



July 24, 2018

Mr. Mike Bratcher
New Mexico Oil Conservation Division – District 2
811 S. First Street
Artesia, NM 88210

**RE: Impacted Soil Removal, Disposal, and Site Restoration
 Foster Tank Battery Facility
 Eddy County, New Mexico
 Case Number 2RP-4503**

Mr. Bratcher:

WSP USA (WSP), is requesting closure of case number 2RP-4503, Foster Tank Battery – Eddy County (Figure 1), on behalf of Percussion Petroleum, LLC. (Percussion). Surface soils south of the pad at the Site was impacted with produced water from a flow line leak that occurred the last week of November 2017. Preliminary soil sample results indicated that an area of approximately 150 feet by 50 feet of surface soil to a depth of approximately 1 foot below grade was impacted with benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH), above New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (Guidelines) (Figure 2 and Table 1). The soils were also impacted with chlorides above the non-published NMOCD guidelines.

Per the scope of work., approved by NMOCD on March 27, 2018, WSP oversaw Dudley Sales and Service (Dudley) excavating approximately 300 cubic yards of petroleum hydrocarbon and chloride impacted soil from the impacted area, approximately 1.5 feet in depth. All soil was transported to R360 Environmental Solutions (R360) landfill in Lea County. Excavation was completed on June 21, 2018 and WSP collected confirmation samples per the approved sampling plan. Ten locations were selected and sampled at a depth of 2 feet, 3 feet, and 4 feet below the original ground surface (Figure 3). Samples were collected by hand auger and gloved hands and placed in clean sample containers supplied by the laboratory. Samples were placed on ice in a cooler provided by the laboratory and submitted to ALS Laboratory in Houston, Texas under strict chain of custody. Samples were transported via Fedex. The samples were analyzed for Total Petroleum Hydrocarbon (TPH) Gasoline Range Organics (GRO), diesel range organics (DRO) and oil range organics (ORO); benzene, toluene, ethylbenzene, and total xylenes (BTEX), and chlorides. Table 1 lists the post remediation sample results. All samples were below the NMOCD limits with the exception of S-2 at 3 feet in depth, which exhibited chlorides over the NMOCD limits. On July 9, 2018 WSP instructed Dudley to excavated an additional two feet in depth in the vicinity of sample point S-2. WSP collected confirmation samples following the additional excavation and submitted the samples to ALS Laboratory under the same protocol. Results of the additional samples were found to be below the NMOCD limits for chlorides. Following the NMOCD's approval for closure, the excavation will be backfilled with clean soil, compacted and seeded.

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2777 N. Stemmons Freeway
Suite 1600
Dallas, TX 75207

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wsp.com



We look forward to receiving approval of this closure request, please let me know if you have any question or require additional information.

Sincerely,

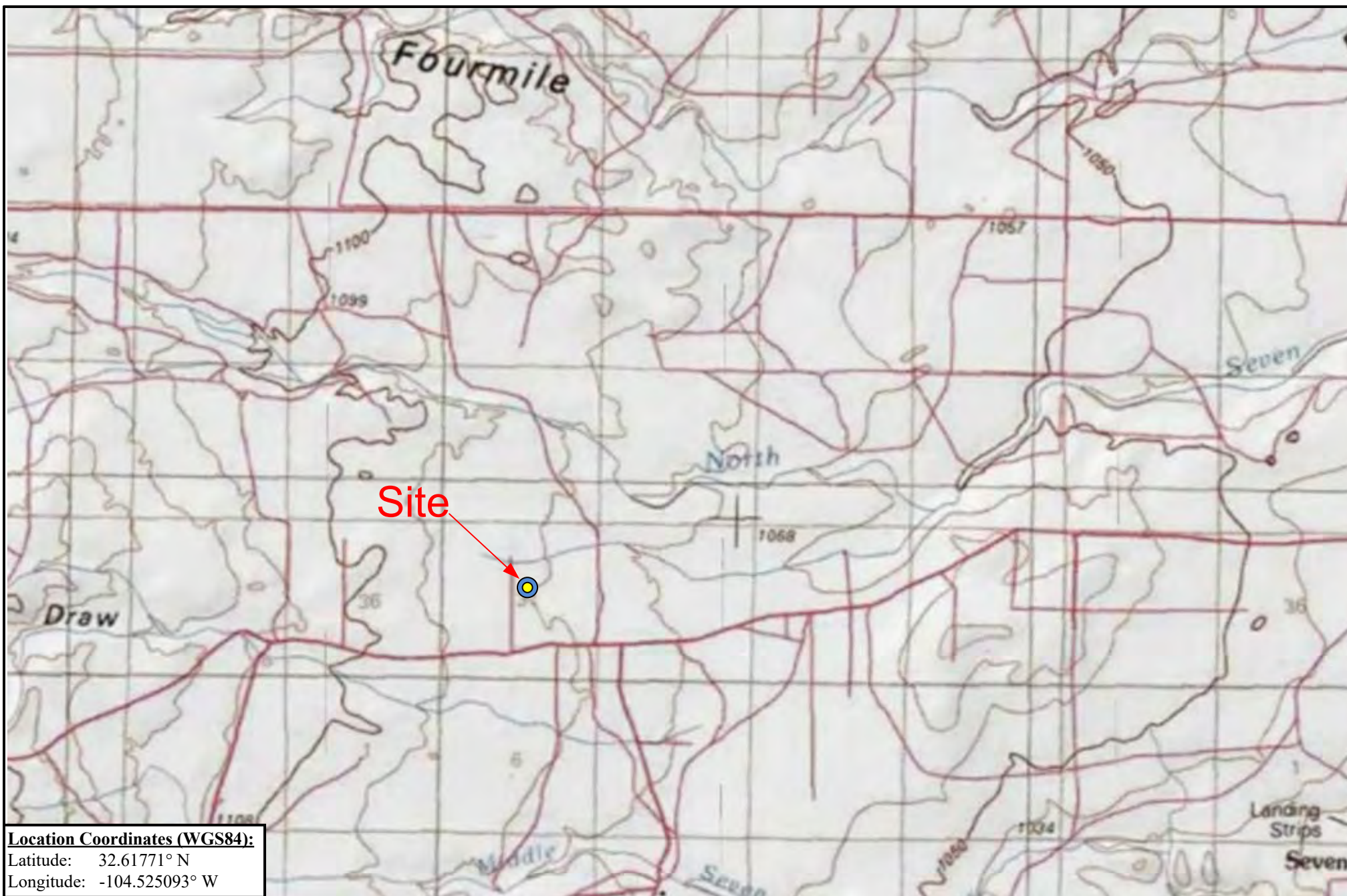
WSP-USA, INC.

A handwritten signature in black ink, appearing to read 'Matthew Boyle'.

Matthew Boyle
Sr. Environmental Scientist

A handwritten signature in black ink, appearing to read 'Charles D. Harlan'.

Charles D. Harlan, P.G.
Director, Business Development – Water & Environment
TX/Mountain Region



Location Coordinates (WGS84):

Latitude: 32.61771° N
 Longitude: -104.525093° W

Percussion Petroleum
 Dagger Draw-Foster Tank Battery
 Eddy County, New Mexico

Legend:

 - Site Location

(Source): Google Earth



(Not to Scale)



Site Location Map

WSP Project#: 31401117.000

12/7/2017

Figure 1



Location Coordinates (WGS84):
Latitude: 32.61771° N
Longitude: -104.525093° W

Percussion Petroleum
Dagger Draw-Foster Tank Battery
Eddy County, New Mexico

Legend:

-  Impacted Area
-  Sample Location
-  Surface Gradient



(Not to Scale)



Initial Soil Sample Location Map

WSP Project#: 31401117.000

12/7/2017

Figure 2



Location Coordinates (WGS84):

Latitude: 32.61771° N
 Longitude: -104.525093° W

Percussion Petroleum
 Dagger Draw-Foster Tank Battery
 Eddy County, New Mexico

Legend:

- Impacted Area
- Sample Location
- Surface Gradient



(Not to Scale)



