/15 17:03	10
1,2,4-Trichlorobenzene	2.26	U	10.0	2.26	mg/L		03/13/15 12:58	03/16/15 17:03	10
2,4,5-Trichlorophenol	2.71	U	10.0	2.71	mg/L		03/13/15 12:58	03/16/15 17:03	10
2,4,6-Trichlorophenol	2.59	U	10.0	2.59	mg/L		03/13/15 12:58	03/16/15 17:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*41 - 130*	*03/13/15 12:58*	*03/16/15 17:03*	*10*

Client Sample ID: 12 Acid OXI

Lab Sample ID: 600-107953-8

Date Collected: 03/11/15 10:20

Matrix: Water

Date Received: 03/11/15 12:42

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*50*		*10 - 130*	*03/13/15 12:58*	*03/16/15 17:03*	*10*
Nitrobenzene-d5	*117*		*35 - 130*	*03/13/15 12:58*	*03/16/15 17:03*	*10*
Phenol-d5 (Surr)	*31*		*10 - 130*	*03/13/15 12:58*	*03/16/15 17:03*	*10*
Terphenyl-d14	*98*		*43 - 130*	*03/13/15 12:58*	*03/16/15 17:03*	*10*
2,4,6-Tribromophenol	*0*	*X*	*12 - 138*	*03/13/15 12:58*	*03/16/15 17:03*	*10*

Client Sample ID: 16 Base LIQ

Lab Sample ID: 600-107953-9

Date Collected: 03/11/15 10:01

Matrix: Water

Date Received: 03/11/15 12:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	4.63	U	20.0	4.63	mg/L		03/13/15 12:58	03/16/15 17:36	20
Acenaphthylene	4.79	U	20.0	4.79	mg/L		03/13/15 12:58	03/16/15 17:36	20
Anthracene	5.07	U	20.0	5.07	mg/L		03/13/15 12:58	03/16/15 17:36	20
Benzidine	111	U	200	111	mg/L		03/13/15 12:58	03/16/15 17:36	20
Benzo[a]anthracene	4.98	U	20.0	4.98	mg/L		03/13/15 12:58	03/16/15 17:36	20
Benzo[a]pyrene	5.38	U	20.0	5.38	mg/L		03/13/15 12:58	03/16/15 17:36	20
Benzo[b]fluoranthene	5.51	U	20.0	5.51	mg/L		03/13/15 12:58	03/16/15 17:36	20
Benzo[g,h,i]perylene	5.73	U	20.0	5.73	mg/L		03/13/15 12:58	03/16/15 17:36	20
Benzo[k]fluoranthene	5.86	U	20.0	5.86	mg/L		03/13/15 12:58	03/16/15 17:36	20
Bis(2-chloroethoxy)methane	5.04	U	20.0	5.04	mg/L		03/13/15 12:58	03/16/15 17:36	20
Bis(2-chloroethyl)ether	4.61	U	20.0	4.61	mg/L		03/13/15 12:58	03/16/15 17:36	20
bis (2-Chloroisopropyl) ether	5.13	U	20.0	5.13	mg/L		03/13/15 12:58	03/16/15 17:36	20
Bis(2-ethylhexyl) phthalate	5.01	U	20.0	5.01	mg/L		03/13/15 12:58	03/16/15 17:36	20
4-Bromophenyl phenyl ether	5.48	U	20.0	5.48	mg/L		03/13/15 12:58	03/16/15 17:36	20
Butyl benzyl phthalate	5.14	U	20.0	5.14	mg/L		03/13/15 12:58	03/16/15 17:36	20
Carbazole	5.55	U	20.0	5.55	mg/L		03/13/15 12:58	03/16/15 17:36	20
4-Chloroaniline	5.60	U	20.0	5.60	mg/L		03/13/15 12:58	03/16/15 17:36	20
4-Chloro-3-methylphenol	5.03	U	20.0	5.03	mg/L		03/13/15 12:58	03/16/15 17:36	20
2-Chloronaphthalene	4.46	U	20.0	4.46	mg/L		03/13/15 12:58	03/16/15 17:36	20
2-Chlorophenol	4.49	U	20.0	4.49	mg/L		03/13/15 12:58	03/16/15 17:36	20
4-Chlorophenyl phenyl ether	5.02	U	20.0	5.02	mg/L		03/13/15 12:58	03/16/15 17:36	20
Chrysene	5.08	U	20.0	5.08	mg/L		03/13/15 12:58	03/16/15 17:36	20
Dibenz(a,h)anthracene	5.71	U	20.0	5.71	mg/L		03/13/15 12:58	03/16/15 17:36	20
Dibenzofuran	4.61	U	20.0	4.61	mg/L		03/13/15 12:58	03/16/15 17:36	20
1,2-Dichlorobenzene	3.72	U	20.0	3.72	mg/L		03/13/15 12:58	03/16/15 17:36	20
1,3-Dichlorobenzene	3.83	U	20.0	3.83	mg/L		03/13/15 12:58	03/16/15 17:36	20
1,4-Dichlorobenzene	3.56	U	20.0	3.56	mg/L		03/13/15 12:58	03/16/15 17:36	20
3,3'-Dichlorobenzidine	7.74	U	40.0	7.74	mg/L		03/13/15 12:58	03/16/15 17:36	20
2,4-Dichlorophenol	5.19	U	20.0	5.19	mg/L		03/13/15 12:58	03/16/15 17:36	20
Diethyl phthalate	5.16	U	20.0	5.16	mg/L		03/13/15 12:58	03/16/15 17:36	20
2,4-Dimethylphenol	4.64	U	20.0	4.64	mg/L		03/13/15 12:58	03/16/15 17:36	20
Dimethyl phthalate	5.08	U	20.0	5.08	mg/L		03/13/15 12:58	03/16/15 17:36	20
Di-n-butyl phthalate	5.10	U	20.0	5.10	mg/L		03/13/15 12:58	03/16/15 17:36	20
4,6-Dinitro-2-methylphenol	9.50	U	100	9.50	mg/L		03/13/15 12:58	03/16/15 17:36	20
2,4-Dinitrophenol	7.09	U	100	7.09	mg/L		03/13/15 12:58	03/16/15 17:36	20
2,4-Dinitrotoluene	5.26	U	20.0	5.26	mg/L		03/13/15 12:58	03/16/15 17:36	20
2,6-Dinitrotoluene	5.01	U	20.0	5.01	mg/L		03/13/15 12:58	03/16/15 17:36	20

Client Sample Results

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 16 Base LIQ

Date Collected: 03/11/15 10:01
Date Received: 03/11/15 12:42

Lab Sample ID: 600-107953-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	5.01	U	20.0	5.01	mg/L		03/13/15 12:58	03/16/15 17:36	20
Fluoranthene	5.25	U	20.0	5.25	mg/L		03/13/15 12:58	03/16/15 17:36	20
Fluorene	4.58	U	20.0	4.58	mg/L		03/13/15 12:58	03/16/15 17:36	20
Hexachlorobenzene	5.18	U	20.0	5.18	mg/L		03/13/15 12:58	03/16/15 17:36	20
Hexachlorobutadiene	4.23	U	20.0	4.23	mg/L		03/13/15 12:58	03/16/15 17:36	20
Hexachlorocyclopentadiene	2.09	U	20.0	2.09	mg/L		03/13/15 12:58	03/16/15 17:36	20
Hexachloroethane	4.39	U	20.0	4.39	mg/L		03/13/15 12:58	03/16/15 17:36	20
Indeno[1,2,3-cd]pyrene	5.14	U	20.0	5.14	mg/L		03/13/15 12:58	03/16/15 17:36	20
Isophorone	5.30	U	20.0	5.30	mg/L		03/13/15 12:58	03/16/15 17:36	20
2-Methylnaphthalene	**7.50**	**J**	20.0	6.05	mg/L		03/13/15 12:58	03/16/15 17:36	20
2-Methylphenol	3.62	U	20.0	3.62	mg/L		03/13/15 12:58	03/16/15 17:36	20
3 & 4 Methylphenol	3.76	U	40.0	3.76	mg/L		03/13/15 12:58	03/16/15 17:36	20
Naphthalene	**6.07**	**J**	20.0	5.70	mg/L		03/13/15 12:58	03/16/15 17:36	20
2-Nitroaniline	4.90	U	100	4.90	mg/L		03/13/15 12:58	03/16/15 17:36	20
3-Nitroaniline	1.89	U	100	1.89	mg/L		03/13/15 12:58	03/16/15 17:36	20
4-Nitroaniline	4.59	U	100	4.59	mg/L		03/13/15 12:58	03/16/15 17:36	20
Nitrobenzene	4.97	U	20.0	4.97	mg/L		03/13/15 12:58	03/16/15 17:36	20
2-Nitrophenol	5.29	U	20.0	5.29	mg/L		03/13/15 12:58	03/16/15 17:36	20
4-Nitrophenol	3.02	U	100	3.02	mg/L		03/13/15 12:58	03/16/15 17:36	20
N-Nitrosodimethylamine	3.86	U	20.0	3.86	mg/L		03/13/15 12:58	03/16/15 17:36	20
N-Nitrosodi-n-propylamine	5.76	U	20.0	5.76	mg/L		03/13/15 12:58	03/16/15 17:36	20
N-Nitrosodiphenylamine	5.46	U	20.0	5.46	mg/L		03/13/15 12:58	03/16/15 17:36	20
Pentachlorophenol	9.24	U	100	9.24	mg/L		03/13/15 12:58	03/16/15 17:36	20
Phenanthrene	1.58	U	20.0	1.58	mg/L		03/13/15 12:58	03/16/15 17:36	20
Phenol	1.98	U	20.0	1.98	mg/L		03/13/15 12:58	03/16/15 17:36	20
Pyrene	4.80	U	20.0	4.80	mg/L		03/13/15 12:58	03/16/15 17:36	20
1,2,4-Trichlorobenzene	4.52	U	20.0	4.52	mg/L		03/13/15 12:58	03/16/15 17:36	20
2,4,5-Trichlorophenol	5.43	U	20.0	5.43	mg/L		03/13/15 12:58	03/16/15 17:36	20
2,4,6-Trichlorophenol	5.18	U	20.0	5.18	mg/L		03/13/15 12:58	03/16/15 17:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X*	*41 - 130*	*03/13/15 12:58*	*03/16/15 17:36*	*20*
2-Fluorophenol	*0*	*X*	*10 - 130*	*03/13/15 12:58*	*03/16/15 17:36*	*20*
Nitrobenzene-d5	*0*	*X*	*35 - 130*	*03/13/15 12:58*	*03/16/15 17:36*	*20*
Phenol-d5 (Surr)	*0*	*X*	*10 - 130*	*03/13/15 12:58*	*03/16/15 17:36*	*20*
Terphenyl-d14	*0*	*X*	*43 - 130*	*03/13/15 12:58*	*03/16/15 17:36*	*20*
2,4,6-Tribromophenol	*0*	*X*	*12 - 138*	*03/13/15 12:58*	*03/16/15 17:36*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	**410**		100	15.0	mg/L		03/13/15 12:58	03/17/15 10:56	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X*	*41 - 130*	*03/13/15 12:58*	*03/17/15 10:56*	*100*
2-Fluorophenol	*0*	*X*	*10 - 130*	*03/13/15 12:58*	*03/17/15 10:56*	*100*
Nitrobenzene-d5	*0*	*X*	*35 - 130*	*03/13/15 12:58*	*03/17/15 10:56*	*100*
Phenol-d5 (Surr)	*0*	*X*	*10 - 130*	*03/13/15 12:58*	*03/17/15 10:56*	*100*
Terphenyl-d14	*0*	*X*	*43 - 130*	*03/13/15 12:58*	*03/17/15 10:56*	*100*
2,4,6-Tribromophenol	*0*	*X*	*12 - 138*	*03/13/15 12:58*	*03/17/15 10:56*	*100*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
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	Indicates the analyte was analyzed for but not detected.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery exceeds the control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was 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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
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)

Surrogate Summary

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(57-140)	(68-140)	(61-130)	(50-130)
600-107953-5	18 Base Solid	122	8 X	71	91
LCS 600-157974/3	Lab Control Sample	92	95	94	84
LCSD 600-157974/4	Lab Control Sample Dup	98	97	97	85
MB 600-157974/6	Method Blank	132	75	64	97

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(62-123)	(75-120)	(80-120)
LCS 180-135966/10	Lab Control Sample	98	99	102	105

Surrogate Legend

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

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

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(62-123)	(75-120)	(80-120)
600-107953-5	18 Base Solid	109	115	99	104
LB 180-135884/9-A	Method Blank	97	110	94	110

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	12DCE
Lab Sample ID	Client Sample ID	(50-130)	(68-140)	(57-140)	(61-130)
600-107953-1	10 Acid OXI	103	113	108	125
600-107953-2	12 Acid OXI	100	106	96	118
600-107953-3	16 Base LIQ	81	10 X	90	110
600-107953-4	17 Base LIQ	88	70	89	110

Surrogate Summary

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	12DCE
Lab Sample ID	Client Sample ID	(50-130)	(68-140)	(57-140)	(61-130)
LCS 600-158002/1-A	Lab Control Sample	86	95	91	109
LCSD 600-158002/2-A	Lab Control Sample Dup	88	93	92	104
MB 600-158002/3-A	Method Blank	86	93	87	106

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	2FP	FBP	TBP	TPH	PHL
Lab Sample ID	Client Sample ID	(10-150)	(25-132)	(38-130)	(10-148)	(53-134)	(27-123)
600-107953-5	18 Base Solid	0 X	0 X	0 X	0 X	0 X	0 X
LCS 600-157841/2-A	Lab Control Sample	82	83	85	103	92	83
MB 600-157841/1-A	Method Blank	82	84	85	83	95	82

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	2FP	FBP	TBP	TPH	PHL
Lab Sample ID	Client Sample ID	(35-130)	(10-130)	(41-130)	(12-138)	(43-130)	(10-130)
LCS 600-158120/2-A	Lab Control Sample	80	79	80	95	89	80
MB 600-158120/1-A	Method Blank	82	81	85	91	92	79

Surrogate Legend

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

Surrogate Summary

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

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

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		PHL	NBZ	2FP	FBP	TBP	TPH
Lab Sample ID	Client Sample ID	(10-130)	(35-130)	(10-130)	(41-130)	(12-138)	(43-130)
600-107953-5	18 Base Solid	19	86	69	97	97	95
LB 600-158077/1-D	Method Blank	47	83	67	85	93	94

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	2FP	FBP	TBP	TPH	PHL
Lab Sample ID	Client Sample ID	(46-130)	(45-130)	(42-130)	(25-130)	(51-130)	(48-130)
600-107953-4	17 Base LIQ	0 X	0 X	0 X	0 X *	0 X	0 X
LCS 600-157871/2-A	Lab Control Sample	101	100	86	95	94	107
MB 600-157871/1-A	Method Blank	110	108	88	87	94	114

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(41-130)	(10-130)	(35-130)	(10-130)	(43-130)	(12-138)
600-107953-7	10 Acid OXI	74	40	90	25	106	0 X
600-107953-8	12 Acid OXI	96	50	117	31	98	0 X
600-107953-9	16 Base LIQ	0 X	0 X	0 X	0 X	0 X	0 X
600-107953-9 - DL	16 Base LIQ	0 X	0 X	0 X	0 X	0 X	0 X
LCS 600-157920/2-A	Lab Control Sample	81	70	99	54	93	92
MB 600-157920/1-A	Method Blank	83	74	102	56	93	78

Surrogate Legend

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

Surrogate Summary

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	**Client Sample ID**	**OTPH (70-130)**						
600-107953-5 - DL	18 Base Solid	118						
LCS 600-157795/2-A	Lab Control Sample	82						
LCSD 600-157795/3-A	Lab Control Sample Dup	84						
MB 600-157795/1-A	Method Blank	83						

Surrogate Legend

OTPH = o-Terphenyl

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	**Client Sample ID**	**OTPH (70-130)**						
600-107953-1	10 Acid OXI	122						
600-107953-2	12 Acid OXI	107						
600-107953-3	16 Base LIQ	94						
600-107953-4	17 Base LIQ	93						
LCS 600-158029/2-A	Lab Control Sample	109						
LCSD 600-158029/3-A	Lab Control Sample Dup	114						
MB 600-158029/1-A	Method Blank	110						

Surrogate Legend

OTPH = o-Terphenyl

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

Lab Sample ID: LCS 180-135966/10
Matrix: Solid
Analysis Batch: 135966

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	0.400	0.9637	*	mg/L		241	69 - 127
1,2-Dichloroethane	0.400	0.4143		mg/L		104	63 - 140
2-Butanone (MEK)	0.400	0.2830		mg/L		71	31 - 139
Benzene	0.400	0.4207		mg/L		105	80 - 120
Carbon tetrachloride	0.400	0.4562		mg/L		114	63 - 139
Chlorobenzene	0.400	0.4198		mg/L		105	83 - 120
Chloroform	0.400	0.4496		mg/L		112	77 - 119
Tetrachloroethene	0.400	0.4236		mg/L		106	78 - 126
Trichloroethene	0.400	0.4334		mg/L		108	80 - 120
Vinyl chloride	0.400	0.4141		mg/L		104	57 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*62 - 123*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*

Lab Sample ID: MB 600-157974/6
Matrix: Solid
Analysis Batch: 157974

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00166	U	0.0100	0.00166	mg/Kg			03/15/15 12:44	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			03/15/15 12:44	1
Bromoform	0.00137	U	0.00500	0.00137	mg/Kg			03/15/15 12:44	1
Bromomethane	0.000830	U	0.0100	0.000830	mg/Kg			03/15/15 12:44	1
2-Butanone (MEK)	0.00190	U	0.0100	0.00190	mg/Kg			03/15/15 12:44	1
Carbon disulfide	0.000550	U	0.0100	0.000550	mg/Kg			03/15/15 12:44	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			03/15/15 12:44	1
Chlorobenzene	0.000960	U	0.00500	0.000960	mg/Kg			03/15/15 12:44	1
Chlorobromomethane	0.00178	U	0.00500	0.00178	mg/Kg			03/15/15 12:44	1
Chloroethane	0.00140	U	0.0100	0.00140	mg/Kg			03/15/15 12:44	1
Chloroform	0.0006743	J	0.00500	0.000660	mg/Kg			03/15/15 12:44	1
Chloromethane	0.00166	U	0.0100	0.00166	mg/Kg			03/15/15 12:44	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			03/15/15 12:44	1
Dibromochloromethane	0.000940	U	0.00500	0.000940	mg/Kg			03/15/15 12:44	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			03/15/15 12:44	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			03/15/15 12:44	1
cis-1,3-Dichloropropene	0.000540	U	0.00500	0.000540	mg/Kg			03/15/15 12:44	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			03/15/15 12:44	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			03/15/15 12:44	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			03/15/15 12:44	1
2-Hexanone	0.00101	U	0.0100	0.00101	mg/Kg			03/15/15 12:44	1
Methylene Chloride	0.00219	U	0.0100	0.00219	mg/Kg			03/15/15 12:44	1
4-Methyl-2-pentanone (MIBK)	0.00147	U	0.0100	0.00147	mg/Kg			03/15/15 12:44	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			03/15/15 12:44	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			03/15/15 12:44	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			03/15/15 12:44	1

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

Lab Sample ID: MB 600-157974/6
Matrix: Solid
Analysis Batch: 157974

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			03/15/15 12:44	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			03/15/15 12:44	1
m-Xylene & p-Xylene	0.00152	U	0.00500	0.00152	mg/Kg			03/15/15 12:44	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			03/15/15 12:44	1
trans-1,3-Dichloropropene	0.000580	U	0.00500	0.000580	mg/Kg			03/15/15 12:44	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			03/15/15 12:44	1
1,1,2-Trichloroethane	0.000730	U	0.0400	0.000730	mg/Kg			03/15/15 12:44	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			03/15/15 12:44	1
Vinyl acetate	0.000930	U	0.0100	0.000930	mg/Kg			03/15/15 12:44	1
Bromodichloromethane	0.000660	U	0.00500	0.000660	mg/Kg			03/15/15 12:44	1
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			03/15/15 12:44	1
1,2-Dichloroethene, Total	0.00190	U	0.0100	0.00190	mg/Kg			03/15/15 12:44	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			03/15/15 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*50 - 130*		*03/15/15 12:44*	*1*
Dibromofluoromethane	*75*		*68 - 140*		*03/15/15 12:44*	*1*
4-Bromofluorobenzene	*132*		*57 - 140*		*03/15/15 12:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*64*		*61 - 130*		*03/15/15 12:44*	*1*

Lab Sample ID: LCS 600-157974/3
Matrix: Solid
Analysis Batch: 157974

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.1276		mg/Kg		128	13 - 150
Benzene	0.0500	0.04841		mg/Kg		97	70 - 131
Bromoform	0.0500	0.04777		mg/Kg		96	43 - 150
Bromomethane	0.0500	0.05377		mg/Kg		108	37 - 147
2-Butanone (MEK)	0.100	0.1093		mg/Kg		109	33 - 150
Carbon disulfide	0.0500	0.03535		mg/Kg		71	51 - 141
Carbon tetrachloride	0.0500	0.04052		mg/Kg		81	58 - 130
Chlorobenzene	0.0500	0.04243		mg/Kg		85	63 - 131
Chlorobromomethane	0.0500	0.04784		mg/Kg		96	70 - 132
Chloroethane	0.0500	0.05594		mg/Kg		112	40 - 150
Chloroform	0.0500	0.04804		mg/Kg		96	69 - 130
Chloromethane	0.0500	0.04446		mg/Kg		89	44 - 141
cis-1,2-Dichloroethene	0.0500	0.04786		mg/Kg		96	70 - 130
Dibromochloromethane	0.0500	0.04260		mg/Kg		85	65 - 134
1,1-Dichloroethane	0.0500	0.04690		mg/Kg		94	63 - 140
1,2-Dichloroethane	0.0500	0.04684		mg/Kg		94	58 - 137
cis-1,3-Dichloropropene	0.0500	0.04392		mg/Kg		88	65 - 130
1,1-Dichloroethene	0.0500	0.04106		mg/Kg		82	62 - 142
1,2-Dichloropropane	0.0500	0.05097		mg/Kg		102	70 - 130
Ethylbenzene	0.0500	0.04235		mg/Kg		85	66 - 130
2-Hexanone	0.100	0.09696		mg/Kg		97	35 - 150
Methylene Chloride	0.0500	0.04100		mg/Kg		82	61 - 150
4-Methyl-2-pentanone (MIBK)	0.100	0.1110		mg/Kg		111	21 - 150

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

Lab Sample ID: LCS 600-157974/3
Matrix: Solid
Analysis Batch: 157974

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	0.0500	0.04107		mg/Kg		82	65 - 133
1,1,2,2-Tetrachloroethane	0.0500	0.05474		mg/Kg		109	61 - 138
Tetrachloroethene	0.0500	0.03694		mg/Kg		74	43 - 143
Toluene	0.0500	0.04222		mg/Kg		84	67 - 130
o-Xylene	0.0500	0.04289		mg/Kg		86	62 - 130
m-Xylene & p-Xylene	0.0500	0.04203		mg/Kg		84	64 - 130
trans-1,2-Dichloroethene	0.0500	0.04493		mg/Kg		90	69 - 130
trans-1,3-Dichloropropene	0.0500	0.04435		mg/Kg		89	70 - 130
1,1,1-Trichloroethane	0.0500	0.04200		mg/Kg		84	59 - 130
1,1,2-Trichloroethane	0.0500	0.04473		mg/Kg		89	67 - 134
Trichloroethene	0.0500	0.04543		mg/Kg		91	63 - 135
Vinyl acetate	0.100	0.1051		mg/Kg		105	40 - 150
Bromodichloromethane	0.0500	0.04927		mg/Kg		99	67 - 138
Vinyl chloride	0.0500	0.05099		mg/Kg		102	40 - 148
1,2-Dichloroethene, Total	0.100	0.09279		mg/Kg		93	70 - 130
Xylenes, Total	0.100	0.08492		mg/Kg		85	63 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*84*		*50 - 130*
Dibromofluoromethane	*95*		*68 - 140*
4-Bromofluorobenzene	*92*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 130*

Lab Sample ID: LCSD 600-157974/4
Matrix: Solid
Analysis Batch: 157974

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
Acetone	0.100	0.1196		mg/Kg		120	13 - 150	6	30
Benzene	0.0500	0.04917		mg/Kg		98	70 - 131	2	30
Bromoform	0.0500	0.05326		mg/Kg		107	43 - 150	11	30
Bromomethane	0.0500	0.05875		mg/Kg		118	37 - 147	9	30
2-Butanone (MEK)	0.100	0.1129		mg/Kg		113	33 - 150	3	30
Carbon disulfide	0.0500	0.03509		mg/Kg		70	51 - 141	1	30
Carbon tetrachloride	0.0500	0.04034		mg/Kg		81	58 - 130	0	30
Chlorobenzene	0.0500	0.04302		mg/Kg		86	63 - 131	1	30
Chlorobromomethane	0.0500	0.04913		mg/Kg		98	70 - 132	3	30
Chloroethane	0.0500	0.05896		mg/Kg		118	40 - 150	5	30
Chloroform	0.0500	0.04827		mg/Kg		97	69 - 130	0	30
Chloromethane	0.0500	0.04721		mg/Kg		94	44 - 141	6	30
cis-1,2-Dichloroethene	0.0500	0.04807		mg/Kg		96	70 - 130	0	30
Dibromochloromethane	0.0500	0.04441		mg/Kg		89	65 - 134	4	30
1,1-Dichloroethane	0.0500	0.04737		mg/Kg		95	63 - 140	1	30
1,2-Dichloroethane	0.0500	0.04737		mg/Kg		95	58 - 137	1	30
cis-1,3-Dichloropropene	0.0500	0.04613		mg/Kg		92	65 - 130	5	30
1,1-Dichloroethene	0.0500	0.04005		mg/Kg		80	62 - 142	2	30
1,2-Dichloropropane	0.0500	0.05089		mg/Kg		102	70 - 130	0	30
Ethylbenzene	0.0500	0.04318		mg/Kg		86	66 - 130	2	30

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

Lab Sample ID: LCSD 600-157974/4
Matrix: Solid
Analysis Batch: 157974

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
2-Hexanone	0.100	0.1038		mg/Kg		104	35 - 150	7	30
Methylene Chloride	0.0500	0.04117		mg/Kg		82	61 - 150	0	30
4-Methyl-2-pentanone (MIBK)	0.100	0.1153		mg/Kg		115	21 - 150	4	30
Styrene	0.0500	0.04219		mg/Kg		84	65 - 133	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.05796		mg/Kg		116	61 - 138	6	30
Tetrachloroethene	0.0500	0.03783		mg/Kg		76	43 - 143	2	30
Toluene	0.0500	0.04324		mg/Kg		86	67 - 130	2	30
o-Xylene	0.0500	0.04386		mg/Kg		88	62 - 130	2	30
m-Xylene & p-Xylene	0.0500	0.04275		mg/Kg		85	64 - 130	2	30
trans-1,2-Dichloroethene	0.0500	0.04504		mg/Kg		90	69 - 130	0	30
trans-1,3-Dichloropropene	0.0500	0.04553		mg/Kg		91	70 - 130	3	30
1,1,1-Trichloroethane	0.0500	0.04183		mg/Kg		84	59 - 130	0	30
1,1,2-Trichloroethane	0.0500	0.04663		mg/Kg		93	67 - 134	4	30
Trichloroethene	0.0500	0.04567		mg/Kg		91	63 - 135	1	30
Vinyl acetate	0.100	0.1089		mg/Kg		109	40 - 150	4	30
Bromodichloromethane	0.0500	0.04978		mg/Kg		100	67 - 138	1	30
Vinyl chloride	0.0500	0.05246		mg/Kg		105	40 - 148	3	30
1,2-Dichloroethene, Total	0.100	0.09311		mg/Kg		93	70 - 130	0	30
Xylenes, Total	0.100	0.08661		mg/Kg		87	63 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*85*		*50 - 130*
Dibromofluoromethane	*97*		*68 - 140*
4-Bromofluorobenzene	*98*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 130*

Lab Sample ID: MB 600-158002/3-A
Matrix: Waste
Analysis Batch: 157996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.208	U	1.25	0.208	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Benzene	0.0788	U	0.625	0.0788	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Bromoform	0.171	U	0.625	0.171	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Bromomethane	0.104	U	1.25	0.104	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
2-Butanone (MEK)	0.238	U	1.25	0.238	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Carbon disulfide	0.0688	U	1.25	0.0688	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Carbon tetrachloride	0.141	U	0.625	0.141	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Chlorobenzene	0.120	U	0.625	0.120	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Chlorobromomethane	0.223	U	0.625	0.223	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Chloroethane	0.175	U	1.25	0.175	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Chloroform	0.0825	U	0.625	0.0825	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Chloromethane	0.208	U	1.25	0.208	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
cis-1,2-Dichloroethene	0.104	U	0.625	0.104	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Dibromochloromethane	0.118	U	0.625	0.118	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
1,1-Dichloroethane	0.109	U	0.625	0.109	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
1,2-Dichloroethane	0.113	U	0.625	0.113	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
cis-1,3-Dichloropropene	0.0675	U	0.625	0.0675	mg/Kg		03/16/15 10:00	03/16/15 12:23	1

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

Lab Sample ID: MB 600-158002/3-A
Matrix: Waste
Analysis Batch: 157996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.153	U	0.625	0.153	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
1,2-Dichloropropane	0.0888	U	0.625	0.0888	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Ethylbenzene	0.128	U	0.625	0.128	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
2-Hexanone	0.126	U	1.25	0.126	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Methylene Chloride	0.274	U	1.25	0.274	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
4-Methyl-2-pentanone (MIBK)	0.184	U	1.25	0.184	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Styrene	0.0888	U	0.625	0.0888	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
1,1,2,2-Tetrachloroethane	0.109	U	0.625	0.109	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Tetrachloroethene	0.0888	U	0.625	0.0888	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Toluene	0.173	U	0.625	0.173	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
o-Xylene	0.141	U	0.625	0.141	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
m-Xylene & p-Xylene	0.190	U	0.625	0.190	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
trans-1,2-Dichloroethene	0.143	U	0.625	0.143	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
trans-1,3-Dichloropropene	0.0725	U	0.625	0.0725	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
1,1,1-Trichloroethane	0.0925	U	0.625	0.0925	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
1,1,2-Trichloroethane	0.0913	U	5.00	0.0913	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Trichloroethene	0.175	U	0.625	0.175	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Vinyl acetate	0.116	U	1.25	0.116	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Bromodichloromethane	0.0825	U	0.625	0.0825	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Vinyl chloride	0.113	U	1.25	0.113	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
1,2-Dichloroethene, Total	0.238	U	1.25	0.238	mg/Kg		03/16/15 10:00	03/16/15 12:23	1
Xylenes, Total	0.141	U	0.625	0.141	mg/Kg		03/16/15 10:00	03/16/15 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*86*		*50 - 130*	*03/16/15 10:00*	*03/16/15 12:23*	*1*
Dibromofluoromethane	*93*		*68 - 140*	*03/16/15 10:00*	*03/16/15 12:23*	*1*
4-Bromofluorobenzene	*87*		*57 - 140*	*03/16/15 10:00*	*03/16/15 12:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*61 - 130*	*03/16/15 10:00*	*03/16/15 12:23*	*1*

Lab Sample ID: LCS 600-158002/1-A
Matrix: Waste
Analysis Batch: 157996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	12.5	11.36		mg/Kg		91	13 - 150
Benzene	6.25	5.609		mg/Kg		90	70 - 131
Bromoform	6.25	7.106		mg/Kg		114	43 - 150
Bromomethane	6.25	6.219		mg/Kg		100	37 - 147
2-Butanone (MEK)	12.5	10.77		mg/Kg		86	33 - 150
Carbon disulfide	6.25	6.007		mg/Kg		96	51 - 141
Carbon tetrachloride	6.25	8.925	*	mg/Kg		143	58 - 130
Chlorobenzene	6.25	5.774		mg/Kg		92	63 - 131
Chlorobromomethane	6.25	6.250		mg/Kg		100	70 - 132
Chloroethane	6.25	6.122		mg/Kg		98	40 - 150
Chloroform	6.25	6.917		mg/Kg		111	69 - 130
Chloromethane	6.25	4.758		mg/Kg		76	44 - 141
cis-1,2-Dichloroethene	6.25	6.018		mg/Kg		96	70 - 130
Dibromochloromethane	6.25	6.750		mg/Kg		108	65 - 134

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

Lab Sample ID: LCS 600-158002/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 157996 — **Prep Batch: 158002**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	6.25	6.544		mg/Kg		105	63 - 140
1,2-Dichloroethane	6.25	7.664		mg/Kg		123	58 - 137
cis-1,3-Dichloropropene	6.25	5.946		mg/Kg		95	65 - 130
1,1-Dichloroethene	6.25	6.175		mg/Kg		99	62 - 142
1,2-Dichloropropane	6.25	5.500		mg/Kg		88	70 - 130
Ethylbenzene	6.25	5.948		mg/Kg		95	66 - 130
2-Hexanone	12.5	11.05		mg/Kg		88	35 - 150
Methylene Chloride	6.25	6.299		mg/Kg		101	61 - 150
4-Methyl-2-pentanone (MIBK)	12.5	11.21		mg/Kg		90	21 - 150
Styrene	6.25	5.946		mg/Kg		95	65 - 133
1,1,2,2-Tetrachloroethane	6.25	5.557		mg/Kg		89	61 - 138
Tetrachloroethene	6.25	6.098		mg/Kg		98	43 - 143
Toluene	6.25	5.697		mg/Kg		91	67 - 130
o-Xylene	6.25	5.854		mg/Kg		94	62 - 130
m-Xylene & p-Xylene	6.25	6.131		mg/Kg		98	64 - 130
trans-1,2-Dichloroethene	6.25	6.742		mg/Kg		108	69 - 130
trans-1,3-Dichloropropene	6.25	6.714		mg/Kg		107	70 - 130
1,1,1-Trichloroethane	6.25	8.050		mg/Kg		129	59 - 130
1,1,2-Trichloroethane	6.25	5.752		mg/Kg		92	67 - 134
Trichloroethene	6.25	6.105		mg/Kg		98	63 - 135
Vinyl acetate	12.5	11.86		mg/Kg		95	40 - 150
Bromodichloromethane	6.25	6.790		mg/Kg		109	67 - 138
Vinyl chloride	6.25	5.299		mg/Kg		85	40 - 148
1,2-Dichloroethene, Total	12.5	12.76		mg/Kg		102	70 - 130
Xylenes, Total	12.5	11.99		mg/Kg		96	63 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*86*		*50 - 130*
Dibromofluoromethane	*95*		*68 - 140*
4-Bromofluorobenzene	*91*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*109*		*61 - 130*

Lab Sample ID: LCSD 600-158002/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 157996 — **Prep Batch: 158002**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	12.5	10.58		mg/Kg		85	13 - 150	7	30
Benzene	6.25	5.583		mg/Kg		89	70 - 131	0	30
Bromoform	6.25	6.941		mg/Kg		111	43 - 150	2	30
Bromomethane	6.25	6.766		mg/Kg		108	37 - 147	8	30
2-Butanone (MEK)	12.5	8.400		mg/Kg		67	33 - 150	25	30
Carbon disulfide	6.25	6.096		mg/Kg		98	51 - 141	1	30
Carbon tetrachloride	6.25	8.871	*	mg/Kg		142	58 - 130	1	30
Chlorobenzene	6.25	5.891		mg/Kg		94	63 - 131	2	30
Chlorobromomethane	6.25	6.006		mg/Kg		96	70 - 132	4	30
Chloroethane	6.25	6.324		mg/Kg		101	40 - 150	3	30
Chloroform	6.25	7.075		mg/Kg		113	69 - 130	2	30