Post Remediation Sample Location Map

WSP Project#: 31401117.000

6/21/2018

Figure 3

Table 1
Summary of Soil Sample Analytical Results

Sample ID	Sample Depth	Sample Date	Parameter								
			Chloride mg/kg	TPH-GRO	TPH-DRO	TPH-ORO	Total TPH mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Total Xylene mg/kg
CAS Number			16887-00-6	PHC612	PHCG1028	PHCG2835	PHC635	71-43-2	108-88-3	100-41-4	1330-20-7
PCLs for Soil to GW - Class I and II			600	5,000				10	50		
SS-1	0.5'	12/6/2017	10,400				1,550	u	3.5	5.7	15
SS-1	1.0'	12/6/2017	46				u	u	0.014	0.012	0.016
SS-2	0.5'	12/6/2017	6200				24,900	49	690	380	190
SS-2	1.0'	12/6/2017	2,900				u	0.023	0.066	0.068	0.180
SS-3	0.5'	12/6/2017	9,660				22,900	25	210	71	130
SS-3	1.0'	12/6/2017	23				u	0.015	0.027	0.018	0.035
SS-4	0.5'	12/6/2017	3,900				338	0.040	1.50	5.60	14.00
SS-4	1.0'	12/6/2017	7.8				u	u	0.0051	u	u
SS-5	0.5'	12/6/2017	6.09				u	u	0.014	0.014	0.022
SS-5	1.0'	12/6/2017	6.7				u	u	0.0067	0.0063	0.0083
Post Remediation Sampling											
S-1	2.0'	6/21/2018	71.5	u	0.51	8.1		u	u	u	u
S-1	3.0'	6/21/2018	101	u	u	5.5		u	u	u	u
S-2	2.0'	6/21/2018	3830	u	9.1	15		u	u	0.0015	u
S-2	3.0'	6/21/2018	564	u	2.6	13		u	u	u	u
S-2	4.0'	6/21/2018	419	u	3.8	6.4		u	u	u	u
S-3	2.0'	6/21/2018	4.66	0.04	11	11		u	u	u	u
S-3	3.0'	6/21/2018	4.31	u	1.5	17		u	u	u	u
S-3	4.0'	6/21/2018	5.64	0.048	5.9	8.6		u	u	u	u
S-4	2.0'	6/21/2018	177	u	4.7	12		u	u	u	u
S-4	3.0'	6/21/2018	237	u	3.1	10		u	u	u	u
S-4	4.0'	6/21/2018	209	u	1.1	7.5		u	u	u	u
S-5	2.0'	6/21/2018	180	u	21	46		u	u	u	u
S-5	3.0'	6/21/2018	20.1	u	2.9	10		u	u	u	u
S-5	4.0'	6/21/2018	13.6	u	2.5	12		u	u	u	u

Table 1
Summary of Soil Sample Analytical Results

Sample ID	Sample Depth	Sample Date	Parameter								
			Chloride mg/kg	TPH-GRO	TPH-DRO	TPH-ORO	Total TPH mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Total Xylene mg/kg
CAS Number			16887-00-6	PHC612	PHCG1028	PHCG2835	PHC635	71-43-2	108-88-3	100-41-4	1330-20-7
PCLs for Soil to GW - Class I and II			600	5,000				10	50		
S-6	2.0'	6/21/2018	12.9	0.039	u	6.1		u	u	u	u
S-6	3.0'	6/21/2018	2.98	0.025	10	12		u	u	u	u
S-6	4.0'	6/21/2018	3.3	0.038	12	140		u	u	u	u
S-7	2.0'	6/21/2018	44	u	0.5	7.5		u	u	u	u
S-7	3.0'	6/21/2018	6.17	u	1.2	15		u	u	u	u
S-7	4.0'	6/21/2018	11.6	u	9.7	330		u	u	u	u
S-8	2.0'	6/21/2018	5.55	u	u	220		u	u	u	u
S-8	3.0'	6/21/2018	7.37	u	0.79	6		u	u	u	u
S-8	4.0'	6/21/2018	22.8	0.032	11	150		u	u	u	u
S-9	2.0'	6/21/2018	32	u	15	16		u	u	u	u
S-9	3.0'	6/21/2018	64.7	u	8.8	7.9		u	u	u	u
S-9	4.0'	6/21/2018	13.5	u	5	6.4		u	u	u	u
S-10	2.0'	6/21/2018	3.78	u	u	4.7		u	u	u	u
S-10	3.0'	6/21/2018	3.89	u	0.74	5.2		u	u	u	u
S-10	4.0'	6/21/2018	3.61	0.031	u	4.2		u	u	u	u
Post Remediation Re Sample											
S-2	4.0'	7/9/2018	171								
S-2	5.0'	7/9/2018	179								

U - Not Detected - less than Standard Detection Limit

"Action Level" represents the NMOCD Action Levels.

Bold numbers exhibit concentrations above the Action Levels.

All results reported in mg/Kg



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December 19, 2017

Matthew Boyle
Leggette, Brashears & Graham, Inc.
15305 N. Dallas Parkway
Suite 300
Addison, TX 75001

Work Order: **HS17120582**

Laboratory Results for: **Foster TB**

Dear Matthew,

ALS Environmental received 10 sample(s) on Dec 09, 2017 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumokey.Lawal
Bernadette A. Fini
Project Manager

Client: Leggette, Brashears & Graham, Inc.
Project: Foster TB
Work Order: HS17120582

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS17120582-01	SS-1 0.5'	Soil		06-Dec-2017 16:10	09-Dec-2017 09:50	☐
HS17120582-02	SS-1 1'	Soil		06-Dec-2017 16:15	09-Dec-2017 09:50	☐
HS17120582-03	SS-2 0.5'	Soil		06-Dec-2017 16:20	09-Dec-2017 09:50	☐
HS17120582-04	SS-2 1'	Soil		06-Dec-2017 16:25	09-Dec-2017 09:50	☐
HS17120582-05	SS-3 0.5'	Soil		06-Dec-2017 16:30	09-Dec-2017 09:50	☐
HS17120582-06	SS-3 1'	Soil		06-Dec-2017 16:35	09-Dec-2017 09:50	☐
HS17120582-07	SS-4 0.5'	Soil		06-Dec-2017 16:40	09-Dec-2017 09:50	☐
HS17120582-08	SS-4 1'	Soil		06-Dec-2017 16:45	09-Dec-2017 09:50	☐
HS17120582-09	SS-5 0.5'	Soil		06-Dec-2017 16:50	09-Dec-2017 09:50	☐
HS17120582-10	SS-5 1'	Soil		06-Dec-2017 16:55	09-Dec-2017 09:50	☐

Client: Leggette, Brashears & Graham, Inc.
Project: Foster TB
Work Order: HS17120582

CASE NARRATIVE

GC Semivolatiles by Method TX1005**Batch ID: 123291****Sample ID: SS-2 0.5' (HS17120582-03)**

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SS-3 0.5' (HS17120582-05)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Batch ID: 123286**Sample ID: SS-1 0.5' (HS17120582-01MS)**

- Surrogate recoveries were outside of the control limits due to matrix interference.
- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount.

Sample ID: SS-1 0.5' (HS17120582-01MSD)

- Surrogate recoveries were outside of the control limits due to matrix interference.