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

Lab Sample ID: LCSD 600-158002/2-A
Matrix: Waste
Analysis Batch: 157996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 158002

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	6.25	4.845		mg/Kg		78	44 - 141	2	30
cis-1,2-Dichloroethene	6.25	6.064		mg/Kg		97	70 - 130	1	30
Dibromochloromethane	6.25	6.982		mg/Kg		112	65 - 134	3	30
1,1-Dichloroethane	6.25	6.656		mg/Kg		107	63 - 140	2	30
1,2-Dichloroethane	6.25	7.466		mg/Kg		119	58 - 137	3	30
cis-1,3-Dichloropropene	6.25	6.057		mg/Kg		97	65 - 130	2	30
1,1-Dichloroethene	6.25	6.510		mg/Kg		104	62 - 142	5	30
1,2-Dichloropropane	6.25	5.491		mg/Kg		88	70 - 130	0	30
Ethylbenzene	6.25	6.030		mg/Kg		96	66 - 130	1	30
2-Hexanone	12.5	11.31		mg/Kg		90	35 - 150	2	30
Methylene Chloride	6.25	6.522		mg/Kg		104	61 - 150	3	30
4-Methyl-2-pentanone (MIBK)	12.5	10.79		mg/Kg		86	21 - 150	4	30
Styrene	6.25	6.032		mg/Kg		97	65 - 133	1	30
1,1,2,2-Tetrachloroethane	6.25	5.547		mg/Kg		89	61 - 138	0	30
Tetrachloroethene	6.25	6.226		mg/Kg		100	43 - 143	2	30
Toluene	6.25	5.766		mg/Kg		92	67 - 130	1	30
o-Xylene	6.25	5.848		mg/Kg		94	62 - 130	0	30
m-Xylene & p-Xylene	6.25	6.175		mg/Kg		99	64 - 130	1	30
trans-1,2-Dichloroethene	6.25	6.904		mg/Kg		110	69 - 130	2	30
trans-1,3-Dichloropropene	6.25	6.770		mg/Kg		108	70 - 130	1	30
1,1,1-Trichloroethane	6.25	8.192	*	mg/Kg		131	59 - 130	2	30
1,1,2-Trichloroethane	6.25	5.791		mg/Kg		93	67 - 134	1	30
Trichloroethene	6.25	6.100		mg/Kg		98	63 - 135	0	30
Vinyl acetate	12.5	11.86		mg/Kg		95	40 - 150	0	30
Bromodichloromethane	6.25	6.954		mg/Kg		111	67 - 138	2	30
Vinyl chloride	6.25	5.557		mg/Kg		89	40 - 148	5	30
1,2-Dichloroethene, Total	12.5	12.97		mg/Kg		104	70 - 130	2	30
Xylenes, Total	12.5	12.02		mg/Kg		96	63 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*88*		*50 - 130*
Dibromofluoromethane	*93*		*68 - 140*
4-Bromofluorobenzene	*92*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*104*		*61 - 130*

Lab Sample ID: LB 180-135884/9-A
Matrix: Solid
Analysis Batch: 135966

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.0107	U	0.0500	0.0107	mg/L			03/19/15 12:43	1
1,2-Dichloroethane	0.00959	U	0.0500	0.00959	mg/L			03/19/15 12:43	1
2-Butanone (MEK)	0.0108	U	0.0500	0.0108	mg/L			03/19/15 12:43	1
Benzene	0.00989	U	0.0500	0.00989	mg/L			03/19/15 12:43	1
Carbon tetrachloride	0.0108	U	0.0500	0.0108	mg/L			03/19/15 12:43	1
Chlorobenzene	0.00526	U	0.0500	0.00526	mg/L			03/19/15 12:43	1
Chloroform	0.0101	U	0.0500	0.0101	mg/L			03/19/15 12:43	1
Tetrachloroethene	0.00825	U	0.0500	0.00825	mg/L			03/19/15 12:43	1

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

Lab Sample ID: LB 180-135884/9-A
Matrix: Solid
Analysis Batch: 135966

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.00801	U	0.0500	0.00801	mg/L			03/19/15 12:43	1
Vinyl chloride	0.0129	U	0.0500	0.0129	mg/L			03/19/15 12:43	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/19/15 12:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*62 - 123*		*03/19/15 12:43*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*		*03/19/15 12:43*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*03/19/15 12:43*	*1*

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

Lab Sample ID: MB 600-157841/1-A
Matrix: Solid
Analysis Batch: 157921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.186	U	0.325	0.186	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Acenaphthylene	0.189	U	0.325	0.189	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Anthracene	0.204	U	0.325	0.204	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Benzidine	0.00888	U	1.57	0.00888	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Benzo[a]anthracene	0.204	U	0.325	0.204	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Benzo[b]fluoranthene	0.0190	U	0.325	0.0190	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Benzo[g,h,i]perylene	0.173	U	0.325	0.173	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Benzo[a]pyrene	0.182	U	0.325	0.182	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Benzo[k]fluoranthene	0.0289	U	0.325	0.0289	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Bis(2-chloroethoxy)methane	0.183	U	0.325	0.183	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Bis(2-chloroethyl)ether	0.0325	U	0.325	0.0325	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Bis(2-ethylhexyl) phthalate	0.197	U	0.325	0.197	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
4-Bromophenyl phenyl ether	0.197	U	0.325	0.197	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Butyl benzyl phthalate	0.198	U	0.325	0.198	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
4-Chloroaniline	0.0650	U	0.325	0.0650	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Carbazole	0.201	U	0.325	0.201	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2-Chloronaphthalene	0.211	U	0.325	0.211	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
4-Chlorophenyl phenyl ether	0.195	U	0.325	0.195	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Chrysene	0.199	U	0.325	0.199	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Dibenz(a,h)anthracene	0.187	U	0.325	0.187	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Dibenzofuran	0.194	U	0.325	0.194	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
1,2-Dichlorobenzene	0.0259	U	0.325	0.0259	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
1,3-Dichlorobenzene	0.175	U	0.325	0.175	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
1,4-Dichlorobenzene	0.0227	U	0.325	0.0227	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
3,3'-Dichlorobenzidine	0.0626	U	0.650	0.0626	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Diethyl phthalate	0.201	U	0.325	0.201	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Dimethyl phthalate	0.197	U	0.325	0.197	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Di-n-butyl phthalate	0.210	U	0.325	0.210	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2,4-Dinitrotoluene	0.0324	U	0.325	0.0324	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2,6-Dinitrotoluene	0.206	U	0.325	0.206	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Di-n-octyl phthalate	0.210	U	0.325	0.210	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Fluoranthene	0.208	U	0.325	0.208	mg/Kg		03/12/15 15:46	03/13/15 15:41	1

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

Lab Sample ID: MB 600-157841/1-A
Matrix: Solid
Analysis Batch: 157921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.200	U	0.325	0.200	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Hexachlorobenzene	0.205	U	0.325	0.205	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Hexachlorobutadiene	0.0334	U	0.325	0.0334	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Hexachlorocyclopentadiene	0.0219	U	0.325	0.0219	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Hexachloroethane	0.0294	U	0.325	0.0294	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Indeno[1,2,3-cd]pyrene	0.178	U	0.325	0.178	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Isophorone	0.191	U	0.325	0.191	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2-Methylnaphthalene	0.186	U	0.325	0.186	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Benzyl alcohol	0.0614	U	0.325	0.0614	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
4-Chloro-3-methylphenol	0.189	U	0.325	0.189	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Naphthalene	0.0190	U	0.325	0.0190	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2-Chlorophenol	0.0229	U	0.325	0.0229	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2-Nitroaniline	0.192	U	1.57	0.192	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2-Methylphenol	0.0373	U	0.325	0.0373	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
3-Nitroaniline	0.208	U	1.57	0.208	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
3 & 4 Methylphenol	0.0296	U	0.650	0.0296	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
4-Nitroaniline	0.178	U	1.57	0.178	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2,4-Dichlorophenol	0.180	U	0.325	0.180	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Nitrobenzene	0.0467	U	0.325	0.0467	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2,4-Dimethylphenol	0.0626	U	0.325	0.0626	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
4,6-Dinitro-2-methylphenol	0.203	U	1.57	0.203	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2,4-Dinitrophenol	0.126	U	1.57	0.126	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2-Nitrophenol	0.177	U	0.325	0.177	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
N-Nitrosodimethylamine	0.0940	U	0.325	0.0940	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
4-Nitrophenol	0.177	U	1.57	0.177	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
N-Nitrosodi-n-propylamine	0.0281	U	0.325	0.0281	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
N-Nitrosodiphenylamine	0.0310	U	0.325	0.0310	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Pentachlorophenol	0.0218	U	1.57	0.0218	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Phenanthrene	0.200	U	0.325	0.200	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Phenol	0.0368	U	0.325	0.0368	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
Pyrene	0.217	U	0.325	0.217	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
1,2,4-Trichlorobenzene	0.207	U	0.325	0.207	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2,4,5-Trichlorophenol	0.0611	U	0.325	0.0611	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
2,4,6-Trichlorophenol	0.177	U	0.325	0.177	mg/Kg		03/12/15 15:46	03/13/15 15:41	1
bis (2-Chloroisopropyl) ether	0.0341	U	0.325	0.0341	mg/Kg		03/12/15 15:46	03/13/15 15:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*82*		*10 - 150*	*03/12/15 15:46*	*03/13/15 15:41*	*1*
2-Fluorophenol	*84*		*25 - 132*	*03/12/15 15:46*	*03/13/15 15:41*	*1*
2-Fluorobiphenyl	*85*		*38 - 130*	*03/12/15 15:46*	*03/13/15 15:41*	*1*
2,4,6-Tribromophenol	*83*		*10 - 148*	*03/12/15 15:46*	*03/13/15 15:41*	*1*
Terphenyl-d14	*95*		*53 - 134*	*03/12/15 15:46*	*03/13/15 15:41*	*1*
Phenol-d5 (Surr)	*82*		*27 - 123*	*03/12/15 15:46*	*03/13/15 15:41*	*1*

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

Lab Sample ID: LCS 600-157841/2-A
Matrix: Solid
Analysis Batch: 157921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3.32	2.719		mg/Kg		82	58 - 130
Acenaphthylene	3.32	2.720		mg/Kg		82	56 - 130
Anthracene	3.32	2.900		mg/Kg		87	58 - 130
Benzidine	6.64	2.548		mg/Kg		38	10 - 135
Benzo[a]anthracene	3.32	2.983		mg/Kg		90	49 - 130
Benzo[b]fluoranthene	3.32	3.096		mg/Kg		93	58 - 130
Benzo[g,h,i]perylene	3.32	3.398		mg/Kg		102	49 - 135
Benzo[a]pyrene	3.32	3.234		mg/Kg		97	58 - 130
Benzo[k]fluoranthene	3.32	3.350		mg/Kg		101	56 - 130
Bis(2-chloroethoxy)methane	3.32	2.563		mg/Kg		77	49 - 130
Bis(2-chloroethyl)ether	3.32	2.495		mg/Kg		75	44 - 130
Bis(2-ethylhexyl) phthalate	3.32	2.740		mg/Kg		82	47 - 133
4-Bromophenyl phenyl ether	3.32	2.894		mg/Kg		87	56 - 130
Butyl benzyl phthalate	3.32	2.769		mg/Kg		83	43 - 135
4-Chloroaniline	3.32	2.227		mg/Kg		67	42 - 130
Carbazole	3.32	3.133		mg/Kg		94	47 - 131
2-Chloronaphthalene	3.32	2.718		mg/Kg		82	51 - 130
4-Chlorophenyl phenyl ether	3.32	2.896		mg/Kg		87	57 - 130
Chrysene	3.32	2.769		mg/Kg		83	50 - 130
Dibenz(a,h)anthracene	3.32	3.196		mg/Kg		96	48 - 130
Dibenzofuran	3.32	2.760		mg/Kg		83	58 - 130
1,2-Dichlorobenzene	3.32	2.503		mg/Kg		75	44 - 130
1,3-Dichlorobenzene	3.32	2.465		mg/Kg		74	43 - 130
1,4-Dichlorobenzene	3.32	2.551		mg/Kg		77	46 - 130
3,3'-Dichlorobenzidine	3.32	2.605		mg/Kg		78	41 - 130
Diethyl phthalate	3.32	2.915		mg/Kg		88	55 - 130
Dimethyl phthalate	3.32	2.820		mg/Kg		85	58 - 130
Di-n-butyl phthalate	3.32	2.909		mg/Kg		88	54 - 130
2,4-Dinitrotoluene	3.32	2.924		mg/Kg		88	53 - 130
2,6-Dinitrotoluene	3.32	2.794		mg/Kg		84	53 - 130
Di-n-octyl phthalate	3.32	2.742		mg/Kg		83	45 - 135
Fluoranthene	3.32	2.969		mg/Kg		89	56 - 130
Fluorene	3.32	2.827		mg/Kg		85	52 - 147
Hexachlorobenzene	3.32	3.033		mg/Kg		91	59 - 130
Hexachlorobutadiene	3.32	2.719		mg/Kg		82	49 - 130
Hexachlorocyclopentadiene	3.32	2.680		mg/Kg		81	33 - 130
Hexachloroethane	3.32	2.459		mg/Kg		74	36 - 130
Indeno[1,2,3-cd]pyrene	3.32	2.854		mg/Kg		86	41 - 130
Isophorone	3.32	2.561		mg/Kg		77	49 - 130
2-Methylnaphthalene	3.32	2.653		mg/Kg		80	54 - 130
Benzyl alcohol	3.32	2.452		mg/Kg		74	25 - 141
4-Chloro-3-methylphenol	3.32	2.669		mg/Kg		80	54 - 130
Naphthalene	3.32	2.690		mg/Kg		81	49 - 130
2-Chlorophenol	3.32	2.636		mg/Kg		79	48 - 130
2-Nitroaniline	3.32	2.666		mg/Kg		80	49 - 149
2-Methylphenol	3.32	2.642		mg/Kg		80	46 - 130
3-Nitroaniline	3.32	2.609		mg/Kg		79	45 - 133
3 & 4 Methylphenol	3.32	2.548		mg/Kg		77	44 - 130

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

Lab Sample ID: LCS 600-157841/2-A
Matrix: Solid
Analysis Batch: 157921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	3.32	5.239	*	mg/Kg		158	48 - 139
2,4-Dichlorophenol	3.32	2.699		mg/Kg		81	56 - 130
Nitrobenzene	3.32	2.562		mg/Kg		77	47 - 130
2,4-Dimethylphenol	3.32	2.671		mg/Kg		80	46 - 130
4,6-Dinitro-2-methylphenol	6.64	6.068		mg/Kg		91	45 - 130
2,4-Dinitrophenol	6.64	5.349		mg/Kg		81	25 - 130
2-Nitrophenol	3.32	2.692		mg/Kg		81	50 - 130
N-Nitrosodimethylamine	3.32	2.260		mg/Kg		68	29 - 130
4-Nitrophenol	6.64	5.465		mg/Kg		82	20 - 132
N-Nitrosodi-n-propylamine	3.32	2.580		mg/Kg		78	43 - 130
N-Nitrosodiphenylamine	6.64	5.624		mg/Kg		85	47 - 130
Pentachlorophenol	6.64	4.912		mg/Kg		74	34 - 130
Phenanthrene	3.32	2.836		mg/Kg		85	58 - 130
Phenol	3.32	2.594		mg/Kg		78	33 - 130
Pyrene	3.32	2.857		mg/Kg		86	48 - 131
1,2,4-Trichlorobenzene	3.32	2.727		mg/Kg		82	45 - 130
2,4,5-Trichlorophenol	3.32	2.825		mg/Kg		85	59 - 136
2,4,6-Trichlorophenol	3.32	2.798		mg/Kg		84	59 - 134
bis (2-Chloroisopropyl) ether	3.32	2.369		mg/Kg		71	39 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*82*		*10 - 150*
2-Fluorophenol	*83*		*25 - 132*
2-Fluorobiphenyl	*85*		*38 - 130*
2,4,6-Tribromophenol	*103*		*10 - 148*
Terphenyl-d14	*92*		*53 - 134*
Phenol-d5 (Surr)	*83*		*27 - 123*

Lab Sample ID: MB 600-157871/1-A
Matrix: Waste
Analysis Batch: 157980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.67	U	9.90	5.67	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Acenaphthylene	5.78	U	9.90	5.78	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Anthracene	6.22	U	9.90	6.22	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Benzidine	24.8	U	99.0	24.8	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Benzo[a]anthracene	6.22	U	9.90	6.22	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Benzo[b]fluoranthene	0.580	U	9.90	0.580	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Benzo[g,h,i]perylene	5.26	U	9.90	5.26	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Benzo[a]pyrene	5.55	U	9.90	5.55	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Benzo[k]fluoranthene	0.882	U	9.90	0.882	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Bis(2-chloroethoxy)methane	5.59	U	9.90	5.59	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Bis(2-chloroethyl)ether	0.989	U	9.90	0.989	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Bis(2-ethylhexyl) phthalate	6.00	U	9.90	6.00	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
4-Bromophenyl phenyl ether	6.00	U	9.90	6.00	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Butyl benzyl phthalate	6.02	U	9.90	6.02	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
4-Chloroaniline	1.98	U	9.90	1.98	mg/Kg		03/13/15 09:07	03/16/15 11:00	1

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

Lab Sample ID: MB 600-157871/1-A
Matrix: Waste
Analysis Batch: 157980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	6.11	U	9.90	6.11	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2-Chloronaphthalene	6.44	U	9.90	6.44	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
4-Chlorophenyl phenyl ether	5.95	U	9.90	5.95	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Chrysene	6.05	U	9.90	6.05	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Dibenz(a,h)anthracene	5.69	U	9.90	5.69	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Dibenzofuran	5.90	U	9.90	5.90	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
1,2-Dichlorobenzene	0.789	U	9.90	0.789	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
1,3-Dichlorobenzene	5.34	U	9.90	5.34	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
1,4-Dichlorobenzene	0.692	U	9.90	0.692	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
3,3'-Dichlorobenzidine	1.91	U	19.8	1.91	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Diethyl phthalate	6.12	U	9.90	6.12	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Dimethyl phthalate	5.99	U	9.90	5.99	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Di-n-butyl phthalate	6.39	U	9.90	6.39	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2,4-Dinitrotoluene	0.987	U	9.90	0.987	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2,6-Dinitrotoluene	6.29	U	9.90	6.29	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Di-n-octyl phthalate	6.41	U	9.90	6.41	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Fluoranthene	6.32	U	9.90	6.32	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Fluorene	6.10	U	9.90	6.10	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Hexachlorobenzene	6.24	U	9.90	6.24	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Hexachlorobutadiene	1.02	U	9.90	1.02	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Hexachlorocyclopentadiene	0.668	U	9.90	0.668	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Hexachloroethane	0.897	U	9.90	0.897	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Indeno[1,2,3-cd]pyrene	5.43	U	9.90	5.43	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Isophorone	5.82	U	9.90	5.82	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2-Methylnaphthalene	5.67	U	9.90	5.67	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Benzyl alcohol	1.87	U	9.90	1.87	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
4-Chloro-3-methylphenol	5.76	U	9.90	5.76	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Naphthalene	0.579	U	9.90	0.579	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2-Chlorophenol	0.699	U	9.90	0.699	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2-Nitroaniline	5.84	U	48.0	5.84	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2-Methylphenol	1.14	U	9.90	1.14	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
3-Nitroaniline	6.35	U	48.0	6.35	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
3 & 4 Methylphenol	0.902	U	19.8	0.902	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
4-Nitroaniline	5.41	U	48.0	5.41	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2,4-Dichlorophenol	5.48	U	9.90	5.48	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Nitrobenzene	1.42	U	9.90	1.42	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2,4-Dimethylphenol	1.91	U	9.90	1.91	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
4,6-Dinitro-2-methylphenol	6.20	U	48.0	6.20	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2,4-Dinitrophenol	3.84	U	48.0	3.84	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2-Nitrophenol	5.40	U	9.90	5.40	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
N-Nitrosodimethylamine	2.86	U	9.90	2.86	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
4-Nitrophenol	5.40	U	48.0	5.40	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
N-Nitrosodi-n-propylamine	0.858	U	9.90	0.858	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
N-Nitrosodiphenylamine	0.946	U	9.90	0.946	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Pentachlorophenol	0.664	U	48.0	0.664	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Phenanthrene	6.09	U	9.90	6.09	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Phenol	1.12	U	9.90	1.12	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
Pyrene	6.63	U	9.90	6.63	mg/Kg		03/13/15 09:07	03/16/15 11:00	1

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

Lab Sample ID: MB 600-157871/1-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 157980 — **Prep Batch: 157871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	6.32	U	9.90	6.32	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2,4,5-Trichlorophenol	1.86	U	9.90	1.86	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
2,4,6-Trichlorophenol	5.40	U	9.90	5.40	mg/Kg		03/13/15 09:07	03/16/15 11:00	1
bis (2-Chloroisopropyl) ether	1.04	U	9.90	1.04	mg/Kg		03/13/15 09:07	03/16/15 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*110*		*46 - 130*	*03/13/15 09:07*	*03/16/15 11:00*	*1*
2-Fluorophenol	*108*		*45 - 130*	*03/13/15 09:07*	*03/16/15 11:00*	*1*
2-Fluorobiphenyl	*88*		*42 - 130*	*03/13/15 09:07*	*03/16/15 11:00*	*1*
2,4,6-Tribromophenol	*87*		*25 - 130*	*03/13/15 09:07*	*03/16/15 11:00*	*1*
Terphenyl-d14	*94*		*51 - 130*	*03/13/15 09:07*	*03/16/15 11:00*	*1*
Phenol-d5 (Surr)	*114*		*48 - 130*	*03/13/15 09:07*	*03/16/15 11:00*	*1*

Lab Sample ID: LCS 600-157871/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 157980 — **Prep Batch: 157871**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	45.15		mg/Kg		90	60 - 130
Acenaphthylene	50.0	44.83		mg/Kg		90	61 - 130
Anthracene	50.0	46.48		mg/Kg		93	69 - 130
Benzidine	100	42.96	J	mg/Kg		43	10 - 150
Benzo[a]anthracene	50.0	46.56		mg/Kg		93	70 - 130
Benzo[b]fluoranthene	50.0	52.62		mg/Kg		105	61 - 130
Benzo[g,h,i]perylene	50.0	52.23		mg/Kg		104	56 - 130
Benzo[a]pyrene	50.0	50.59		mg/Kg		101	70 - 130
Benzo[k]fluoranthene	50.0	53.92		mg/Kg		108	70 - 130
Bis(2-chloroethoxy)methane	50.0	53.56		mg/Kg		107	58 - 130
Bis(2-chloroethyl)ether	50.0	52.56		mg/Kg		105	53 - 130
Bis(2-ethylhexyl) phthalate	50.0	47.61		mg/Kg		95	57 - 130
4-Bromophenyl phenyl ether	50.0	47.97		mg/Kg		96	66 - 130
Butyl benzyl phthalate	50.0	47.61		mg/Kg		95	57 - 130
4-Chloroaniline	50.0	49.79		mg/Kg		100	63 - 130
Carbazole	50.0	48.81		mg/Kg		98	61 - 130
2-Chloronaphthalene	50.0	43.47		mg/Kg		87	60 - 130
4-Chlorophenyl phenyl ether	50.0	45.14		mg/Kg		90	67 - 130
Chrysene	50.0	46.15		mg/Kg		92	67 - 130
Dibenz(a,h)anthracene	50.0	51.84		mg/Kg		104	60 - 130
Dibenzofuran	50.0	44.11		mg/Kg		88	66 - 130
1,2-Dichlorobenzene	50.0	39.05		mg/Kg		78	59 - 130
1,3-Dichlorobenzene	50.0	35.07		mg/Kg		70	58 - 130
1,4-Dichlorobenzene	50.0	36.75		mg/Kg		74	59 - 130
3,3'-Dichlorobenzidine	50.0	48.84		mg/Kg		98	64 - 130
Diethyl phthalate	50.0	43.66		mg/Kg		87	62 - 130
Dimethyl phthalate	50.0	44.34		mg/Kg		89	66 - 130
Di-n-butyl phthalate	50.0	47.42		mg/Kg		95	61 - 130
2,4-Dinitrotoluene	50.0	44.67		mg/Kg		89	66 - 130
2,6-Dinitrotoluene	50.0	45.80		mg/Kg		92	65 - 130

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

Lab Sample ID: LCS 600-157871/2-A
Matrix: Waste
Analysis Batch: 157980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	50.0	46.98		mg/Kg		94	58 - 130
Fluoranthene	50.0	47.82		mg/Kg		96	68 - 130
Fluorene	50.0	44.94		mg/Kg		90	67 - 130
Hexachlorobenzene	50.0	48.91		mg/Kg		98	64 - 130
Hexachlorobutadiene	50.0	37.50		mg/Kg		75	52 - 130
Hexachlorocyclopentadiene	50.0	34.60		mg/Kg		69	10 - 130
Hexachloroethane	50.0	38.05		mg/Kg		76	49 - 130
Indeno[1,2,3-cd]pyrene	50.0	45.76		mg/Kg		92	49 - 130
Isophorone	50.0	54.35		mg/Kg		109	57 - 130
2-Methylnaphthalene	50.0	45.27		mg/Kg		91	66 - 130
Benzyl alcohol	50.0	51.43		mg/Kg		103	58 - 130
4-Chloro-3-methylphenol	50.0	47.78		mg/Kg		96	62 - 130
Naphthalene	50.0	43.49		mg/Kg		87	63 - 130
2-Chlorophenol	50.0	46.80		mg/Kg		94	60 - 130
2-Nitroaniline	50.0	55.57		mg/Kg		111	56 - 132
2-Methylphenol	50.0	48.79		mg/Kg		98	64 - 130
3-Nitroaniline	50.0	52.92		mg/Kg		106	65 - 130
3 & 4 Methylphenol	50.0	50.06		mg/Kg		100	65 - 130
4-Nitroaniline	50.0	64.62		mg/Kg		129	59 - 133
2,4-Dichlorophenol	50.0	44.48		mg/Kg		89	66 - 130
Nitrobenzene	50.0	50.89		mg/Kg		102	41 - 140
2,4-Dimethylphenol	50.0	47.74		mg/Kg		95	56 - 130
4,6-Dinitro-2-methylphenol	100	97.18		mg/Kg		97	29 - 132
2,4-Dinitrophenol	100	87.88		mg/Kg		88	10 - 147
2-Nitrophenol	50.0	45.91		mg/Kg		92	63 - 130
N-Nitrosodimethylamine	50.0	57.16		mg/Kg		114	53 - 139
4-Nitrophenol	100	70.82		mg/Kg		71	23 - 137
N-Nitrosodi-n-propylamine	50.0	57.83		mg/Kg		116	54 - 142
N-Nitrosodiphenylamine	100	91.42		mg/Kg		91	70 - 130
Pentachlorophenol	100	95.57		mg/Kg		96	27 - 130
Phenanthrene	50.0	45.44		mg/Kg		91	68 - 130
Phenol	50.0	54.01		mg/Kg		108	61 - 130
Pyrene	50.0	46.11		mg/Kg		92	64 - 130
1,2,4-Trichlorobenzene	50.0	40.34		mg/Kg		81	59 - 130
2,4,5-Trichlorophenol	50.0	45.18		mg/Kg		90	58 - 130
2,4,6-Trichlorophenol	50.0	44.16		mg/Kg		88	60 - 130
bis (2-Chloroisopropyl) ether	50.0	65.91	*	mg/Kg		132	41 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*101*		*46 - 130*
2-Fluorophenol	*100*		*45 - 130*
2-Fluorobiphenyl	*86*		*42 - 130*
2,4,6-Tribromophenol	*95*		*25 - 130*
Terphenyl-d14	*94*		*51 - 130*
Phenol-d5 (Surr)	*107*		*48 - 130*

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

Lab Sample ID: MB 600-157920/1-A
Matrix: Water
Analysis Batch: 157980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00232	U	0.0100	0.00232	mg/L		03/13/15 12:58	03/16/15 09:54	1
Acenaphthylene	0.00240	U	0.0100	0.00240	mg/L		03/13/15 12:58	03/16/15 09:54	1
Anthracene	0.00253	U	0.0100	0.00253	mg/L		03/13/15 12:58	03/16/15 09:54	1
Benzidine	0.0554	U	0.100	0.0554	mg/L		03/13/15 12:58	03/16/15 09:54	1
Benzo[a]anthracene	0.00249	U	0.0100	0.00249	mg/L		03/13/15 12:58	03/16/15 09:54	1
Benzo[b]fluoranthene	0.00276	U	0.0100	0.00276	mg/L		03/13/15 12:58	03/16/15 09:54	1
Benzo[g,h,i]perylene	0.00286	U	0.0100	0.00286	mg/L		03/13/15 12:58	03/16/15 09:54	1
Benzo[a]pyrene	0.00269	U	0.0100	0.00269	mg/L		03/13/15 12:58	03/16/15 09:54	1
Benzo[k]fluoranthene	0.00293	U	0.0100	0.00293	mg/L		03/13/15 12:58	03/16/15 09:54	1
Bis(2-chloroethoxy)methane	0.00252	U	0.0100	0.00252	mg/L		03/13/15 12:58	03/16/15 09:54	1
Bis(2-chloroethyl)ether	0.00231	U	0.0100	0.00231	mg/L		03/13/15 12:58	03/16/15 09:54	1
Bis(2-ethylhexyl) phthalate	0.00251	U	0.0100	0.00251	mg/L		03/13/15 12:58	03/16/15 09:54	1
4-Bromophenyl phenyl ether	0.00274	U	0.0100	0.00274	mg/L		03/13/15 12:58	03/16/15 09:54	1
Butyl benzyl phthalate	0.00257	U	0.0100	0.00257	mg/L		03/13/15 12:58	03/16/15 09:54	1
4-Chloroaniline	0.00280	U	0.0100	0.00280	mg/L		03/13/15 12:58	03/16/15 09:54	1
Carbazole	0.00277	U	0.0100	0.00277	mg/L		03/13/15 12:58	03/16/15 09:54	1
2-Chloronaphthalene	0.00223	U	0.0100	0.00223	mg/L		03/13/15 12:58	03/16/15 09:54	1
4-Chlorophenyl phenyl ether	0.00251	U	0.0100	0.00251	mg/L		03/13/15 12:58	03/16/15 09:54	1
Chrysene	0.00254	U	0.0100	0.00254	mg/L		03/13/15 12:58	03/16/15 09:54	1
Dibenz(a,h)anthracene	0.00285	U	0.0100	0.00285	mg/L		03/13/15 12:58	03/16/15 09:54	1
Dibenzofuran	0.00231	U	0.0100	0.00231	mg/L		03/13/15 12:58	03/16/15 09:54	1
1,2-Dichlorobenzene	0.00186	U	0.0100	0.00186	mg/L		03/13/15 12:58	03/16/15 09:54	1
1,3-Dichlorobenzene	0.00192	U	0.0100	0.00192	mg/L		03/13/15 12:58	03/16/15 09:54	1
1,4-Dichlorobenzene	0.00178	U	0.0100	0.00178	mg/L		03/13/15 12:58	03/16/15 09:54	1
3,3'-Dichlorobenzidine	0.00387	U	0.0200	0.00387	mg/L		03/13/15 12:58	03/16/15 09:54	1
Diethyl phthalate	0.00258	U	0.0100	0.00258	mg/L		03/13/15 12:58	03/16/15 09:54	1
Dimethyl phthalate	0.00254	U	0.0100	0.00254	mg/L		03/13/15 12:58	03/16/15 09:54	1
Di-n-butyl phthalate	0.00255	U	0.0100	0.00255	mg/L		03/13/15 12:58	03/16/15 09:54	1
2,4-Dinitrotoluene	0.00263	U	0.0100	0.00263	mg/L		03/13/15 12:58	03/16/15 09:54	1
2,6-Dinitrotoluene	0.00250	U	0.0100	0.00250	mg/L		03/13/15 12:58	03/16/15 09:54	1
Di-n-octyl phthalate	0.00250	U	0.0100	0.00250	mg/L		03/13/15 12:58	03/16/15 09:54	1
Fluoranthene	0.00262	U	0.0100	0.00262	mg/L		03/13/15 12:58	03/16/15 09:54	1
Fluorene	0.00229	U	0.0100	0.00229	mg/L		03/13/15 12:58	03/16/15 09:54	1
Hexachlorobenzene	0.00259	U	0.0100	0.00259	mg/L		03/13/15 12:58	03/16/15 09:54	1
Hexachlorobutadiene	0.00212	U	0.0100	0.00212	mg/L		03/13/15 12:58	03/16/15 09:54	1
Hexachlorocyclopentadiene	0.00104	U	0.0100	0.00104	mg/L		03/13/15 12:58	03/16/15 09:54	1
Hexachloroethane	0.00220	U	0.0100	0.00220	mg/L		03/13/15 12:58	03/16/15 09:54	1
Indeno[1,2,3-cd]pyrene	0.00257	U	0.0100	0.00257	mg/L		03/13/15 12:58	03/16/15 09:54	1
Isophorone	0.00265	U	0.0100	0.00265	mg/L		03/13/15 12:58	03/16/15 09:54	1
2-Methylnaphthalene	0.00302	U	0.0100	0.00302	mg/L		03/13/15 12:58	03/16/15 09:54	1
Benzyl alcohol	0.00150	U	0.0100	0.00150	mg/L		03/13/15 12:58	03/16/15 09:54	1
4-Chloro-3-methylphenol	0.00252	U	0.0100	0.00252	mg/L		03/13/15 12:58	03/16/15 09:54	1
Naphthalene	0.00285	U	0.0100	0.00285	mg/L		03/13/15 12:58	03/16/15 09:54	1
2-Chlorophenol	0.00224	U	0.0100	0.00224	mg/L		03/13/15 12:58	03/16/15 09:54	1
2-Nitroaniline	0.00245	U	0.0500	0.00245	mg/L		03/13/15 12:58	03/16/15 09:54	1
2-Methylphenol	0.00181	U	0.0100	0.00181	mg/L		03/13/15 12:58	03/16/15 09:54	1
3-Nitroaniline	0.000947	U	0.0500	0.000947	mg/L		03/13/15 12:58	03/16/15 09:54	1
3 & 4 Methylphenol	0.00188	U	0.0200	0.00188	mg/L		03/13/15 12:58	03/16/15 09:54	1