GCMS Volatiles by Method SW8260**Batch ID: R307190,R307409**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R307294**Sample ID: HS17120757-03MS**

- MS and MSD are for an unrelated sample

WetChemistry by Method E300**Batch ID: 123505**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: Leggette, Brashears & Graham, Inc.
 Project: Foster TB
 Sample ID: SS-1 0.5'
 Collection Date: 06-Dec-2017 16:10

ANALYTICAL REPORT

WorkOrder:HS17120582
 Lab ID:HS17120582-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
Benzene	ND		2.5	mg/Kg	500	18-Dec-2017 12:06
Ethylbenzene	5.7		2.5	mg/Kg	500	18-Dec-2017 12:06
m,p-Xylene	10		5.0	mg/Kg	500	18-Dec-2017 12:06
o-Xylene	4.7		2.5	mg/Kg	500	18-Dec-2017 12:06
Toluene	3.5		2.5	mg/Kg	500	18-Dec-2017 12:06
Xylenes, Total	15		2.5	mg/Kg	500	18-Dec-2017 12:06
Surr: 1,2-Dichloroethane-d4	85.1		70-126	%REC	500	18-Dec-2017 12:06
Surr: 4-Bromofluorobenzene	96.9		73-120	%REC	500	18-Dec-2017 12:06
Surr: Dibromofluoromethane	94.5		70-130	%REC	500	18-Dec-2017 12:06
Surr: Toluene-d8	94.5		82-121	%REC	500	18-Dec-2017 12:06
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 13-Dec-2017 Analyst: JLJ		
nC6 to nC12	350		240	mg/Kg	5	15-Dec-2017 21:35
>nC12 to nC28	1,200		240	mg/Kg	5	15-Dec-2017 21:35
>nC28 to nC35	ND		240	mg/Kg	5	15-Dec-2017 21:35
Total Petroleum Hydrocarbon	1,550		240	mg/Kg	5	15-Dec-2017 21:35
Surr: 2-Fluorobiphenyl	107		70-130	%REC	5	15-Dec-2017 21:35
Surr: Trifluoromethyl benzene	84.6		70-130	%REC	5	15-Dec-2017 21:35
ANIONS BY E300.0		Method:E300		Prep:E300 / 18-Dec-2017 Analyst: JBA		
Chloride	10,400		199	mg/Kg	40	18-Dec-2017 17:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
 Project: Foster TB
 Sample ID: SS-1 1'
 Collection Date: 06-Dec-2017 16:15

ANALYTICAL REPORT

WorkOrder:HS17120582
 Lab ID:HS17120582-02
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
Benzene	ND		0.0050	mg/Kg	1	14-Dec-2017 11:24
Ethylbenzene	0.012		0.0050	mg/Kg	1	14-Dec-2017 11:24
m,p-Xylene	ND		0.0099	mg/Kg	1	14-Dec-2017 11:24
o-Xylene	0.011		0.0050	mg/Kg	1	14-Dec-2017 11:24
Toluene	0.014		0.0050	mg/Kg	1	14-Dec-2017 11:24
Xylenes, Total	0.016		0.0050	mg/Kg	1	14-Dec-2017 11:24
Surr: 1,2-Dichloroethane-d4	104		70-126	%REC	1	14-Dec-2017 11:24
Surr: 4-Bromofluorobenzene	104		73-120	%REC	1	14-Dec-2017 11:24
Surr: Dibromofluoromethane	104		70-130	%REC	1	14-Dec-2017 11:24
Surr: Toluene-d8	101		82-121	%REC	1	14-Dec-2017 11:24
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 13-Dec-2017 Analyst: JLJ		
nC6 to nC12	ND		49	mg/Kg	1	14-Dec-2017 15:45
>nC12 to nC28	ND		49	mg/Kg	1	14-Dec-2017 15:45
>nC28 to nC35	ND		49	mg/Kg	1	14-Dec-2017 15:45
Total Petroleum Hydrocarbon	ND		49	mg/Kg	1	14-Dec-2017 15:45
Surr: 2-Fluorobiphenyl	110		70-130	%REC	1	14-Dec-2017 15:45
Surr: Trifluoromethyl benzene	128		70-130	%REC	1	14-Dec-2017 15:45
ANIONS BY E300.0		Method:E300		Prep:E300 / 18-Dec-2017 Analyst: JBA		
Chloride	46.0		4.93	mg/Kg	1	18-Dec-2017 17:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
 Project: Foster TB
 Sample ID: SS-2 0.5'
 Collection Date: 06-Dec-2017 16:20

ANALYTICAL REPORT

WorkOrder:HS17120582
 Lab ID:HS17120582-03
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
Benzene	49		2.5	mg/Kg	500	18-Dec-2017 12:30
Ethylbenzene	380		25	mg/Kg	5000	18-Dec-2017 14:04
m,p-Xylene	140		5.0	mg/Kg	500	18-Dec-2017 12:30
o-Xylene	55		2.5	mg/Kg	500	18-Dec-2017 12:30
Toluene	690		25	mg/Kg	5000	18-Dec-2017 14:04
Xylenes, Total	190		2.5	mg/Kg	500	18-Dec-2017 12:30
Surr: 1,2-Dichloroethane-d4	88.1		70-126	%REC	5000	18-Dec-2017 14:04
Surr: 1,2-Dichloroethane-d4	84.9		70-126	%REC	500	18-Dec-2017 12:30
Surr: 4-Bromofluorobenzene	94.5		73-120	%REC	500	18-Dec-2017 12:30
Surr: 4-Bromofluorobenzene	96.9		73-120	%REC	5000	18-Dec-2017 14:04
Surr: Dibromofluoromethane	94.4		70-130	%REC	500	18-Dec-2017 12:30
Surr: Dibromofluoromethane	94.9		70-130	%REC	5000	18-Dec-2017 14:04
Surr: Toluene-d8	95.8		82-121	%REC	500	18-Dec-2017 12:30
Surr: Toluene-d8	95.3		82-121	%REC	5000	18-Dec-2017 14:04
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 13-Dec-2017 Analyst: JLJ		
nC6 to nC12	8,900		2400	mg/Kg	50	15-Dec-2017 23:10
>nC12 to nC28	16,000		2400	mg/Kg	50	15-Dec-2017 23:10
>nC28 to nC35	ND		2400	mg/Kg	50	15-Dec-2017 23:10
Total Petroleum Hydrocarbon	24,900		2400	mg/Kg	50	15-Dec-2017 23:10
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	50	15-Dec-2017 23:10
Surr: Trifluoromethyl benzene	0	S	70-130	%REC	50	15-Dec-2017 23:10
ANIONS BY E300.0		Method:E300		Prep:E300 / 18-Dec-2017 Analyst: JBA		
Chloride	6,200		200	mg/Kg	40	18-Dec-2017 18:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
 Project: Foster TB
 Sample ID: SS-2 1'
 Collection Date: 06-Dec-2017 16:25

ANALYTICAL REPORT

WorkOrder:HS17120582
 Lab ID:HS17120582-04
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
Benzene	0.023		0.0048	mg/Kg	1	14-Dec-2017 11:52
Ethylbenzene	0.068		0.0048	mg/Kg	1	14-Dec-2017 11:52
m,p-Xylene	0.11		0.0095	mg/Kg	1	14-Dec-2017 11:52
o-Xylene	0.067		0.0048	mg/Kg	1	14-Dec-2017 11:52
Toluene	0.066		0.0048	mg/Kg	1	14-Dec-2017 11:52
Xylenes, Total	0.18		0.0048	mg/Kg	1	14-Dec-2017 11:52
Surr: 1,2-Dichloroethane-d4	115		70-126	%REC	1	14-Dec-2017 11:52
Surr: 4-Bromofluorobenzene	104		73-120	%REC	1	14-Dec-2017 11:52
Surr: Dibromofluoromethane	109		70-130	%REC	1	14-Dec-2017 11:52
Surr: Toluene-d8	98.1		82-121	%REC	1	14-Dec-2017 11:52
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 13-Dec-2017 Analyst: JLJ		
nC6 to nC12	ND		49	mg/Kg	1	14-Dec-2017 16:17
>nC12 to nC28	ND		49	mg/Kg	1	14-Dec-2017 16:17
>nC28 to nC35	ND		49	mg/Kg	1	14-Dec-2017 16:17
Total Petroleum Hydrocarbon	ND		49	mg/Kg	1	14-Dec-2017 16:17
Surr: 2-Fluorobiphenyl	73.0		70-130	%REC	1	14-Dec-2017 16:17
Surr: Trifluoromethyl benzene	87.4		70-130	%REC	1	14-Dec-2017 16:17
ANIONS BY E300.0		Method:E300		Prep:E300 / 18-Dec-2017 Analyst: JBA		
Chloride	2,900		100	mg/Kg	20	18-Dec-2017 18:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
 Project: Foster TB
 Sample ID: SS-3 0.5'
 Collection Date: 06-Dec-2017 16:30

ANALYTICAL REPORT

WorkOrder:HS17120582
 Lab ID:HS17120582-05
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
Benzene	25		2.4	mg/Kg	500	18-Dec-2017 12:53
Ethylbenzene	71		2.4	mg/Kg	500	18-Dec-2017 12:53
m,p-Xylene	97		4.9	mg/Kg	500	18-Dec-2017 12:53
o-Xylene	38		2.4	mg/Kg	500	18-Dec-2017 12:53
Toluene	210		24	mg/Kg	5000	18-Dec-2017 14:27
Xylenes, Total	130		2.4	mg/Kg	500	18-Dec-2017 12:53
Surr: 1,2-Dichloroethane-d4	85.2		70-126	%REC	500	18-Dec-2017 12:53
Surr: 1,2-Dichloroethane-d4	83.4		70-126	%REC	5000	18-Dec-2017 14:27
Surr: 4-Bromofluorobenzene	95.1		73-120	%REC	5000	18-Dec-2017 14:27
Surr: 4-Bromofluorobenzene	94.5		73-120	%REC	500	18-Dec-2017 12:53
Surr: Dibromofluoromethane	94.1		70-130	%REC	500	18-Dec-2017 12:53
Surr: Dibromofluoromethane	94.5		70-130	%REC	5000	18-Dec-2017 14:27
Surr: Toluene-d8	95.3		82-121	%REC	5000	18-Dec-2017 14:27
Surr: Toluene-d8	95.5		82-121	%REC	500	18-Dec-2017 12:53
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 13-Dec-2017 Analyst: JLJ		
nC6 to nC12	5,400		940	mg/Kg	20	15-Dec-2017 23:42
>nC12 to nC28	16,000		940	mg/Kg	20	15-Dec-2017 23:42
>nC28 to nC35	1,500		940	mg/Kg	20	15-Dec-2017 23:42
Total Petroleum Hydrocarbon	22,900		940	mg/Kg	20	15-Dec-2017 23:42
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	20	15-Dec-2017 23:42
Surr: Trifluoromethyl benzene	0	S	70-130	%REC	20	15-Dec-2017 23:42
ANIONS BY E300.0		Method:E300		Prep:E300 / 18-Dec-2017 Analyst: JBA		
Chloride	9,660		198	mg/Kg	40	18-Dec-2017 19:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
 Project: Foster TB
 Sample ID: SS-3 1'
 Collection Date: 06-Dec-2017 16:35

ANALYTICAL REPORT

WorkOrder:HS17120582
 Lab ID:HS17120582-06
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
Benzene	0.015		0.0050	mg/Kg	1	14-Dec-2017 12:19
Ethylbenzene	0.018		0.0050	mg/Kg	1	14-Dec-2017 12:19
m,p-Xylene	0.016		0.010	mg/Kg	1	14-Dec-2017 12:19
o-Xylene	0.019		0.0050	mg/Kg	1	14-Dec-2017 12:19
Toluene	0.027		0.0050	mg/Kg	1	14-Dec-2017 12:19
Xylenes, Total	0.035		0.0050	mg/Kg	1	14-Dec-2017 12:19
Surr: 1,2-Dichloroethane-d4	102		70-126	%REC	1	14-Dec-2017 12:19
Surr: 4-Bromofluorobenzene	100		73-120	%REC	1	14-Dec-2017 12:19
Surr: Dibromofluoromethane	103		70-130	%REC	1	14-Dec-2017 12:19
Surr: Toluene-d8	100		82-121	%REC	1	14-Dec-2017 12:19
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 13-Dec-2017 Analyst: JLJ		
nC6 to nC12	ND		49	mg/Kg	1	14-Dec-2017 16:49
>nC12 to nC28	ND		49	mg/Kg	1	14-Dec-2017 16:49
>nC28 to nC35	ND		49	mg/Kg	1	14-Dec-2017 16:49
Total Petroleum Hydrocarbon	ND		49	mg/Kg	1	14-Dec-2017 16:49
Surr: 2-Fluorobiphenyl	83.2		70-130	%REC	1	14-Dec-2017 16:49
Surr: Trifluoromethyl benzene	95.7		70-130	%REC	1	14-Dec-2017 16:49
ANIONS BY E300.0		Method:E300		Prep:E300 / 18-Dec-2017 Analyst: JBA		
Chloride	22.8		4.87	mg/Kg	1	18-Dec-2017 19:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
 Project: Foster TB
 Sample ID: SS-4 0.5'
 Collection Date: 06-Dec-2017 16:40

ANALYTICAL REPORT

WorkOrder:HS17120582
 Lab ID:HS17120582-07
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
Benzene	0.040		0.0049	mg/Kg	1	14-Dec-2017 12:46
Ethylbenzene	5.6		0.24	mg/Kg	50	18-Dec-2017 13:17
m,p-Xylene	9.4		0.49	mg/Kg	50	18-Dec-2017 13:17
o-Xylene	4.3		0.24	mg/Kg	50	18-Dec-2017 13:17
Toluene	1.5		0.24	mg/Kg	50	18-Dec-2017 13:17
Xylenes, Total	14		0.24	mg/Kg	50	18-Dec-2017 13:17
Surr: 1,2-Dichloroethane-d4	99.0		70-126	%REC	1	14-Dec-2017 12:46
Surr: 1,2-Dichloroethane-d4	89.9		70-126	%REC	50	18-Dec-2017 13:17
Surr: 4-Bromofluorobenzene	118		73-120	%REC	1	14-Dec-2017 12:46
Surr: 4-Bromofluorobenzene	101		73-120	%REC	50	18-Dec-2017 13:17
Surr: Dibromofluoromethane	104		70-130	%REC	1	14-Dec-2017 12:46
Surr: Dibromofluoromethane	95.0		70-130	%REC	50	18-Dec-2017 13:17
Surr: Toluene-d8	104		82-121	%REC	1	14-Dec-2017 12:46
Surr: Toluene-d8	92.7		82-121	%REC	50	18-Dec-2017 13:17
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 13-Dec-2017 Analyst: JLJ		
nC6 to nC12	68		48	mg/Kg	1	14-Dec-2017 17:21
>nC12 to nC28	270		48	mg/Kg	1	14-Dec-2017 17:21
>nC28 to nC35	ND		48	mg/Kg	1	14-Dec-2017 17:21
Total Petroleum Hydrocarbon	338		48	mg/Kg	1	14-Dec-2017 17:21
Surr: 2-Fluorobiphenyl	84.8		70-130	%REC	1	14-Dec-2017 17:21
Surr: Trifluoromethyl benzene	87.7		70-130	%REC	1	14-Dec-2017 17:21
ANIONS BY E300.0		Method:E300		Prep:E300 / 18-Dec-2017 Analyst: JBA		
Chloride	3,900		98.4	mg/Kg	20	18-Dec-2017 19:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
 Project: Foster TB
 Sample ID: SS-4 1'
 Collection Date: 06-Dec-2017 16:45

ANALYTICAL REPORT

WorkOrder:HS17120582
 Lab ID:HS17120582-08
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
Benzene	ND		0.0049	mg/Kg	1	14-Dec-2017 19:10
Ethylbenzene	ND		0.0049	mg/Kg	1	14-Dec-2017 19:10
m,p-Xylene	ND		0.0098	mg/Kg	1	14-Dec-2017 19:10
o-Xylene	ND		0.0049	mg/Kg	1	14-Dec-2017 19:10
Toluene	0.0051		0.0049	mg/Kg	1	14-Dec-2017 19:10
Xylenes, Total	ND		0.0049	mg/Kg	1	14-Dec-2017 19:10
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>103</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>14-Dec-2017 19:10</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>97.1</i>		<i>73-120</i>	<i>%REC</i>	<i>1</i>	<i>14-Dec-2017 19:10</i>
<i>Surr: Dibromofluoromethane</i>	<i>104</i>		<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>14-Dec-2017 19:10</i>
<i>Surr: Toluene-d8</i>	<i>101</i>		<i>82-121</i>	<i>%REC</i>	<i>1</i>	<i>14-Dec-2017 19:10</i>
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 13-Dec-2017 Analyst: JLJ		
nC6 to nC12	ND		49	mg/Kg	1	14-Dec-2017 17:53
>nC12 to nC28	ND		49	mg/Kg	1	14-Dec-2017 17:53
>nC28 to nC35	ND		49	mg/Kg	1	14-Dec-2017 17:53
Total Petroleum Hydrocarbon	ND		49	mg/Kg	1	14-Dec-2017 17:53
<i>Surr: 2-Fluorobiphenyl</i>	<i>72.4</i>		<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>14-Dec-2017 17:53</i>
<i>Surr: Trifluoromethyl benzene</i>	<i>84.7</i>		<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>14-Dec-2017 17:53</i>
ANIONS BY E300.0		Method:E300		Prep:E300 / 18-Dec-2017 Analyst: JBA		
Chloride	7.80		4.92	mg/Kg	1	18-Dec-2017 20:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
 Project: Foster TB
 Sample ID: SS-5 0.5'
 Collection Date: 06-Dec-2017 16:50