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

Lab Sample ID: MB 600-157920/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 157980 — **Prep Batch: 157920**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	0.00230	U	0.0500	0.00230	mg/L		03/13/15 12:58	03/16/15 09:54	1
2,4-Dichlorophenol	0.00260	U	0.0100	0.00260	mg/L		03/13/15 12:58	03/16/15 09:54	1
Nitrobenzene	0.00248	U	0.0100	0.00248	mg/L		03/13/15 12:58	03/16/15 09:54	1
2,4-Dimethylphenol	0.00232	U	0.0100	0.00232	mg/L		03/13/15 12:58	03/16/15 09:54	1
4,6-Dinitro-2-methylphenol	0.00475	U	0.0500	0.00475	mg/L		03/13/15 12:58	03/16/15 09:54	1
2,4-Dinitrophenol	0.00355	U	0.0500	0.00355	mg/L		03/13/15 12:58	03/16/15 09:54	1
2-Nitrophenol	0.00265	U	0.0100	0.00265	mg/L		03/13/15 12:58	03/16/15 09:54	1
N-Nitrosodimethylamine	0.00193	U	0.0100	0.00193	mg/L		03/13/15 12:58	03/16/15 09:54	1
4-Nitrophenol	0.00151	U	0.0500	0.00151	mg/L		03/13/15 12:58	03/16/15 09:54	1
N-Nitrosodi-n-propylamine	0.00288	U	0.0100	0.00288	mg/L		03/13/15 12:58	03/16/15 09:54	1
N-Nitrosodiphenylamine	0.00273	U	0.0100	0.00273	mg/L		03/13/15 12:58	03/16/15 09:54	1
Pentachlorophenol	0.00462	U	0.0500	0.00462	mg/L		03/13/15 12:58	03/16/15 09:54	1
Phenanthrene	0.000790	U	0.0100	0.000790	mg/L		03/13/15 12:58	03/16/15 09:54	1
Phenol	0.000991	U	0.0100	0.000991	mg/L		03/13/15 12:58	03/16/15 09:54	1
Pyrene	0.00240	U	0.0100	0.00240	mg/L		03/13/15 12:58	03/16/15 09:54	1
1,2,4-Trichlorobenzene	0.00226	U	0.0100	0.00226	mg/L		03/13/15 12:58	03/16/15 09:54	1
2,4,5-Trichlorophenol	0.00271	U	0.0100	0.00271	mg/L		03/13/15 12:58	03/16/15 09:54	1
2,4,6-Trichlorophenol	0.00259	U	0.0100	0.00259	mg/L		03/13/15 12:58	03/16/15 09:54	1
bis (2-Chloroisopropyl) ether	0.00256	U	0.0100	0.00256	mg/L		03/13/15 12:58	03/16/15 09:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*102*		*35 - 130*	*03/13/15 12:58*	*03/16/15 09:54*	*1*
2-Fluorophenol	*74*		*10 - 130*	*03/13/15 12:58*	*03/16/15 09:54*	*1*
2-Fluorobiphenyl	*83*		*41 - 130*	*03/13/15 12:58*	*03/16/15 09:54*	*1*
2,4,6-Tribromophenol	*78*		*12 - 138*	*03/13/15 12:58*	*03/16/15 09:54*	*1*
Terphenyl-d14	*93*		*43 - 130*	*03/13/15 12:58*	*03/16/15 09:54*	*1*
Phenol-d5 (Surr)	*56*		*10 - 130*	*03/13/15 12:58*	*03/16/15 09:54*	*1*

Lab Sample ID: LCS 600-157920/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 157980 — **Prep Batch: 157920**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.0500	0.04248		mg/L		85	60 - 130
Acenaphthylene	0.0500	0.04226		mg/L		85	50 - 130
Anthracene	0.0500	0.04476		mg/L		90	65 - 130
Benzidine	0.100	0.0554	U	mg/L		49	10 - 150
Benzo[a]anthracene	0.0500	0.04544		mg/L		91	64 - 130
Benzo[b]fluoranthene	0.0500	0.05128		mg/L		103	10 - 130
Benzo[g,h,i]perylene	0.0500	0.05447		mg/L		109	10 - 130
Benzo[a]pyrene	0.0500	0.04947		mg/L		99	10 - 130
Benzo[k]fluoranthene	0.0500	0.05240		mg/L		105	10 - 130
Bis(2-chloroethoxy)methane	0.0500	0.05138		mg/L		103	44 - 130
Bis(2-chloroethyl)ether	0.0500	0.05044		mg/L		101	50 - 130
Bis(2-ethylhexyl) phthalate	0.0500	0.04577		mg/L		92	52 - 133
4-Bromophenyl phenyl ether	0.0500	0.04564		mg/L		91	64 - 130
Butyl benzyl phthalate	0.0500	0.04598		mg/L		92	53 - 132
4-Chloroaniline	0.0500	0.04633		mg/L		93	32 - 130

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

Lab Sample ID: LCS 600-157920/2-A
Matrix: Water
Analysis Batch: 157980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbazole	0.0500	0.04566		mg/L		91	48 - 138
2-Chloronaphthalene	0.0500	0.04090		mg/L		82	60 - 130
4-Chlorophenyl phenyl ether	0.0500	0.04252		mg/L		85	61 - 130
Chrysene	0.0500	0.04458		mg/L		89	63 - 130
Dibenz(a,h)anthracene	0.0500	0.05301		mg/L		106	10 - 130
Dibenzofuran	0.0500	0.04156		mg/L		83	62 - 130
1,2-Dichlorobenzene	0.0500	0.04210		mg/L		84	59 - 130
1,3-Dichlorobenzene	0.0500	0.04180		mg/L		84	58 - 130
1,4-Dichlorobenzene	0.0500	0.04138		mg/L		83	57 - 130
3,3'-Dichlorobenzidine	0.0500	0.04891		mg/L		98	40 - 140
Diethyl phthalate	0.0500	0.04328		mg/L		87	63 - 130
Dimethyl phthalate	0.0500	0.04302		mg/L		86	63 - 130
Di-n-butyl phthalate	0.0500	0.04304		mg/L		86	60 - 130
2,4-Dinitrotoluene	0.0500	0.04339		mg/L		87	60 - 130
2,6-Dinitrotoluene	0.0500	0.04370		mg/L		87	59 - 130
Di-n-octyl phthalate	0.0500	0.04472		mg/L		89	51 - 135
Fluoranthene	0.0500	0.04411		mg/L		88	61 - 130
Fluorene	0.0500	0.04242		mg/L		85	64 - 130
Hexachlorobenzene	0.0500	0.04735		mg/L		95	61 - 130
Hexachlorobutadiene	0.0500	0.03900		mg/L		78	52 - 130
Hexachlorocyclopentadiene	0.0500	0.03383		mg/L		68	18 - 130
Hexachloroethane	0.0500	0.04300		mg/L		86	52 - 130
Indeno[1,2,3-cd]pyrene	0.0500	0.04588		mg/L		92	45 - 130
Isophorone	0.0500	0.05104		mg/L		102	54 - 130
2-Methylnaphthalene	0.0500	0.04243		mg/L		85	62 - 130
Benzyl alcohol	0.0500	0.04419		mg/L		88	25 - 130
4-Chloro-3-methylphenol	0.0500	0.04449		mg/L		89	58 - 130
Naphthalene	0.0500	0.04188		mg/L		84	61 - 130
2-Chlorophenol	0.0500	0.04232		mg/L		85	52 - 130
2-Nitroaniline	0.0500	0.05273		mg/L		105	48 - 134
2-Methylphenol	0.0500	0.04095		mg/L		82	39 - 130
3-Nitroaniline	0.0500	0.05146		mg/L		103	39 - 130
3 & 4 Methylphenol	0.0500	0.04109		mg/L		82	29 - 130
4-Nitroaniline	0.0500	0.06721		mg/L		134	43 - 141
2,4-Dichlorophenol	0.0500	0.04184		mg/L		84	61 - 130
Nitrobenzene	0.0500	0.04923		mg/L		98	55 - 130
2,4-Dimethylphenol	0.0500	0.04328		mg/L		87	49 - 130
4,6-Dinitro-2-methylphenol	0.100	0.09253		mg/L		93	57 - 130
2,4-Dinitrophenol	0.100	0.08539		mg/L		85	29 - 132
2-Nitrophenol	0.0500	0.04471		mg/L		89	59 - 130
N-Nitrosodimethylamine	0.0500	0.04804		mg/L		96	10 - 130
4-Nitrophenol	0.100	0.03633	J	mg/L		36	10 - 140
N-Nitrosodi-n-propylamine	0.0500	0.05206		mg/L		104	52 - 130
N-Nitrosodiphenylamine	0.100	0.08762		mg/L		88	42 - 136
Pentachlorophenol	0.100	0.07794		mg/L		78	29 - 141
Phenanthrene	0.0500	0.04353		mg/L		87	65 - 130
Phenol	0.0500	0.03013		mg/L		60	10 - 130
Pyrene	0.0500	0.04541		mg/L		91	59 - 130

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

Lab Sample ID: LCS 600-157920/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 157980 — **Prep Batch: 157920**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	0.0500	0.04087		mg/L		82	58 - 130
2,4,5-Trichlorophenol	0.0500	0.04226		mg/L		85	51 - 130
2,4,6-Trichlorophenol	0.0500	0.04083		mg/L		82	49 - 130
bis (2-Chloroisopropyl) ether	0.0500	0.06110		mg/L		122	40 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*99*		*35 - 130*
2-Fluorophenol	*70*		*10 - 130*
2-Fluorobiphenyl	*81*		*41 - 130*
2,4,6-Tribromophenol	*92*		*12 - 138*
Terphenyl-d14	*93*		*43 - 130*
Phenol-d5 (Surr)	*54*		*10 - 130*

Lab Sample ID: MB 600-158120/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158081 — **Prep Batch: 158120**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	0.00216	U	0.0100	0.00216	mg/L		03/17/15 11:00	03/17/15 15:58	1
1,4-Dichlorobenzene	0.00178	U	0.0100	0.00178	mg/L		03/17/15 11:00	03/17/15 15:58	1
2,4-Dinitrotoluene	0.00263	U	0.0100	0.00263	mg/L		03/17/15 11:00	03/17/15 15:58	1
Hexachlorobenzene	0.00259	U	0.0100	0.00259	mg/L		03/17/15 11:00	03/17/15 15:58	1
Hexachlorobutadiene	0.00212	U	0.0100	0.00212	mg/L		03/17/15 11:00	03/17/15 15:58	1
Hexachloroethane	0.00220	U	0.0100	0.00220	mg/L		03/17/15 11:00	03/17/15 15:58	1
2-Methylphenol	0.00181	U	0.0100	0.00181	mg/L		03/17/15 11:00	03/17/15 15:58	1
3 & 4 Methylphenol	0.00188	U	0.0200	0.00188	mg/L		03/17/15 11:00	03/17/15 15:58	1
Nitrobenzene	0.00248	U	0.0100	0.00248	mg/L		03/17/15 11:00	03/17/15 15:58	1
Pentachlorophenol	0.00462	U	0.0500	0.00462	mg/L		03/17/15 11:00	03/17/15 15:58	1
2,4,5-Trichlorophenol	0.00271	U	0.0100	0.00271	mg/L		03/17/15 11:00	03/17/15 15:58	1
2,4,6-Trichlorophenol	0.00259	U	0.0100	0.00259	mg/L		03/17/15 11:00	03/17/15 15:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*82*		*35 - 130*	*03/17/15 11:00*	*03/17/15 15:58*	*1*
2-Fluorophenol	*81*		*10 - 130*	*03/17/15 11:00*	*03/17/15 15:58*	*1*
2-Fluorobiphenyl	*85*		*41 - 130*	*03/17/15 11:00*	*03/17/15 15:58*	*1*
2,4,6-Tribromophenol	*91*		*12 - 138*	*03/17/15 11:00*	*03/17/15 15:58*	*1*
Terphenyl-d14	*92*		*43 - 130*	*03/17/15 11:00*	*03/17/15 15:58*	*1*
Phenol-d5	*79*		*10 - 130*	*03/17/15 11:00*	*03/17/15 15:58*	*1*

Lab Sample ID: LCS 600-158120/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158081 — **Prep Batch: 158120**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	0.0500	0.03192		mg/L		64	10 - 130
1,4-Dichlorobenzene	0.0500	0.03915		mg/L		78	57 - 130
2,4-Dinitrotoluene	0.0500	0.04094		mg/L		82	60 - 130
Hexachlorobenzene	0.0500	0.04315		mg/L		86	61 - 130

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

Lab Sample ID: LCS 600-158120/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158081 — **Prep Batch: 158120**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	0.0500	0.04032		mg/L		81	52 - 130
Hexachloroethane	0.0500	0.03767		mg/L		75	52 - 130
2-Methylphenol	0.0500	0.03881		mg/L		78	39 - 130
3 & 4 Methylphenol	0.0500	0.03835		mg/L		77	29 - 130
Nitrobenzene	0.0500	0.03767		mg/L		75	55 - 130
Pentachlorophenol	0.100	0.06985		mg/L		70	29 - 141
2,4,5-Trichlorophenol	0.0500	0.03853		mg/L		77	51 - 130
2,4,6-Trichlorophenol	0.0500	0.03931		mg/L		79	49 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*80*		*35 - 130*
2-Fluorophenol	*79*		*10 - 130*
2-Fluorobiphenyl	*80*		*41 - 130*
2,4,6-Tribromophenol	*95*		*12 - 138*
Terphenyl-d14	*89*		*43 - 130*
Phenol-d5	*80*		*10 - 130*

Lab Sample ID: LB 600-158077/1-D — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 158081 — **Prep Batch: 158120**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	0.0108	U	0.0500	0.0108	mg/L		03/17/15 11:00	03/17/15 17:00	1
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L		03/17/15 11:00	03/17/15 17:00	1
2,4-Dinitrotoluene	0.0132	U	0.0500	0.0132	mg/L		03/17/15 11:00	03/17/15 17:00	1
Hexachlorobenzene	0.0130	U	0.0500	0.0130	mg/L		03/17/15 11:00	03/17/15 17:00	1
Hexachlorobutadiene	0.0106	U	0.0500	0.0106	mg/L		03/17/15 11:00	03/17/15 17:00	1
Hexachloroethane	0.0110	U	0.0500	0.0110	mg/L		03/17/15 11:00	03/17/15 17:00	1
2-Methylphenol	0.00905	U	0.0500	0.00905	mg/L		03/17/15 11:00	03/17/15 17:00	1
3 & 4 Methylphenol	0.00940	U	0.100	0.00940	mg/L		03/17/15 11:00	03/17/15 17:00	1
Nitrobenzene	0.0124	U	0.0500	0.0124	mg/L		03/17/15 11:00	03/17/15 17:00	1
Pentachlorophenol	0.0231	U	0.250	0.0231	mg/L		03/17/15 11:00	03/17/15 17:00	1
2,4,5-Trichlorophenol	0.0136	U	0.0500	0.0136	mg/L		03/17/15 11:00	03/17/15 17:00	1
2,4,6-Trichlorophenol	0.0129	U	0.0500	0.0129	mg/L		03/17/15 11:00	03/17/15 17:00	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*35 - 130*	*03/17/15 11:00*	*03/17/15 17:00*	*1*
2-Fluorophenol	*67*		*10 - 130*	*03/17/15 11:00*	*03/17/15 17:00*	*1*
2-Fluorobiphenyl	*85*		*41 - 130*	*03/17/15 11:00*	*03/17/15 17:00*	*1*
2,4,6-Tribromophenol	*93*		*12 - 138*	*03/17/15 11:00*	*03/17/15 17:00*	*1*
Terphenyl-d14	*94*		*43 - 130*	*03/17/15 11:00*	*03/17/15 17:00*	*1*
Phenol-d5	*47*		*10 - 130*	*03/17/15 11:00*	*03/17/15 17:00*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-157795/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 157794 — **Prep Batch: 157795**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	3.80	U	10.0	3.80	mg/Kg		03/12/15 10:04	03/12/15 11:45	1
>C12-C28	4.06	U	10.0	4.06	mg/Kg		03/12/15 10:04	03/12/15 11:45	1
>C28-C35	4.06	U	10.0	4.06	mg/Kg		03/12/15 10:04	03/12/15 11:45	1
C6-C35	3.80	U	10.0	3.80	mg/Kg		03/12/15 10:04	03/12/15 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*70 - 130*	*03/12/15 10:04*	*03/12/15 11:45*	*1*

Lab Sample ID: LCS 600-157795/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 157794 — **Prep Batch: 157795**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	250	239.5		mg/Kg		96	75 - 125
>C12-C28	250	220.8		mg/Kg		88	75 - 125
C6-C35	500	460.3		mg/Kg		92	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: LCSD 600-157795/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 157794 — **Prep Batch: 157795**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C12	250	233.2		mg/Kg		93	75 - 125	3	20
>C12-C28	250	223.4		mg/Kg		89	75 - 125	1	20
C6-C35	500	456.6		mg/Kg		91	75 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*84*		*70 - 130*

Lab Sample ID: MB 600-158029/1-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 158019 — **Prep Batch: 158029**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	3.80	U	10.0	3.80	mg/Kg		03/16/15 11:59	03/16/15 13:16	1
>C12-C28	4.06	U	10.0	4.06	mg/Kg		03/16/15 11:59	03/16/15 13:16	1
>C28-C35	4.06	U	10.0	4.06	mg/Kg		03/16/15 11:59	03/16/15 13:16	1
C6-C35	3.80	U	10.0	3.80	mg/Kg		03/16/15 11:59	03/16/15 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*110*		*70 - 130*	*03/16/15 11:59*	*03/16/15 13:16*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

Lab Sample ID: LCS 600-158029/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 158019 — **Prep Batch: 158029**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	250	295.7		mg/Kg		118	75 - 125
>C12-C28	250	277.0		mg/Kg		111	75 - 125
C6-C35	500	572.7		mg/Kg		115	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: LCSD 600-158029/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 158019 — **Prep Batch: 158029**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C12	250	275.6		mg/Kg		110	75 - 125	7	20
>C12-C28	250	259.5		mg/Kg		104	75 - 125	6	20
C6-C35	500	535.1		mg/Kg		107	75 - 125	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*114*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-158012/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 158011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			03/16/15 11:55	1