ANALYTICAL REPORT

WorkOrder:HS17120582
 Lab ID:HS17120582-09
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
Benzene	ND		0.0048	mg/Kg	1	14-Dec-2017 13:40
Ethylbenzene	0.014		0.0048	mg/Kg	1	14-Dec-2017 13:40
m,p-Xylene	ND		0.0097	mg/Kg	1	14-Dec-2017 13:40
o-Xylene	0.014		0.0048	mg/Kg	1	14-Dec-2017 13:40
Toluene	0.014		0.0048	mg/Kg	1	14-Dec-2017 13:40
Xylenes, Total	0.022		0.0048	mg/Kg	1	14-Dec-2017 13:40
Surr: 1,2-Dichloroethane-d4	105		70-126	%REC	1	14-Dec-2017 13:40
Surr: 4-Bromofluorobenzene	99.3		73-120	%REC	1	14-Dec-2017 13:40
Surr: Dibromofluoromethane	108		70-130	%REC	1	14-Dec-2017 13:40
Surr: Toluene-d8	101		82-121	%REC	1	14-Dec-2017 13:40
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 13-Dec-2017 Analyst: JLJ		
nC6 to nC12	ND		46	mg/Kg	1	14-Dec-2017 18:25
>nC12 to nC28	ND		46	mg/Kg	1	14-Dec-2017 18:25
>nC28 to nC35	ND		46	mg/Kg	1	14-Dec-2017 18:25
Total Petroleum Hydrocarbon	ND		46	mg/Kg	1	14-Dec-2017 18:25
Surr: 2-Fluorobiphenyl	71.3		70-130	%REC	1	14-Dec-2017 18:25
Surr: Trifluoromethyl benzene	83.8		70-130	%REC	1	14-Dec-2017 18:25
ANIONS BY E300.0		Method:E300		Prep:E300 / 18-Dec-2017 Analyst: JBA		
Chloride	6.09		4.91	mg/Kg	1	18-Dec-2017 20:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
 Project: Foster TB
 Sample ID: SS-5 1'
 Collection Date: 06-Dec-2017 16:55

ANALYTICAL REPORT

WorkOrder:HS17120582
 Lab ID:HS17120582-10
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
Benzene	ND		0.0047	mg/Kg	1	14-Dec-2017 19:37
Ethylbenzene	0.0063		0.0047	mg/Kg	1	14-Dec-2017 19:37
m,p-Xylene	ND		0.0094	mg/Kg	1	14-Dec-2017 19:37
o-Xylene	0.0083		0.0047	mg/Kg	1	14-Dec-2017 19:37
Toluene	0.0067		0.0047	mg/Kg	1	14-Dec-2017 19:37
Xylenes, Total	0.0083		0.0047	mg/Kg	1	14-Dec-2017 19:37
Surr: 1,2-Dichloroethane-d4	109		70-126	%REC	1	14-Dec-2017 19:37
Surr: 4-Bromofluorobenzene	97.7		73-120	%REC	1	14-Dec-2017 19:37
Surr: Dibromofluoromethane	102		70-130	%REC	1	14-Dec-2017 19:37
Surr: Toluene-d8	99.9		82-121	%REC	1	14-Dec-2017 19:37
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 13-Dec-2017 Analyst: JLJ		
nC6 to nC12	ND		48	mg/Kg	1	14-Dec-2017 18:57
>nC12 to nC28	ND		48	mg/Kg	1	14-Dec-2017 18:57
>nC28 to nC35	ND		48	mg/Kg	1	14-Dec-2017 18:57
Total Petroleum Hydrocarbon	ND		48	mg/Kg	1	14-Dec-2017 18:57
Surr: 2-Fluorobiphenyl	74.6		70-130	%REC	1	14-Dec-2017 18:57
Surr: Trifluoromethyl benzene	87.6		70-130	%REC	1	14-Dec-2017 18:57
ANIONS BY E300.0		Method:E300		Prep:E300 / 18-Dec-2017 Analyst: JBA		
Chloride	6.65		4.93	mg/Kg	1	18-Dec-2017 21:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

WEIGHT LOG

Client: Leggette, Brashears & Graham, Inc.

Project: Foster TB

WorkOrder: HS17120582

Batch ID: 2157 Method: VOLATILES BY SW8260C

SampleID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS17120582-01	1	5.059 (g)	5 (mL)	0.99	Bulk (5030B)
HS17120582-02	1	5.061 (g)	5 (mL)	0.99	Bulk (5030B)
HS17120582-03	1	4.938 (g)	5 (mL)	1.01	Bulk (5030B)
HS17120582-04	1	5.24 (g)	5 (mL)	0.95	Bulk (5030B)
HS17120582-05	1	5.09 (g)	5 (mL)	0.98	Bulk (5030B)
HS17120582-06	1	4.956 (g)	5 (mL)	1.01	Bulk (5030B)
HS17120582-07	1	5.103 (g)	5 (mL)	0.98	Bulk (5030B)
HS17120582-08	1	5.119 (g)	5 (mL)	0.98	Bulk (5030B)
HS17120582-09	1	5.15 (g)	5 (mL)	0.97	Bulk (5030B)

Batch ID: 123286 Method: TEXAS TPH BY TX1005 Prep: TX 1005_S PR

SampleID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS17120582-01	1	10.26	10 (mL)	0.9747

Batch ID: 123291 Method: TEXAS TPH BY TX1005 Prep: TX 1005_S PR

SampleID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS17120582-02	1	10.15	10 (mL)	0.9852
HS17120582-03	1	10.25	10 (mL)	0.9756
HS17120582-04	1	10.17	10 (mL)	0.9833
HS17120582-05	1	10.65	10 (mL)	0.939
HS17120582-06	1	10.22	10 (mL)	0.9785
HS17120582-07	1	10.5	10 (mL)	0.9524
HS17120582-08	1	10.26	10 (mL)	0.9747
HS17120582-09	1	10.93	10 (mL)	0.9149
HS17120582-10	1	10.37	10 (mL)	0.9643

Batch ID: 123505 Method: ANIONS BY E300.0 Prep: 300_S_PR

SampleID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS17120582-01	1	5.0325	50 (mL)	9.935
HS17120582-02	1	5.0751	50 (mL)	9.852
HS17120582-03	1	5.0021	50 (mL)	9.996
HS17120582-04	1	5.0018	50 (mL)	9.996
HS17120582-05	1	5.0432	50 (mL)	9.914
HS17120582-06	1	5.1317	50 (mL)	9.743
HS17120582-07	1	5.0791	50 (mL)	9.844
HS17120582-08	1	5.0821	50 (mL)	9.838
HS17120582-09	1	5.0911	50 (mL)	9.821
HS17120582-10	1	5.0701	50 (mL)	9.862

Client: Leggette, Brashears & Graham, Inc.
Project: Foster TB
WorkOrder: HS17120582