Lab Sample ID: LCS 600-158012/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 158011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	96.66		mg/Kg		97	90 - 110

Lab Sample ID: 600-107953-5 MS — **Client Sample ID: 18 Base Solid**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 158011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	106	J H F1	2030	1652	F1	mg/Kg		76	80 - 120

Lab Sample ID: 600-107953-5 MSD — **Client Sample ID: 18 Base Solid**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 158011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	106	J H F1	2030	1679	F1	mg/Kg		78	80 - 120	2	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-158113/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158134 — **Prep Batch: 158113**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.00125	U	0.0100	0.00125	mg/L		03/17/15 10:18	03/17/15 16:38	1
Arsenic	0.00328	U	0.0100	0.00328	mg/L		03/17/15 10:18	03/17/15 16:38	1
Barium	0.00220	U	0.0200	0.00220	mg/L		03/17/15 10:18	03/17/15 16:38	1
Cadmium	0.000350	U	0.00500	0.000350	mg/L		03/17/15 10:18	03/17/15 16:38	1
Chromium	0.00155	U	0.0100	0.00155	mg/L		03/17/15 10:18	03/17/15 16:38	1
Lead	0.00290	U	0.0100	0.00290	mg/L		03/17/15 10:18	03/17/15 16:38	1
Selenium	0.00417	U	0.0400	0.00417	mg/L		03/17/15 10:18	03/17/15 16:38	1

Lab Sample ID: LCS 600-158113/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158134 — **Prep Batch: 158113**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.500	0.5309		mg/L		106	80 - 120
Arsenic	1.00	1.038		mg/L		104	80 - 120
Barium	1.00	1.002		mg/L		100	80 - 120
Cadmium	0.500	0.5316		mg/L		106	80 - 120
Chromium	1.00	1.056		mg/L		106	80 - 120
Lead	1.00	1.026		mg/L		103	80 - 120
Selenium	1.00	1.053		mg/L		105	80 - 120

Lab Sample ID: MB 490-233898/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 233991 — **Prep Batch: 233898**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.893	U	1.98	0.893	mg/Kg		03/16/15 11:10	03/16/15 14:03	1
Barium	1.59	U	1.98	1.59	mg/Kg		03/16/15 11:10	03/16/15 14:03	1
Cadmium	0.0992	U	0.992	0.0992	mg/Kg		03/16/15 11:10	03/16/15 14:03	1
Chromium	0.595	U	0.992	0.595	mg/Kg		03/16/15 11:10	03/16/15 14:03	1
Lead	0.496	U	0.992	0.496	mg/Kg		03/16/15 11:10	03/16/15 14:03	1
Selenium	0.992	U	1.98	0.992	mg/Kg		03/16/15 11:10	03/16/15 14:03	1
Silver	0.496	U	0.992	0.496	mg/Kg		03/16/15 11:10	03/16/15 14:03	1
Sodium	99.2	U	198	99.2	mg/Kg		03/16/15 11:10	03/16/15 14:03	1

Lab Sample ID: MB 490-233898/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 234038 — **Prep Batch: 233898**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	19.8	U	49.6	19.8	mg/Kg		03/16/15 11:10	03/16/15 22:30	1

Lab Sample ID: LCS 490-233898/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 233991 — **Prep Batch: 233898**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	19.7	18.60		mg/Kg		95	80 - 120
Barium	787	793.3		mg/Kg		101	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 490-233898/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 233991 — **Prep Batch: 233898**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	19.7	18.90		mg/Kg		96	80 - 120
Chromium	78.7	81.67		mg/Kg		104	80 - 120
Lead	19.7	20.14		mg/Kg		102	80 - 120
Selenium	19.7	18.41		mg/Kg		94	80 - 120
Silver	19.7	16.95		mg/Kg		86	80 - 120
Sodium	1970	1876		mg/Kg		95	80 - 120

Lab Sample ID: LCS 490-233898/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 234038 — **Prep Batch: 233898**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfur	394	347.8		mg/Kg		88	80 - 120

Lab Sample ID: LCSD 490-233898/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 233991 — **Prep Batch: 233898**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	19.7	17.97		mg/Kg		91	80 - 120	3	20
Barium	787	789.2		mg/Kg		100	80 - 120	1	20
Cadmium	19.7	18.80		mg/Kg		96	80 - 120	1	20
Chromium	78.7	81.36		mg/Kg		103	80 - 120	0	20
Lead	19.7	19.80		mg/Kg		101	80 - 120	2	20
Selenium	19.7	18.86		mg/Kg		96	80 - 120	2	20
Silver	19.7	16.97		mg/Kg		86	80 - 120	0	20
Sodium	1970	1860		mg/Kg		94	80 - 120	1	20

Lab Sample ID: LCSD 490-233898/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 234038 — **Prep Batch: 233898**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfur	394	344.7		mg/Kg		88	80 - 120	1	20

Lab Sample ID: LB 600-158077/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 158134 — **Prep Batch: 158113**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.02000	J	0.100	0.0125	mg/L		03/17/15 10:18	03/17/15 16:43	1
Arsenic	0.0328	U	0.100	0.0328	mg/L		03/17/15 10:18	03/17/15 16:43	1
Barium	0.09800	J	0.200	0.0220	mg/L		03/17/15 10:18	03/17/15 16:43	1
Cadmium	0.00350	U	0.0500	0.00350	mg/L		03/17/15 10:18	03/17/15 16:43	1
Chromium	0.0155	U	0.100	0.0155	mg/L		03/17/15 10:18	03/17/15 16:43	1
Lead	0.0290	U	0.100	0.0290	mg/L		03/17/15 10:18	03/17/15 16:43	1
Selenium	0.0417	U	0.400	0.0417	mg/L		03/17/15 10:18	03/17/15 16:43	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-107953-5 MS — **Client Sample ID: 18 Base Solid**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 158134 — **Prep Batch: 158113**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0125	U	5.00	5.398		mg/L		108	75 - 125
Arsenic	0.101		10.0	11.29		mg/L		112	75 - 125
Barium	0.0360	J B	10.0	10.27		mg/L		102	75 - 125
Cadmium	0.00350	U	5.00	5.465		mg/L		109	75 - 125
Chromium	0.0155	U	10.0	10.87		mg/L		109	75 - 125
Lead	0.0290	U	10.0	10.09		mg/L		101	75 - 125
Selenium	0.155	J	10.0	12.22		mg/L		121	75 - 125

Lab Sample ID: 600-107953-5 DU — **Client Sample ID: 18 Base Solid**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 158134 — **Prep Batch: 158113**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	0.0125	U	0.0125	U	mg/L		NC	20
Arsenic	0.101		0.1060		mg/L		5	20
Barium	0.0360	J B	0.08000	J F5	mg/L		76	20
Cadmium	0.00350	U	0.00350	U	mg/L		NC	20
Chromium	0.0155	U	0.0155	U	mg/L		NC	20
Lead	0.0290	U	0.0290	U	mg/L		NC	20
Selenium	0.155	J	0.1630	J	mg/L		5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 600-158089/7-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158149 — **Prep Batch: 158089**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U	0.000200	0.0000820	mg/L		03/17/15 08:05	03/17/15 13:02	1

Lab Sample ID: LCS 600-158089/8-A ^50 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158149 — **Prep Batch: 158089**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.153	0.1538		mg/L		101	70 - 130

Lab Sample ID: LB 600-158077/1-C — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 158149 — **Prep Batch: 158089**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U	0.000200	0.0000820	mg/L		03/17/15 10:34	03/17/15 13:49	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 600-107953-5 MS — **Client Sample ID: 18 Base Solid**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 158149 — **Prep Batch: 158089**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.0000820	U F1	0.00300	0.001492	F1	mg/L		50	75 - 125		

Lab Sample ID: 600-107953-5 DU — **Client Sample ID: 18 Base Solid**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 158149 — **Prep Batch: 158089**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.0000820	U F1		0.0000820	U	mg/L				NC	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 600-157863/7-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 157880 — **Prep Batch: 157863**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00330	U	0.0157	0.00330	mg/Kg		03/13/15 07:46	03/13/15 09:10	1

Lab Sample ID: LCSSRM 600-157863/8-A ^50 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 157880 — **Prep Batch: 157863**

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.76	7.185		mg/Kg		124.7	71.2 - 128.6		

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 600-158136/1-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 158181 — **Prep Batch: 158136**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	0.0855	U	0.250	0.0855	mg/Kg		03/17/15 09:00	03/17/15 16:37	1

Lab Sample ID: LCS 600-158136/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158181 — **Prep Batch: 158136**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Reactive			1000	1.71	U	mg/Kg		0	0 - 200		

Method: 9023 - Organic Halides, Extractable (EOX)

Lab Sample ID: MB 240-172371/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 172475 — **Prep Batch: 172371**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	33.8	U	199	33.8	mg/Kg		03/17/15 08:20	03/17/15 10:55	1

Lab Sample ID: LCS 240-172371/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 172475 — **Prep Batch: 172371**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Extractable Organic	1000	980.4		mg/Kg		98	75 - 125

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

Lab Sample ID: MB 600-158136/1-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 158177 — **Prep Batch: 158136**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	14.0	U	50.0	14.0	mg/Kg		03/17/15 09:00	03/17/15 16:30	1

Lab Sample ID: LCS 600-158136/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 158177 — **Prep Batch: 158136**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	1000	140.0		mg/Kg		14	0 - 200

Method: 9040B - pH

Lab Sample ID: LCS 600-158178/26 — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 158178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.020		SU		100	99 - 101

Method: 9045C - Corrosivity

Lab Sample ID: LCS 600-158178/1 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.020		SU		100	99 - 101

Method: 9056 - Total Halogens(Bomb Calorimeter followed by IC)

Lab Sample ID: MB 400-250088/1-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 250164 — **Prep Batch: 250088**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Halogens	195	U	195	195	mg/Kg		03/16/15 11:34	03/17/15 13:48	1
Chloride	195	U	195	195	mg/Kg		03/16/15 11:34	03/17/15 13:48	1
Fluoride	38.9	U	38.9	38.9	mg/Kg		03/16/15 11:34	03/17/15 13:48	1
Bromide	195	U	195	195	mg/Kg		03/16/15 11:34	03/17/15 13:48	1

Lab Sample ID: LCS 400-250088/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 250164 — **Prep Batch: 250088**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Halogens	2900	2300		mg/Kg		79	60 - 140
Chloride	968	885.5		mg/Kg		91	60 - 140
Fluoride	968	675.4		mg/Kg		70	60 - 140
Bromide	968	738.7		mg/Kg		76	60 - 140

Lab Sample ID: 600-107953-4 MS — **Client Sample ID: 17 Base LIQ**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 250164 — **Prep Batch: 250088**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Halogens	119	U F1	355	118	U F1	mg/Kg		0	60 - 140
Chloride	119	U F1	118	118	U F1	mg/Kg		0	60 - 140
Fluoride	23.9	U F1 F2	118	49.17	F1	mg/Kg		42	60 - 140
Bromide	119	U F1	118	118	U F1	mg/Kg		0	60 - 140

Lab Sample ID: 600-107953-4 MSD — **Client Sample ID: 17 Base LIQ**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 250164 — **Prep Batch: 250088**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Halogens	119	U F1	365	122	U F1	mg/Kg		0	60 - 140	NC	30
Chloride	119	U F1	122	122	U	mg/Kg		NC	60 - 140	NC	30
Fluoride	23.9	U F1 F2	122	77.01	F2	mg/Kg		63	60 - 140	44	30
Bromide	119	U F1	122	122	U	mg/Kg		NC	60 - 140	NC	30

Method: D92 - Flashpoint

Lab Sample ID: MB 600-158175/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158175

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>186		1.00	1.00	Degrees F			03/17/15 07:35	1

Method: D92 - Flashpoint (Continued)

Lab Sample ID: LCS 600-158175/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158175

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	96.9 - 103.1 09

Lab Sample ID: 600-107953-5 DU — **Client Sample ID: 18 Base Solid**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 158175

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>212		>212		Degrees F		NC	20

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 600-157982/27-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 157983 — **Prep Batch: 157982**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as PO4	1.31	U	5.00	1.31	mg/Kg		03/16/15 06:05	03/16/15 06:17	1

Lab Sample ID: LCS 600-157982/28-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 157983 — **Prep Batch: 157982**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus as PO4	153	156.1		mg/Kg		102	90 - 110

Lab Sample ID: 600-107953-1 MS — **Client Sample ID: 10 Acid OXI**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 157983 — **Prep Batch: 157982**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus as PO4	1.28	U	153	156.1		mg/Kg		102	75 - 125

Lab Sample ID: 600-107953-1 MSD — **Client Sample ID: 10 Acid OXI**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 157983 — **Prep Batch: 157982**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus as PO4	1.28	U	156	160.5		mg/Kg		103	75 - 125	3	20

QC Association Summary

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

GC/MS VOA

Leach Batch: 135884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	TCLP	Solid	1311	
LB 180-135884/9-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 135966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	TCLP	Solid	8260B	135884
LB 180-135884/9-A	Method Blank	TCLP	Solid	8260B	135884
LCS 180-135966/10	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 157974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	Total/NA	Solid	8260B	157976
LCS 600-157974/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-157974/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 600-157974/6	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 157976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	Total/NA	Solid	5030B	

Analysis Batch: 157996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	8260B	158002
600-107953-2	12 Acid OXI	Total/NA	Waste	8260B	158002
600-107953-3	16 Base LIQ	Total/NA	Waste	8260B	158002
600-107953-4	17 Base LIQ	Total/NA	Waste	8260B	158002
LCS 600-158002/1-A	Lab Control Sample	Total/NA	Waste	8260B	158002
LCSD 600-158002/2-A	Lab Control Sample Dup	Total/NA	Waste	8260B	158002
MB 600-158002/3-A	Method Blank	Total/NA	Waste	8260B	158002

Prep Batch: 158002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	5030B	
600-107953-2	12 Acid OXI	Total/NA	Waste	5030B	
600-107953-3	16 Base LIQ	Total/NA	Waste	5030B	
600-107953-4	17 Base LIQ	Total/NA	Waste	5030B	
LCS 600-158002/1-A	Lab Control Sample	Total/NA	Waste	5030B	
LCSD 600-158002/2-A	Lab Control Sample Dup	Total/NA	Waste	5030B	
MB 600-158002/3-A	Method Blank	Total/NA	Waste	5030B	

GC/MS Semi VOA

Prep Batch: 157841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	Total/NA	Solid	3546	
LCS 600-157841/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 600-157841/1-A	Method Blank	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 157871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-4	17 Base LIQ	Total/NA	Waste	3580A	
LCS 600-157871/2-A	Lab Control Sample	Total/NA	Waste	3580A	
MB 600-157871/1-A	Method Blank	Total/NA	Waste	3580A	

Prep Batch: 157920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-7	10 Acid OXI	Total/NA	Water	3510C	
600-107953-8	12 Acid OXI	Total/NA	Water	3510C	
600-107953-9 - DL	16 Base LIQ	Total/NA	Water	3510C	
600-107953-9	16 Base LIQ	Total/NA	Water	3510C	
LCS 600-157920/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 600-157920/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 157921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-157841/2-A	Lab Control Sample	Total/NA	Solid	8270C	157841
MB 600-157841/1-A	Method Blank	Total/NA	Solid	8270C	157841

Analysis Batch: 157980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-4	17 Base LIQ	Total/NA	Waste	8270C	157871
600-107953-5	18 Base Solid	Total/NA	Solid	8270C	157841
600-107953-7	10 Acid OXI	Total/NA	Water	8270C	157920
600-107953-8	12 Acid OXI	Total/NA	Water	8270C	157920
600-107953-9	16 Base LIQ	Total/NA	Water	8270C	157920
LCS 600-157871/2-A	Lab Control Sample	Total/NA	Waste	8270C	157871
LCS 600-157920/2-A	Lab Control Sample	Total/NA	Water	8270C	157920
MB 600-157871/1-A	Method Blank	Total/NA	Waste	8270C	157871
MB 600-157920/1-A	Method Blank	Total/NA	Water	8270C	157920

Leach Batch: 158077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	TCLP	Solid	1311	
LB 600-158077/1-D	Method Blank	TCLP	Solid	1311	

Analysis Batch: 158080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-9 - DL	16 Base LIQ	Total/NA	Water	8270C	157920

Analysis Batch: 158081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	TCLP	Solid	8270C	158120
LB 600-158077/1-D	Method Blank	TCLP	Solid	8270C	158120
LCS 600-158120/2-A	Lab Control Sample	Total/NA	Solid	8270C	158120
MB 600-158120/1-A	Method Blank	Total/NA	Solid	8270C	158120

Prep Batch: 158120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	TCLP	Solid	3510C	158077
LB 600-158077/1-D	Method Blank	TCLP	Solid	3510C	158077
LCS 600-158120/2-A	Lab Control Sample	Total/NA	Solid	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 158120 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-158120/1-A	Method Blank	Total/NA	Solid	3510C	

GC Semi VOA

Analysis Batch: 157794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-2	12 Acid OXI	Total/NA	Waste	TX 1005	157795
600-107953-3	16 Base LIQ	Total/NA	Waste	TX 1005	157795
600-107953-4	17 Base LIQ	Total/NA	Waste	TX 1005	157795
LCS 600-157795/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	157795
LCSD 600-157795/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	157795
MB 600-157795/1-A	Method Blank	Total/NA	Solid	TX 1005	157795

Prep Batch: 157795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-2	12 Acid OXI	Total/NA	Waste	TX_1005_S_Prep	
600-107953-3	16 Base LIQ	Total/NA	Waste	TX_1005_S_Prep	
600-107953-4	17 Base LIQ	Total/NA	Waste	TX_1005_S_Prep	
600-107953-5 - DL	18 Base Solid	Total/NA	Solid	TX_1005_S_Prep	
LCS 600-157795/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Prep	
LCSD 600-157795/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Prep	
MB 600-157795/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Prep	