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 123286 Test Name : TEXAS TPH BY TX1005 Matrix: Soil						
HS17120582-01	SS-1 0.5'	06 Dec 2017 16:10		13 Dec 2017 15:41	15 Dec 2017 21:35	5
Batch ID 123291 Test Name : TEXAS TPH BY TX1005 Matrix: Soil						
HS17120582-02	SS-1 1'	06 Dec 2017 16:15		13 Dec 2017 16:55	14 Dec 2017 15:45	1
HS17120582-03	SS-2 0.5'	06 Dec 2017 16:20		13 Dec 2017 16:55	15 Dec 2017 23:10	50
HS17120582-04	SS-2 1'	06 Dec 2017 16:25		13 Dec 2017 16:55	14 Dec 2017 16:17	1
HS17120582-05	SS-3 0.5'	06 Dec 2017 16:30		13 Dec 2017 16:55	15 Dec 2017 23:42	20
HS17120582-06	SS-3 1'	06 Dec 2017 16:35		13 Dec 2017 16:55	14 Dec 2017 16:49	1
HS17120582-07	SS-4 0.5'	06 Dec 2017 16:40		13 Dec 2017 16:55	14 Dec 2017 17:21	1
HS17120582-08	SS-4 1'	06 Dec 2017 16:45		13 Dec 2017 16:55	14 Dec 2017 17:53	1
HS17120582-09	SS-5 0.5'	06 Dec 2017 16:50		13 Dec 2017 16:55	14 Dec 2017 18:25	1
HS17120582-10	SS-5 1'	06 Dec 2017 16:55		13 Dec 2017 16:55	14 Dec 2017 18:57	1
Batch ID 123505 Test Name : ANIONS BY E300.0 Matrix: Soil						
HS17120582-01	SS-1 0.5'	06 Dec 2017 16:10		18 Dec 2017 08:00	18 Dec 2017 17:33	40
HS17120582-02	SS-1 1'	06 Dec 2017 16:15		18 Dec 2017 08:00	18 Dec 2017 17:55	1
HS17120582-03	SS-2 0.5'	06 Dec 2017 16:20		18 Dec 2017 08:00	18 Dec 2017 18:17	40
HS17120582-04	SS-2 1'	06 Dec 2017 16:25		18 Dec 2017 08:00	18 Dec 2017 18:38	20
HS17120582-05	SS-3 0.5'	06 Dec 2017 16:30		18 Dec 2017 08:00	18 Dec 2017 19:00	40
HS17120582-06	SS-3 1'	06 Dec 2017 16:35		18 Dec 2017 08:00	18 Dec 2017 19:22	1
HS17120582-07	SS-4 0.5'	06 Dec 2017 16:40		18 Dec 2017 08:00	18 Dec 2017 19:43	20
HS17120582-08	SS-4 1'	06 Dec 2017 16:45		18 Dec 2017 08:00	18 Dec 2017 20:05	1
HS17120582-09	SS-5 0.5'	06 Dec 2017 16:50		18 Dec 2017 08:00	18 Dec 2017 20:27	1
HS17120582-10	SS-5 1'	06 Dec 2017 16:55		18 Dec 2017 08:00	18 Dec 2017 21:54	1
Batch ID R307190 Test Name : VOLATILES BY SW8260C Matrix: Soil						
HS17120582-02	SS-1 1'	06 Dec 2017 16:15			14 Dec 2017 11:24	1
HS17120582-04	SS-2 1'	06 Dec 2017 16:25			14 Dec 2017 11:52	1
HS17120582-06	SS-3 1'	06 Dec 2017 16:35			14 Dec 2017 12:19	1
HS17120582-07	SS-4 0.5'	06 Dec 2017 16:40			14 Dec 2017 12:46	1
HS17120582-09	SS-5 0.5'	06 Dec 2017 16:50			14 Dec 2017 13:40	1
Batch ID R307294 Test Name : VOLATILES BY SW8260C Matrix: Soil						
HS17120582-08	SS-4 1'	06 Dec 2017 16:45			14 Dec 2017 19:10	1
HS17120582-10	SS-5 1'	06 Dec 2017 16:55			14 Dec 2017 19:37	1
Batch ID R307409 Test Name : VOLATILES BY SW8260C Matrix: Soil						
HS17120582-01	SS-1 0.5'	06 Dec 2017 16:10			18 Dec 2017 12:06	500
HS17120582-03	SS-2 0.5'	06 Dec 2017 16:20			18 Dec 2017 14:04	5000
HS17120582-03	SS-2 0.5'	06 Dec 2017 16:20			18 Dec 2017 12:30	500
HS17120582-05	SS-3 0.5'	06 Dec 2017 16:30			18 Dec 2017 14:27	5000
HS17120582-05	SS-3 0.5'	06 Dec 2017 16:30			18 Dec 2017 12:53	500
HS17120582-07	SS-4 0.5'	06 Dec 2017 16:40			18 Dec 2017 13:17	50

Client: Leggette, Brashears & Graham, Inc.

Project: Foster TB

WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: 123286		Instrument: FID-12		Method: TX1005					
MBLK	Sample ID: MBLK-123286	Units: mg/Kg		Analysis Date: 14-Dec-2017 08:53					
Client ID:	Run ID: FID-12_307446	SeqNo: 4356580		PrepDate: 13-Dec-2017		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
nC6 to nC12	ND	50							
>nC12 to nC28	ND	50							
>nC28 to nC35	ND	50							
Total Petroleum Hydrocarbon	ND	50							
Surr: 2-Fluorobiphenyl	31.94	0	25	0	128	70 - 130			
Surr: Trifluoromethyl benzene	29.04	0	25	0	116	70 - 130			
LCS	Sample ID: LCS-123286	Units: mg/Kg		Analysis Date: 14-Dec-2017 09:24					
Client ID:	Run ID: FID-12_307446	SeqNo: 4356581		PrepDate: 13-Dec-2017		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
nC6 to nC12	213.6	50	250	0	85.4	75 - 125			
>nC12 to nC28	301.5	50	250	0	121	75 - 125			
Surr: 2-Fluorobiphenyl	28.04	0	25	0	112	70 - 130			
Surr: Trifluoromethyl benzene	26.09	0	25	0	104	70 - 130			
LCSD	Sample ID: LCSD-123286	Units: mg/Kg		Analysis Date: 14-Dec-2017 09:56					
Client ID:	Run ID: FID-12_307446	SeqNo: 4356582		PrepDate: 13-Dec-2017		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
nC6 to nC12	204.1	50	250	0	81.6	75 - 125	213.6	4.57	20
>nC12 to nC28	285.7	50	250	0	114	75 - 125	301.5	5.37	20
Surr: 2-Fluorobiphenyl	25.79	0	25	0	103	70 - 130	28.04	8.37	20
Surr: Trifluoromethyl benzene	24.5	0	25	0	98.0	70 - 130	26.09	6.3	20
MS	Sample ID: HS17120582-01MS	Units: mg/Kg		Analysis Date: 14-Dec-2017 10:59					
Client ID: SS-1 0.5'	Run ID: FID-12_307446	SeqNo: 4356584		PrepDate: 13-Dec-2017		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
nC6 to nC12	600.6	47	233.4	312.6	123	75 - 125			
>nC12 to nC28	2679	47	233.4	1427	537	75 - 125			SEO
Surr: 2-Fluorobiphenyl	35.18	0	23.34	0	151	70 - 130			S
Surr: Trifluoromethyl benzene	20.02	0	23.34	0	85.7	70 - 130			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
Project: Foster TB
WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: 123286		Instrument: FID-12		Method: TX1005						
MSD		Sample ID: HS17120582-01MSD		Units: mg/Kg		Analysis Date: 14-Dec-2017 11:31				
Client ID: SS-1 0.5'		Run ID: FID-12_307446		SeqNo: 4356585		PrepDate: 13-Dec-2017		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	619	49	246.3	312.6	124	75 - 125	600.6	3.01	20	
>nC12 to nC28	2288	49	246.3	1427	350	75 - 125	2679	15.7	20	SEO
Surr: 2-Fluorobiphenyl	35.02	0	24.63	0	142	70 - 130	35.18	0.451	20	S
Surr: Trifluoromethyl benzene	22.93	0	24.63	0	93.1	70 - 130	20.02	13.6	20	

The following samples were analyzed in this batch: HS17120582-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
Project: Foster TB
WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: 123291		Instrument: FID-13		Method: TX1005					
MBLK	Sample ID: MBLK-123291	Units: mg/Kg		Analysis Date: 14-Dec-2017 08:53					
Client ID:	Run ID: FID-13_307436	SeqNo: 4356357		PrepDate: 13-Dec-2017		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
nC6 to nC12	ND	50							
>nC12 to nC28	ND	50							
>nC28 to nC35	ND	50							
Total Petroleum Hydrocarbon	ND	50							
Surr: 2-Fluorobiphenyl	23.82	0	25	0	95.3	70 - 130			
Surr: Trifluoromethyl benzene	24.83	0	25	0	99.3	70 - 130			