Analysis Batch: 157831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5 - DL	18 Base Solid	Total/NA	Solid	TX 1005	157795

Analysis Batch: 158019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	TX 1005	158029
LCS 600-158029/2-A	Lab Control Sample	Total/NA	Waste	TX 1005	158029
LCSD 600-158029/3-A	Lab Control Sample Dup	Total/NA	Waste	TX 1005	158029
MB 600-158029/1-A	Method Blank	Total/NA	Waste	TX 1005	158029

Prep Batch: 158029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	TX_1005_S_Prep	
LCS 600-158029/2-A	Lab Control Sample	Total/NA	Waste	TX_1005_S_Prep	
LCSD 600-158029/3-A	Lab Control Sample Dup	Total/NA	Waste	TX_1005_S_Prep	
MB 600-158029/1-A	Method Blank	Total/NA	Waste	TX_1005_S_Prep	

QC Association Summary

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

HPLC/IC

Analysis Batch: 158011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	Soluble	Solid	300.0	158012
600-107953-5 MS	18 Base Solid	Soluble	Solid	300.0	158012
600-107953-5 MSD	18 Base Solid	Soluble	Solid	300.0	158012
LCS 600-158012/2-A	Lab Control Sample	Soluble	Solid	300.0	158012
MB 600-158012/1-A	Method Blank	Soluble	Solid	300.0	158012

Leach Batch: 158012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	Soluble	Solid	DI Leach	
600-107953-5 MS	18 Base Solid	Soluble	Solid	DI Leach	
600-107953-5 MSD	18 Base Solid	Soluble	Solid	DI Leach	
LCS 600-158012/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 600-158012/1-A	Method Blank	Soluble	Solid	DI Leach	

Metals

Prep Batch: 157863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	Total/NA	Solid	7471A	
LCSSRM 600-157863/8-A ^50	Lab Control Sample	Total/NA	Solid	7471A	
MB 600-157863/7-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 157880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	Total/NA	Solid	7471A	157863
LCSSRM 600-157863/8-A ^50	Lab Control Sample	Total/NA	Solid	7471A	157863
MB 600-157863/7-A	Method Blank	Total/NA	Solid	7471A	157863

Leach Batch: 158077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	TCLP	Solid	1311	
600-107953-5 DU	18 Base Solid	TCLP	Solid	1311	
600-107953-5 MS	18 Base Solid	TCLP	Solid	1311	
LB 600-158077/1-B	Method Blank	TCLP	Solid	1311	
LB 600-158077/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 158089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	TCLP	Solid	7470A	158077
600-107953-5 DU	18 Base Solid	TCLP	Solid	7470A	158077
600-107953-5 MS	18 Base Solid	TCLP	Solid	7470A	158077
LB 600-158077/1-C	Method Blank	TCLP	Solid	7470A	158077
LCS 600-158089/8-A ^50	Lab Control Sample	Total/NA	Solid	7470A	
MB 600-158089/7-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 158113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	TCLP	Solid	3010A	158077
600-107953-5 DU	18 Base Solid	TCLP	Solid	3010A	158077
600-107953-5 MS	18 Base Solid	TCLP	Solid	3010A	158077

Metals (Continued)

Prep Batch: 158113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 600-158077/1-B	Method Blank	TCLP	Solid	3010A	158077
LCS 600-158113/2-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 600-158113/1-A	Method Blank	Total/NA	Solid	3010A	

Analysis Batch: 158134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	TCLP	Solid	6010B	158113
600-107953-5 DU	18 Base Solid	TCLP	Solid	6010B	158113
600-107953-5 MS	18 Base Solid	TCLP	Solid	6010B	158113
LB 600-158077/1-B	Method Blank	TCLP	Solid	6010B	158113
LCS 600-158113/2-A	Lab Control Sample	Total/NA	Solid	6010B	158113
MB 600-158113/1-A	Method Blank	Total/NA	Solid	6010B	158113

Analysis Batch: 158149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	TCLP	Solid	7470A	158089
600-107953-5 DU	18 Base Solid	TCLP	Solid	7470A	158089
600-107953-5 MS	18 Base Solid	TCLP	Solid	7470A	158089
LB 600-158077/1-C	Method Blank	TCLP	Solid	7470A	158089
LCS 600-158089/8-A ^50	Lab Control Sample	Total/NA	Solid	7470A	158089
MB 600-158089/7-A	Method Blank	Total/NA	Solid	7470A	158089

Prep Batch: 233898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	3051A	
600-107953-2	12 Acid OXI	Total/NA	Waste	3051A	
600-107953-3	16 Base LIQ	Total/NA	Waste	3051A	
600-107953-4	17 Base LIQ	Total/NA	Waste	3051A	
600-107953-5	18 Base Solid	Total/NA	Solid	3051A	
LCS 490-233898/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 490-233898/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
MB 490-233898/1-A	Method Blank	Total/NA	Solid	3051A	

Analysis Batch: 233991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	6010B	233898
600-107953-2	12 Acid OXI	Total/NA	Waste	6010B	233898
600-107953-3	16 Base LIQ	Total/NA	Waste	6010B	233898
600-107953-4	17 Base LIQ	Total/NA	Waste	6010B	233898
600-107953-5	18 Base Solid	Total/NA	Solid	6010B	233898
LCS 490-233898/2-A	Lab Control Sample	Total/NA	Solid	6010B	233898
LCSD 490-233898/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	233898
MB 490-233898/1-A	Method Blank	Total/NA	Solid	6010B	233898

Analysis Batch: 234038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	6010B	233898
600-107953-1	10 Acid OXI	Total/NA	Waste	6010B	233898
600-107953-2	12 Acid OXI	Total/NA	Waste	6010B	233898
600-107953-2	12 Acid OXI	Total/NA	Waste	6010B	233898
600-107953-3	16 Base LIQ	Total/NA	Waste	6010B	233898

Metals (Continued)

Analysis Batch: 234038 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-4	17 Base LIQ	Total/NA	Waste	6010B	233898
LCS 490-233898/2-A	Lab Control Sample	Total/NA	Solid	6010B	233898
LCSD 490-233898/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	233898
MB 490-233898/1-A	Method Blank	Total/NA	Solid	6010B	233898

Analysis Batch: 234979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	Total/NA	Solid	6010B	233898
600-107953-5	18 Base Solid	Total/NA	Solid	6010B	233898

General Chemistry

Analysis Batch: 113932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-2	12 Acid OXI	Total/NA	Waste	D1796	
600-107953-3	16 Base LIQ	Total/NA	Waste	D1796	
600-107953-4	17 Base LIQ	Total/NA	Waste	D1796	

Analysis Batch: 114016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	Total/NA	Solid	D1796	

Analysis Batch: 114238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	D1796	

Prep Batch: 157982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	SM 4500 P B	
600-107953-1 MS	10 Acid OXI	Total/NA	Waste	SM 4500 P B	
600-107953-1 MSD	10 Acid OXI	Total/NA	Waste	SM 4500 P B	
600-107953-2	12 Acid OXI	Total/NA	Waste	SM 4500 P B	
600-107953-3	16 Base LIQ	Total/NA	Waste	SM 4500 P B	
600-107953-4	17 Base LIQ	Total/NA	Waste	SM 4500 P B	
600-107953-5	18 Base Solid	Total/NA	Solid	SM 4500 P B	
LCS 600-157982/28-A	Lab Control Sample	Total/NA	Solid	SM 4500 P B	
MB 600-157982/27-A	Method Blank	Total/NA	Solid	SM 4500 P B	

Analysis Batch: 157983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	SM 4500 P E	157982
600-107953-1 MS	10 Acid OXI	Total/NA	Waste	SM 4500 P E	157982
600-107953-1 MSD	10 Acid OXI	Total/NA	Waste	SM 4500 P E	157982
600-107953-2	12 Acid OXI	Total/NA	Waste	SM 4500 P E	157982
600-107953-3	16 Base LIQ	Total/NA	Waste	SM 4500 P E	157982
600-107953-4	17 Base LIQ	Total/NA	Waste	SM 4500 P E	157982
600-107953-5	18 Base Solid	Total/NA	Solid	SM 4500 P E	157982
LCS 600-157982/28-A	Lab Control Sample	Total/NA	Solid	SM 4500 P E	157982
MB 600-157982/27-A	Method Blank	Total/NA	Solid	SM 4500 P E	157982

General Chemistry (Continued)

Prep Batch: 158136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	7.3.4	
600-107953-2	12 Acid OXI	Total/NA	Waste	7.3.4	
600-107953-3	16 Base LIQ	Total/NA	Waste	7.3.4	
600-107953-4	17 Base LIQ	Total/NA	Waste	7.3.4	
600-107953-5	18 Base Solid	Total/NA	Solid	7.3.4	
LCS 600-158136/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCS 600-158136/3-A	Lab Control Sample	Total/NA	Waste	7.3.4	
MB 600-158136/1-A	Method Blank	Total/NA	Waste	7.3.4	

Analysis Batch: 158175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	1010	
600-107953-2	12 Acid OXI	Total/NA	Waste	1010	
600-107953-3	16 Base LIQ	Total/NA	Waste	1010	
600-107953-4	17 Base LIQ	Total/NA	Waste	1010	
600-107953-5	18 Base Solid	Total/NA	Solid	D92	
600-107953-5 DU	18 Base Solid	Total/NA	Solid	D92	
LCS 600-158175/2	Lab Control Sample	Total/NA	Solid	D92	
MB 600-158175/1	Method Blank	Total/NA	Solid	D92	

Analysis Batch: 158177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	9034	158136
600-107953-2	12 Acid OXI	Total/NA	Waste	9034	158136
600-107953-3	16 Base LIQ	Total/NA	Waste	9034	158136
600-107953-4	17 Base LIQ	Total/NA	Waste	9034	158136
600-107953-5	18 Base Solid	Total/NA	Solid	7.4.4	158136
LCS 600-158136/3-A	Lab Control Sample	Total/NA	Waste	9034	158136
MB 600-158136/1-A	Method Blank	Total/NA	Waste	9034	158136

Analysis Batch: 158178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	9040B	
600-107953-3	16 Base LIQ	Total/NA	Waste	9040B	
600-107953-4	17 Base LIQ	Total/NA	Waste	9040B	
600-107953-5	18 Base Solid	Total/NA	Solid	9045C	
LCS 600-158178/1	Lab Control Sample	Total/NA	Solid	9045C	
LCS 600-158178/26	Lab Control Sample	Total/NA	Waste	9040B	

Analysis Batch: 158181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	9012	158136
600-107953-2	12 Acid OXI	Total/NA	Waste	9012	158136
600-107953-3	16 Base LIQ	Total/NA	Waste	9012	158136
600-107953-4	17 Base LIQ	Total/NA	Waste	9012	158136
600-107953-5	18 Base Solid	Total/NA	Solid	9012	158136
LCS 600-158136/2-A	Lab Control Sample	Total/NA	Solid	9012	158136
MB 600-158136/1-A	Method Blank	Total/NA	Waste	9012	158136

General Chemistry (Continued)

Prep Batch: 172371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	Total/NA	Solid	9023	
LCS 240-172371/4-A	Lab Control Sample	Total/NA	Solid	9023	
MB 240-172371/3-A	Method Blank	Total/NA	Solid	9023	

Analysis Batch: 172475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-5	18 Base Solid	Total/NA	Solid	9023	172371
LCS 240-172371/4-A	Lab Control Sample	Total/NA	Solid	9023	172371
MB 240-172371/3-A	Method Blank	Total/NA	Solid	9023	172371

Prep Batch: 250088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	5050	
600-107953-2	12 Acid OXI	Total/NA	Waste	5050	
600-107953-3	16 Base LIQ	Total/NA	Waste	5050	
600-107953-4	17 Base LIQ	Total/NA	Waste	5050	
600-107953-4 MS	17 Base LIQ	Total/NA	Waste	5050	
600-107953-4 MSD	17 Base LIQ	Total/NA	Waste	5050	
LCS 400-250088/2-A	Lab Control Sample	Total/NA	Waste	5050	
MB 400-250088/1-A	Method Blank	Total/NA	Waste	5050	

Analysis Batch: 250164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	9056	250088
600-107953-2	12 Acid OXI	Total/NA	Waste	9056	250088
600-107953-3	16 Base LIQ	Total/NA	Waste	9056	250088
600-107953-4	17 Base LIQ	Total/NA	Waste	9056	250088
600-107953-4 MS	17 Base LIQ	Total/NA	Waste	9056	250088
600-107953-4 MSD	17 Base LIQ	Total/NA	Waste	9056	250088
LCS 400-250088/2-A	Lab Control Sample	Total/NA	Waste	9056	250088
MB 400-250088/1-A	Method Blank	Total/NA	Waste	9056	250088

Analysis Batch: 250305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-1	10 Acid OXI	Total/NA	Waste	9056	250088

Lab Chronicle

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 10 Acid OXI

Lab Sample ID: 600-107953-1

Date Collected: 03/11/15 10:10

Matrix: Waste

Date Received: 03/11/15 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			1 g	10 mL	158002	03/16/15 10:00	KLV	TAL HOU
Total/NA	Analysis	8260B		1	1 g	10 mL	157996	03/16/15 18:02	KLV	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			10.10 g	10.00 mL	158029	03/16/15 14:32	NVP	TAL HOU
Total/NA	Analysis	TX 1005		1	10.10 g	10.00 mL	158019	03/17/15 02:52	JPS	TAL HOU
Total/NA	Prep	3051A			0.517 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.517 g	100 mL	233991	03/16/15 15:36	LEG	TAL NSH
Total/NA	Prep	3051A			0.517 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.517 g	100 mL	234038	03/16/15 23:45	LEG	TAL NSH
Total/NA	Prep	3051A			0.517 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		10	0.517 g	100 mL	234038	03/16/15 23:58	LEG	TAL NSH
Total/NA	Analysis	1010		1			158175	03/17/15 07:35	MJB	TAL HOU
Total/NA	Prep	7.3.4			10.12 g	250 mL	158136	03/17/15 09:00	MJB	TAL HOU
Total/NA	Analysis	9012		1	10.12 g	250 mL	158181	03/17/15 16:40	BDG	TAL HOU
Total/NA	Prep	7.3.4			10.12 g	250 mL	158136	03/17/15 09:00	MJB	TAL HOU
Total/NA	Analysis	9034		1	10.12 g	250 mL	158177	03/17/15 16:30	BDG	TAL HOU
Total/NA	Analysis	9040B		1		20 mL	158178	03/17/15 13:30	MJB	TAL HOU
Total/NA	Prep	5050			0.7729 g	100 mL	250088	03/16/15 14:08	KJR	TAL PEN
Total/NA	Analysis	9056		1	0.7729 g	100 mL	250164	03/17/15 18:46	TAJ	TAL PEN
Total/NA	Prep	5050			0.7729 g	100 mL	250088	03/16/15 14:08	KJR	TAL PEN
Total/NA	Analysis	9056		10	0.7729 g	100 mL	250305	03/18/15 11:58	TAJ	TAL PEN
Total/NA	Analysis	D1796		1	50 mL	50 mL	114238	03/26/15 15:00	EDR	TAL CC
Total/NA	Prep	SM 4500 P B			0.51 g	50 mL	157982	03/16/15 06:05	SC1	TAL HOU
Total/NA	Analysis	SM 4500 P E		1	0.51 g	50 mL	157983	03/16/15 06:17	SC1	TAL HOU

Client Sample ID: 12 Acid OXI

Lab Sample ID: 600-107953-2

Date Collected: 03/11/15 10:20

Matrix: Waste

Date Received: 03/11/15 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			1 g	10 mL	158002	03/16/15 10:00	KLV	TAL HOU
Total/NA	Analysis	8260B		1	1 g	10 mL	157996	03/16/15 18:26	KLV	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			01.00 g	10.00 mL	157795	03/12/15 10:04	NVP	TAL HOU
Total/NA	Analysis	TX 1005		1	01.00 g	10.00 mL	157794	03/12/15 18:44	RJV	TAL HOU
Total/NA	Prep	3051A			0.524 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.524 g	100 mL	233991	03/16/15 15:41	LEG	TAL NSH
Total/NA	Prep	3051A			0.524 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.524 g	100 mL	234038	03/17/15 00:02	LEG	TAL NSH
Total/NA	Prep	3051A			0.524 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		10	0.524 g	100 mL	234038	03/17/15 00:07	LEG	TAL NSH
Total/NA	Analysis	1010		1			158175	03/17/15 07:35	MJB	TAL HOU
Total/NA	Prep	7.3.4			10.01 g	250 mL	158136	03/17/15 09:00	MJB	TAL HOU
Total/NA	Analysis	9012		1	10.01 g	250 mL	158181	03/17/15 16:41	BDG	TAL HOU
Total/NA	Prep	7.3.4			10.01 g	250 mL	158136	03/17/15 09:00	MJB	TAL HOU

Lab Chronicle

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 12 Acid OXI — Lab Sample ID: 600-107953-2

Date Collected: 03/11/15 10:20 — **Matrix: Waste**
Date Received: 03/11/15 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9034		1	10.01 g	250 mL	158177	03/17/15 16:30	BDG	TAL HOU
Total/NA	Prep	5050			0.7683 g	100 mL	250088	03/16/15 14:15	KJR	TAL PEN
Total/NA	Analysis	9056		1	0.7683 g	100 mL	250164	03/17/15 19:09	TAJ	TAL PEN
Total/NA	Analysis	D1796		1	100 mL	100 mL	113932	03/17/15 15:00	EDR	TAL CC
Total/NA	Prep	SM 4500 P B			0.49 g	50 mL	157982	03/16/15 06:05	SC1	TAL HOU
Total/NA	Analysis	SM 4500 P E		1	0.49 g	50 mL	157983	03/16/15 06:17	SC1	TAL HOU