LCS	Sample ID: LCS-123291	Units: mg/Kg		Analysis Date: 14-Dec-2017 09:24					
Client ID:	Run ID: FID-13_307436	SeqNo: 4356358		PrepDate: 13-Dec-2017		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
nC6 to nC12	233.2	50	250	0	93.3	75 - 125			
>nC12 to nC28	226.9	50	250	0	90.8	75 - 125			
Surr: 2-Fluorobiphenyl	22.84	0	25	0	91.4	70 - 130			
Surr: Trifluoromethyl benzene	25.63	0	25	0	103	70 - 130			

LCSD	Sample ID: LCSD-123291	Units: mg/Kg		Analysis Date: 14-Dec-2017 09:56					
Client ID:	Run ID: FID-13_307436	SeqNo: 4356359		PrepDate: 13-Dec-2017		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
nC6 to nC12	219.7	50	250	0	87.9	75 - 125	233.2	5.97	20
>nC12 to nC28	224.8	50	250	0	89.9	75 - 125	226.9	0.926	20
Surr: 2-Fluorobiphenyl	22.47	0	25	0	89.9	70 - 130	22.84	1.64	20
Surr: Trifluoromethyl benzene	25.2	0	25	0	101	70 - 130	25.63	1.68	20

MS	Sample ID: HS17120580-07MS	Units: mg/Kg		Analysis Date: 14-Dec-2017 10:59					
Client ID:	Run ID: FID-13_307436	SeqNo: 4356361		PrepDate: 13-Dec-2017		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
nC6 to nC12	183.1	39	194.9	0	94.0	75 - 125			
>nC12 to nC28	185.6	39	194.9	0	95.3	75 - 125			
Surr: 2-Fluorobiphenyl	15.61	0	19.49	0	80.1	70 - 130			
Surr: Trifluoromethyl benzene	17.77	0	19.49	0	91.2	70 - 130			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.

Project: Foster TB

WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: 123291		Instrument: FID-13		Method: TX1005						
MSD	Sample ID: HS17120580-07MSD	Units: mg/Kg			Analysis Date: 14-Dec-2017 11:31					
Client ID:	Run ID: FID-13_307436	SeqNo: 4356362		PrepDate: 13-Dec-2017		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	183.9	41	204.9	0	89.7	75 - 125	183.1	0.406	20	
>nC12 to nC28	184	41	204.9	0	89.8	75 - 125	185.6	0.863	20	
Surr: 2-Fluorobiphenyl	16.14	0	20.49	0	78.8	70 - 130	15.61	3.35	20	
Surr: Trifluoromethyl benzene	18.33	0	20.49	0	89.5	70 - 130	17.77	3.15	20	
The following samples were analyzed in this batch:		HS17120582-02		HS17120582-03		HS17120582-04		HS17120582-05		
		HS17120582-06		HS17120582-07		HS17120582-08		HS17120582-09		
		HS17120582-10								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.

Project: Foster TB

WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: R307190		Instrument: VOA8		Method: SW8260					
MBLK	Sample ID: VBLKS1-121417	Units: ug/Kg		Analysis Date: 14-Dec-2017 05:53					
Client ID:	Run ID: VOA8_307190	SeqNo: 4350536		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	ND	5.0							
Ethylbenzene	ND	5.0							
m,p-Xylene	ND	10							
o-Xylene	ND	5.0							
Toluene	ND	5.0							
Xylenes, Total	ND	5.0							
Surr: 1,2-Dichloroethane-d4	44.77	0	50	0	89.5	76 - 125			
Surr: 4-Bromofluorobenzene	46.6	0	50	0	93.2	83 - 120			
Surr: Dibromofluoromethane	46.8	0	50	0	93.6	80 - 119			
Surr: Toluene-d8	51.23	0	50	0	102	81 - 118			

LCS	Sample ID: VLCSS1-121417	Units: ug/Kg		Analysis Date: 14-Dec-2017 04:58					
Client ID:	Run ID: VOA8_307190	SeqNo: 4350535		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	47.8	5.0	50	0	95.6	75 - 124			
Ethylbenzene	45.31	5.0	50	0	90.6	70 - 123			
m,p-Xylene	79.14	10	100	0	79.1	77 - 125			
o-Xylene	46.64	5.0	50	0	93.3	78 - 122			
Toluene	44.72	5.0	50	0	89.4	76 - 122			
Xylenes, Total	125.8	5.0	150	0	83.9	77 - 128			
Surr: 1,2-Dichloroethane-d4	58.47	0	50	0	117	76 - 125			
Surr: 4-Bromofluorobenzene	52.32	0	50	0	105	83 - 120			
Surr: Dibromofluoromethane	54.68	0	50	0	109	80 - 119			
Surr: Toluene-d8	49.29	0	50	0	98.6	81 - 118			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.

Project: Foster TB

WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: R307190		Instrument: VOA8		Method: SW8260						
MS	Sample ID: HS17120550-05MS	Units: ug/Kg			Analysis Date: 14-Dec-2017 08:37					
Client ID:	Run ID: VOA8_307190			SeqNo: 4350542		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	59.39	5.0	49.5	0	120	70 - 130				
Ethylbenzene	60.03	5.0	49.5	0	121	70 - 130				
m,p-Xylene	106.7	9.9	99	0	108	70 - 130				
o-Xylene	59.17	5.0	49.5	0	120	70 - 130				
Toluene	57.86	5.0	49.5	0	117	70 - 130				
Xylenes, Total	165.9	5.0	148.5	0	112	70 - 130				
Surr: 1,2-Dichloroethane-d4	54.04	0	49.5	0	109	70 - 126				
Surr: 4-Bromofluorobenzene	51.38	0	49.5	0	104	72 - 120				
Surr: Dibromofluoromethane	53.9	0	49.5	0	109	70 - 130				
Surr: Toluene-d8	48.93	0	49.5	0	98.8	82 - 121				
MSD	Sample ID: HS17120550-05MSD	Units: ug/Kg			Analysis Date: 14-Dec-2017 09:04					
Client ID:	Run ID: VOA8_307190			SeqNo: 4350543		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	58.55	4.9	49	0	119	70 - 130	59.39	1.41	30	
Ethylbenzene	57.49	4.9	49	0	117	70 - 130	60.03	4.32	30	
m,p-Xylene	103.4	9.8	98	0	106	70 - 130	106.7	3.09	30	
o-Xylene	57.65	4.9	49	0	118	70 - 130	59.17	2.6	30	
Toluene	56.1	4.9	49	0	114	70 - 130	57.86	3.09	30	
Xylenes, Total	161.1	4.9	147	0	110	70 - 130	165.9	2.92	30	
Surr: 1,2-Dichloroethane-d4	53.55	0	49	0	109	70 - 126	54.04	0.906	30	
Surr: 4-Bromofluorobenzene	51.09	0	49	0	104	72 - 120	51.38	0.571	30	
Surr: Dibromofluoromethane	53.35	0	49	0	109	70 - 130	53.9	1.03	30	
Surr: Toluene-d8	48.74	0	49	0	99.5	82 - 121	48.93	0.388	30	
The following samples were analyzed in this batch:										
HS17120582-02		HS17120582-04			HS17120582-06			HS17120582-07		
HS17120582-09										

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.