Client Sample ID: 16 Base LIQ — Lab Sample ID: 600-107953-3

Date Collected: 03/11/15 10:01 — **Matrix: Waste**
Date Received: 03/11/15 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			1 g	10 mL	158002	03/16/15 10:00	KLV	TAL HOU
Total/NA	Analysis	8260B		4	1 g	10 mL	157996	03/16/15 19:15	KLV	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			01.00 g	10.00 mL	157795	03/12/15 10:04	NVP	TAL HOU
Total/NA	Analysis	TX 1005		1	01.00 g	10.00 mL	157794	03/12/15 19:16	RJV	TAL HOU
Total/NA	Prep	3051A			0.507 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.507 g	100 mL	233991	03/16/15 15:45	LEG	TAL NSH
Total/NA	Prep	3051A			0.507 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.507 g	100 mL	234038	03/17/15 00:11	LEG	TAL NSH
Total/NA	Analysis	1010		1			158175	03/17/15 07:35	MJB	TAL HOU
Total/NA	Prep	7.3.4			10.08 g	250 mL	158136	03/17/15 09:00	MJB	TAL HOU
Total/NA	Analysis	9012		1	10.08 g	250 mL	158181	03/17/15 16:43	BDG	TAL HOU
Total/NA	Prep	7.3.4			10.08 g	250 mL	158136	03/17/15 09:00	MJB	TAL HOU
Total/NA	Analysis	9034		1	10.08 g	250 mL	158177	03/17/15 16:30	BDG	TAL HOU
Total/NA	Analysis	9040B		1		20 mL	158178	03/17/15 13:30	MJB	TAL HOU
Total/NA	Prep	5050			0.6983 g	100 mL	250088	03/16/15 14:26	KJR	TAL PEN
Total/NA	Analysis	9056		1	0.6983 g	100 mL	250164	03/17/15 19:32	TAJ	TAL PEN
Total/NA	Analysis	D1796		1	100 mL	100 mL	113932	03/17/15 15:00	EDR	TAL CC
Total/NA	Prep	SM 4500 P B			0.48 g	50 mL	157982	03/16/15 06:05	SC1	TAL HOU
Total/NA	Analysis	SM 4500 P E		1	0.48 g	50 mL	157983	03/16/15 06:17	SC1	TAL HOU

Client Sample ID: 17 Base LIQ — Lab Sample ID: 600-107953-4

Date Collected: 03/11/15 10:08 — **Matrix: Waste**
Date Received: 03/11/15 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			1 g	10 mL	158002	03/16/15 10:00	KLV	TAL HOU
Total/NA	Analysis	8260B		1	1 g	10 mL	157996	03/16/15 20:04	KLV	TAL HOU
Total/NA	Prep	3580A			1.08 g	10.0 mL	157871	03/13/15 09:07	RLK	TAL HOU
Total/NA	Analysis	8270C		10	1.08 g	10.0 mL	157980	03/16/15 12:06	KP1	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			01.00 g	10.00 mL	157795	03/12/15 10:04	NVP	TAL HOU
Total/NA	Analysis	TX 1005		1	01.00 g	10.00 mL	157794	03/12/15 19:48	RJV	TAL HOU

Client Sample ID: 17 Base LIQ

Lab Sample ID: 600-107953-4

Date Collected: 03/11/15 10:08

Matrix: Waste

Date Received: 03/11/15 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			0.508 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.508 g	100 mL	233991	03/16/15 15:50	LEG	TAL NSH
Total/NA	Prep	3051A			0.508 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.508 g	100 mL	234038	03/17/15 00:16	LEG	TAL NSH
Total/NA	Analysis	1010		1			158175	03/17/15 07:35	MJB	TAL HOU
Total/NA	Prep	7.3.4			10.17 g	250 mL	158136	03/17/15 09:00	MJB	TAL HOU
Total/NA	Analysis	9012		1	10.17 g	250 mL	158181	03/17/15 16:44	BDG	TAL HOU
Total/NA	Prep	7.3.4			10.17 g	250 mL	158136	03/17/15 09:00	MJB	TAL HOU
Total/NA	Analysis	9034		1	10.17 g	250 mL	158177	03/17/15 16:30	BDG	TAL HOU
Total/NA	Analysis	9040B		1		20 mL	158178	03/17/15 13:30	MJB	TAL HOU
Total/NA	Prep	5050			0.8370 g	100 mL	250088	03/16/15 14:37	KJR	TAL PEN
Total/NA	Analysis	9056		1	0.8370 g	100 mL	250164	03/17/15 19:54	TAJ	TAL PEN
Total/NA	Analysis	D1796		1	100 mL	100 mL	113932	03/17/15 15:00	EDR	TAL CC
Total/NA	Prep	SM 4500 P B			0.5 g	50 mL	157982	03/16/15 06:05	SC1	TAL HOU
Total/NA	Analysis	SM 4500 P E		1	0.5 g	50 mL	157983	03/16/15 06:17	SC1	TAL HOU

Client Sample ID: 18 Base Solid

Lab Sample ID: 600-107953-5

Date Collected: 03/11/15 09:45

Matrix: Solid

Date Received: 03/11/15 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	135884	03/18/15 14:00	CA1	TAL PIT
TCLP	Analysis	8260B		1	0.125 mL	5 mL	135966	03/19/15 13:43	PJJ	TAL PIT
Total/NA	Prep	5030B			1.01 g	5 mL	157976	03/15/15 12:59	WS1	TAL HOU
Total/NA	Analysis	8260B		1	1.01 g	5 mL	157974	03/15/15 16:04	WS1	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	158077	03/16/15 21:26	RT1	TAL HOU
TCLP	Prep	3510C			200 mL	1.0 mL	158120	03/17/15 11:00	SMB	TAL HOU
TCLP	Analysis	8270C		10	200 mL	1.0 mL	158081	03/17/15 17:32	KP1	TAL HOU
Total/NA	Prep	3546			15.39 g	7.00 mL	157841	03/12/15 15:46	MRA	TAL HOU
Total/NA	Analysis	8270C		50	15.39 g	7.00 mL	157980	03/16/15 18:09	KP1	TAL HOU
Total/NA	Prep	TX_1005_S_Prep	DL		10.06 g	10.00 mL	157795	03/12/15 10:04	NVP	TAL HOU
Total/NA	Analysis	TX 1005	DL	10	10.06 g	10.00 mL	157831	03/13/15 13:52	RJV	TAL HOU
Soluble	Leach	DI Leach			4.93 g	50 mL	158012	03/16/15 10:46	DAW	TAL HOU
Soluble	Analysis	300.0		5	5 mL		158011	03/16/15 14:01	DAW	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	158077	03/16/15 21:26	RT1	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	158113	03/17/15 10:18	NER	TAL HOU
TCLP	Analysis	6010B		1	5 mL	50 mL	158134	03/17/15 16:45	DCL	TAL HOU
Total/NA	Prep	3051A			0.511 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.511 g	100 mL	233991	03/16/15 14:47	LEG	TAL NSH
Total/NA	Prep	3051A			0.511 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.511 g	100 mL	234979	03/19/15 14:40	LEG	TAL NSH
Total/NA	Prep	3051A			0.511 g	100 mL	233898	03/16/15 11:10	NJB	TAL NSH
Total/NA	Analysis	6010B		10	0.511 g	100 mL	234979	03/19/15 14:45	LEG	TAL NSH

Lab Chronicle

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Client Sample ID: 18 Base Solid — Lab Sample ID: 600-107953-5

Date Collected: 03/11/15 09:45 — **Matrix: Solid**
Date Received: 03/11/15 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	158077	03/16/15 21:26	RT1	TAL HOU
TCLP	Prep	7470A			40 mL	40 mL	158089	03/17/15 10:34	SCG	TAL HOU
TCLP	Analysis	7470A		1	40 mL	40 mL	158149	03/17/15 13:51	SCG	TAL HOU
Total/NA	Prep	7471A			0.65 g	50 mL	157863	03/13/15 07:46	SCG	TAL HOU
Total/NA	Analysis	7471A		1	0.65 g	50 mL	157880	03/13/15 09:14	SCG	TAL HOU
Total/NA	Prep	7.3.4			10.04 g	250 mL	158136	03/17/15 09:00	MJB	TAL HOU
Total/NA	Analysis	7.4.4		1	10.04 g	250 mL	158177	03/17/15 16:30	BDG	TAL HOU
Total/NA	Prep	7.3.4			10.04 g	250 mL	158136	03/17/15 09:00	MJB	TAL HOU
Total/NA	Analysis	9012		1	10.04 g	250 mL	158181	03/17/15 16:44	BDG	TAL HOU
Total/NA	Prep	9023			2.05 g	10 mL	172371	03/17/15 08:20	LKG	TAL CAN
Total/NA	Analysis	9023		1	2.05 g	10 mL	172475	03/17/15 13:38	LKG	TAL CAN
Total/NA	Analysis	9045C		1		20 mL	158178	03/17/15 13:30	MJB	TAL HOU
Total/NA	Analysis	D1796		1	50 mL	50 mL	114016	03/19/15 14:00	EDR	TAL CC
Total/NA	Analysis	D92		1			158175	03/17/15 07:35	MJB	TAL HOU
Total/NA	Prep	SM 4500 P B			0.5 g	50 mL	157982	03/16/15 06:05	SC1	TAL HOU
Total/NA	Analysis	SM 4500 P E		10	0.5 g	50 mL	157983	03/16/15 06:17	SC1	TAL HOU

Client Sample ID: 10 Acid OXI — Lab Sample ID: 600-107953-7

Date Collected: 03/11/15 10:10 — **Matrix: Water**
Date Received: 03/11/15 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			10 mL	1.0 mL	157920	03/13/15 12:58	RLK	TAL HOU
Total/NA	Analysis	8270C		10	10 mL	1.0 mL	157980	03/16/15 16:30	KP1	TAL HOU

Client Sample ID: 12 Acid OXI — Lab Sample ID: 600-107953-8

Date Collected: 03/11/15 10:20 — **Matrix: Water**
Date Received: 03/11/15 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			10 mL	1.0 mL	157920	03/13/15 12:58	RLK	TAL HOU
Total/NA	Analysis	8270C		10	10 mL	1.0 mL	157980	03/16/15 17:03	KP1	TAL HOU

Client Sample ID: 16 Base LIQ — Lab Sample ID: 600-107953-9

Date Collected: 03/11/15 10:01 — **Matrix: Water**
Date Received: 03/11/15 12:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			20 mL	2.0 mL	157920	03/13/15 12:58	RLK	TAL HOU
Total/NA	Analysis	8270C		20	20 mL	2.0 mL	157980	03/16/15 17:36	KP1	TAL HOU
Total/NA	Prep	3510C	DL		20 mL	2.0 mL	157920	03/13/15 12:58	RLK	TAL HOU
Total/NA	Analysis	8270C	DL	100	20 mL	2.0 mL	158080	03/17/15 10:56	KP1	TAL HOU

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Certification Summary

Client: CB&I Federal Services LLC
Project/Site: Spent Acid/Base

TestAmerica Job ID: 600-107953-1

Laboratory: TestAmerica Houston

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704223	10-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7.4.4	7.3.4	Solid	Sulfide, Reactive
8260B	5030B	Solid	1,2-Dichloroethene, Total
8260B	5030B	Waste	1,2-Dichloroethene, Total
8270C	3510C	Water	3 & 4 Methylphenol
9012	7.3.4	Solid	Cyanide, Reactive
9012	7.3.4	Waste	Cyanide, Reactive
9034	7.3.4	Waste	Sulfide, Reactive
D92		Solid	Flashpoint
SM 4500 P E	SM 4500 P B	Solid	Phosphorus as PO4
SM 4500 P E	SM 4500 P B	Waste	Phosphorus as PO4
TX 1005	TX_1005_S_Prep	Solid	>C12-C28
TX 1005	TX_1005_S_Prep	Solid	>C28-C35
TX 1005	TX_1005_S_Prep	Solid	C6-C12
TX 1005	TX_1005_S_Prep	Waste	>C12-C28
TX 1005	TX_1005_S_Prep	Waste	>C28-C35
TX 1005	TX_1005_S_Prep	Waste	C6-C12

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	03-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-15 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

Laboratory: TestAmerica Corpus Christi

The certifications listed below are applicable to this report.

* Certification renewal pending - certification considered valid.

Laboratory: TestAmerica Corpus Christi (Continued)

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704210	03-31-15

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704077	08-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6010B	3051A	Solid	Sulfur
6010B	3051A	Waste	Sulfur

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-15
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-15
Florida	NELAP	4	E81010	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200041	10-09-15
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	03-31-15
Kentucky (UST)	State Program	4	53	06-30-15
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-15
Maryland	State Program	3	233	09-30-15
Michigan	State Program	5	9912	06-30-15
New Jersey	NELAP	2	FL006	06-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-15
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15
Tennessee	State Program	4	TN02907	06-30-15
Texas	NELAP	6	T104704286-12-5	09-30-15
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-15
West Virginia DEP	State Program	3	136	06-30-15

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	State Program	9	2891	03-31-15 *
Connecticut	State Program	1	PH-0688	09-30-16
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	03-31-15 *

* Certification renewal pending - certification considered valid.

Laboratory: TestAmerica Pittsburgh (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15 *
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15 *
North Carolina (WW/SW)	State Program	4	434	12-31-15
Pennsylvania	NELAP	3	02-00416	04-30-15 *
South Carolina	State Program	4	89014	04-30-15
Texas	NELAP	6	T104704528	03-31-16
US Fish & Wildlife	Federal		LE94312A-1	11-30-15
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-15
West Virginia DEP	State Program	3	142	01-31-16
Wisconsin	State Program	5	998027800	08-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

600-107953 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Daniel Tighe	Lab PM: Joiner, Dean A	Carrier Tracking No(s):	COC No. 600-32414-10868.1 3-10-2015
Client Contact: LeRoy Cassidey	Phone: 469.446.8408	E-Mail: dean.joiner@testamericainc.com		Page: Page 1 of 1
Company: CB&I Federal Services LLC				Job #:
Address: PO BOX 98519	Due Date Requested:			
City: Baton Rouge	TAT Requested (days): 5 WD Level 2			
State, Zip: LA 70884				
Phone: 469-446-8408	PO #: CB&I Federal Services 201241			
Email: leroy.cassidey@CBIFederalServices.com	WO #: Contract EP-S6-07-02 Task Order 62			
Project Name: CB&I Federal Services LLC – Houston	Project #: *** 60005919			
Site: CES Environmental Services	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total VOA	Total SVOA	Total Metals + Sulphur	RCI	TOX, TPH	Nitrates	Phosphates	TSS, % Water	TCLP VOA	TCLP SVOA	TCLP Metals + Sulphur			Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N	N	N	N		
10 Acid OXI	3/11/15	1010	G	Liquid			X	X	X	X	X	X	X	X							Please pour off 250 ml and preserve with Nitiric Acid
12 Acid OXI	3/11/15	1020	G	Liquid			X	X	X	X	X	X	X	X							Please pour off 250 ml and preserve with Nitiric Acid
16 Base LIQ	3/11/15	1001	G	Liquid			X	X	X	X	X	X	X	X							Please pour off 250 ml and preserve with Nitiric Acid
17 Base LiQ	3/11/15	1008	G	Liquid			X	X	X	X	X	X	X	X							Please pour off 250 ml and preserve with Nitiric Acid
18 Base Solid	3/11/15	0945	G	Solid			X	X	X	X	X	X	X	X	X	X	X				

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Waste Sample for Waste Characterization.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3.11.15 1152	Company	Received by:	Date/Time: 3/11/15 1152	Company
Relinquished by:	Date/Time: 3/11/15 1242	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Houston

Loc: 600

Sample Recei 107953 t

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

/Time Received.

JOB NUMBER. CLIENT CB&I

UNPACKED BY: CARRIER/DRIVER

Custody Seal Present: ☐ YES ☑ NO Number of Coolers Received: 2

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Them CF	Corrected Temp (°C)
WH/BC	Y / N	Y / N	1.6	606	-.1	1.5
WH/RD	Y / N	Y / N	1.8	606	-.1	1.7
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☐ NO ☐ YES

Base samples are>pH 12: ☐ YES ☐ NO Acid preserved are<pH 2: ☐ YES ☐ NO

pH paper Lot #

VOA headspace acceptable (5-6mm): ☑ YES ☐ NO ☐ NA

	YES	NO
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		

COMMENTS:

COC UNCLEAR ABOUT PRESERVATION

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-107953-1

Login Number: 107953

List Source: TestAmerica Houston

List Number: 1

Creator: Crafton, Tommie S

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	1.5 1.7
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-107953-1

Login Number: 107953
List Number: 3
Creator: Contreras, Kristen N

List Source: TestAmerica Corpus Christi
List Creation: 03/13/15 05:08 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-107953-1

Login Number: 107953
List Number: 8
Creator: Contreras, Kristen N

List Source: TestAmerica Corpus Christi
List Creation: 03/17/15 01:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-107953-1

Login Number: 107953
List Number: 9
Creator: Contreras, Kristen N

List Source: TestAmerica Corpus Christi
List Creation: 03/25/15 05:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-107953-1

Login Number: 107953
List Number: 2
Creator: Armstrong, Daniel

List Source: TestAmerica Nashville
List Creation: 03/13/15 02:07 PM

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.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	-0.4C
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.	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-107953-1

Login Number: 107953
List Number: 5
Creator: Armstrong, Daniel

List Source: TestAmerica Nashville
List Creation: 03/14/15 10:20 AM

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.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	3.0C
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.	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-107953-1

Login Number: 107953
List Number: 4
Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola
List Creation: 03/13/15 05:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	1.0°C IR-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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-107953-1

Login Number: 107953
List Number: 6
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 03/14/15 01:21 PM

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	
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	