Project: Foster TB

WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: R307294		Instrument: VOA8		Method: SW8260					
MBLK	Sample ID: VBLKS1-121417	Units: ug/Kg		Analysis Date: 14-Dec-2017 17:20					
Client ID:	Run ID: VOA8_307294	SeqNo: 4352697		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	ND	5.0							
Ethylbenzene	ND	5.0							
m,p-Xylene	ND	10							
o-Xylene	ND	5.0							
Toluene	ND	5.0							
Xylenes, Total	ND	5.0							
Surr: 1,2-Dichloroethane-d4	43.11	0	50	0	86.2	76 - 125			
Surr: 4-Bromofluorobenzene	48.13	0	50	0	96.3	83 - 120			
Surr: Dibromofluoromethane	46.21	0	50	0	92.4	80 - 119			
Surr: Toluene-d8	52.37	0	50	0	105	81 - 118			

LCS	Sample ID: VLCSS1-121417	Units: ug/Kg		Analysis Date: 14-Dec-2017 16:53					
Client ID:	Run ID: VOA8_307294	SeqNo: 4352696		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	48.95	5.0	50	0	97.9	75 - 124			
Ethylbenzene	48.93	5.0	50	0	97.9	70 - 123			
m,p-Xylene	83.73	10	100	0	83.7	77 - 125			
o-Xylene	49.5	5.0	50	0	99.0	78 - 122			
Toluene	47.58	5.0	50	0	95.2	76 - 122			
Xylenes, Total	133.2	5.0	150	0	88.8	77 - 128			
Surr: 1,2-Dichloroethane-d4	58.96	0	50	0	118	76 - 125			
Surr: 4-Bromofluorobenzene	53.25	0	50	0	107	83 - 120			
Surr: Dibromofluoromethane	54.5	0	50	0	109	80 - 119			
Surr: Toluene-d8	50.01	0	50	0	100	81 - 118			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.

Project: Foster TB

WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: R307294		Instrument: VOA8		Method: SW8260						
MS		Sample ID: HS17120757-03MS		Units: ug/Kg		Analysis Date: 14-Dec-2017 20:04				
Client ID:		Run ID: VOA8_307294		SeqNo: 4352703		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	143.7	5.1	51	11.34	259	70 - 130				S
Ethylbenzene	92.21	5.1	51	5.582	170	70 - 130				S
m,p-Xylene	119.3	10	102	0	117	70 - 130				
o-Xylene	52.35	5.1	51	3.389	96.0	70 - 130				
Toluene	42.82	5.1	51	2.246	79.6	70 - 130				
Xylenes, Total	171.7	5.1	153	3.389	110	70 - 130				
Surr: 1,2-Dichloroethane-d4	57.22	0	51	0	112	70 - 126				
Surr: 4-Bromofluorobenzene	55.48	0	51	0	109	72 - 120				
Surr: Dibromofluoromethane	57.26	0	51	0	112	70 - 130				
Surr: Toluene-d8	51.3	0	51	0	101	82 - 121				

MSD		Sample ID: HS17120757-03MSD		Units: ug/Kg		Analysis Date: 14-Dec-2017 20:32				
Client ID:		Run ID: VOA8_307294		SeqNo: 4352704		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	117.8	5.1	51	11.34	209	70 - 130	143.7	19.8	30	S
Ethylbenzene	68.37	5.1	51	5.582	123	70 - 130	92.21	29.7	30	
m,p-Xylene	87.68	10	102	0	86.0	70 - 130	119.3	30.6	30	R
o-Xylene	45.04	5.1	51	3.389	81.7	70 - 130	52.35	15	30	
Toluene	45.13	5.1	51	2.246	84.1	70 - 130	42.82	5.26	30	
Xylenes, Total	132.7	5.1	153	3.389	84.5	70 - 130	171.7	25.6	30	
Surr: 1,2-Dichloroethane-d4	58.91	0	51	0	116	70 - 126	57.22	2.91	30	
Surr: 4-Bromofluorobenzene	55.73	0	51	0	109	72 - 120	55.48	0.451	30	
Surr: Dibromofluoromethane	56.43	0	51	0	111	70 - 130	57.26	1.45	30	
Surr: Toluene-d8	52.03	0	51	0	102	82 - 121	51.3	1.4	30	

The following samples were analyzed in this batch: HS17120582-08 HS17120582-10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.

Project: Foster TB

WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: R307409		Instrument: VOA8		Method: SW8260					
MBLK	Sample ID: MBLKW1-121817	Units: ug/Kg		Analysis Date: 18-Dec-2017 11:19					
Client ID:	Run ID: VOA8_307409	SeqNo: 4355588		PrepDate:		DF: 50			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	ND	250							
Ethylbenzene	ND	250							
m,p-Xylene	ND	500							
o-Xylene	ND	250							
Toluene	ND	250							
Xylenes, Total	ND	250							
<i>Surr: 1,2-Dichloroethane-d4</i>	2027	0	2500	0	81.1	76 - 125			
<i>Surr: 4-Bromofluorobenzene</i>	2182	0	2500	0	87.3	83 - 120			
<i>Surr: Dibromofluoromethane</i>	2305	0	2500	0	92.2	80 - 119			
<i>Surr: Toluene-d8</i>	2426	0	2500	0	97.0	81 - 118			

LCS	Sample ID: VLCSW1-121817	Units: ug/Kg		Analysis Date: 18-Dec-2017 10:33					
Client ID:	Run ID: VOA8_307409	SeqNo: 4355587		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	42.26	5.0	50	0	84.5	75 - 124			
Ethylbenzene	45.09	5.0	50	0	90.2	70 - 123			
m,p-Xylene	88.79	10	100	0	88.8	77 - 125			
o-Xylene	43.78	5.0	50	0	87.6	78 - 122			
Toluene	43.44	5.0	50	0	86.9	76 - 122			
Xylenes, Total	132.6	5.0	150	0	88.4	77 - 128			
<i>Surr: 1,2-Dichloroethane-d4</i>	46.3	0	50	0	92.6	76 - 125			
<i>Surr: 4-Bromofluorobenzene</i>	47.73	0	50	0	95.5	83 - 120			
<i>Surr: Dibromofluoromethane</i>	48.45	0	50	0	96.9	80 - 119			
<i>Surr: Toluene-d8</i>	47.45	0	50	0	94.9	81 - 118			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.

Project: Foster TB

WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: R307409		Instrument: VOA8		Method: SW8260					
MS		Sample ID: HS17120578-01MS		Units: ug/Kg		Analysis Date: 18-Dec-2017 14:51			
Client ID:		Run ID: VOA8_307409		SeqNo: 4356507		PrepDate:		DF: 5000	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	215200	25000	252500	0	85.2	70 - 130			
Ethylbenzene	296200	25000	252500	84030	84.0	70 - 130			
m,p-Xylene	637600	50000	505000	218600	83.0	70 - 130			
o-Xylene	331600	25000	252500	124800	81.9	70 - 130			
Toluene	261300	25000	252500	51840	83.0	70 - 130			
Xylenes, Total	969200	25000	757500	343400	82.6	70 - 130			
Surr: 1,2-Dichloroethane-d4	231400	0	252500	0	91.6	70 - 126			
Surr: 4-Bromofluorobenzene	249900	0	252500	0	99.0	72 - 120			
Surr: Dibromofluoromethane	249700	0	252500	0	98.9	70 - 130			
Surr: Toluene-d8	237100	0	252500	0	93.9	82 - 121			

MSD		Sample ID: HS17120578-01MSD		Units: ug/Kg		Analysis Date: 18-Dec-2017 15:15			
Client ID:		Run ID: VOA8_307409		SeqNo: 4356508		PrepDate:		DF: 5000	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	279500	25000	252500	0	111	70 - 130	215200	26	30
Ethylbenzene	352100	25000	252500	84030	106	70 - 130	296200	17.2	30
m,p-Xylene	746800	50000	505000	218600	105	70 - 130	637600	15.8	30
o-Xylene	385900	25000	252500	124800	103	70 - 130	331600	15.1	30
Toluene	321800	25000	252500	51840	107	70 - 130	261300	20.7	30
Xylenes, Total	1133000	25000	757500	343400	104	70 - 130	969200	15.6	30
Surr: 1,2-Dichloroethane-d4	234300	0	252500	0	92.8	70 - 126	231400	1.24	30
Surr: 4-Bromofluorobenzene	247400	0	252500	0	98.0	72 - 120	249900	1.02	30
Surr: Dibromofluoromethane	242400	0	252500	0	96.0	70 - 130	249700	2.95	30
Surr: Toluene-d8	238000	0	252500	0	94.2	82 - 121	237100	0.347	30

The following samples were analyzed in this batch:									
HS17120582-01		HS17120582-03		HS17120582-05		HS17120582-07			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.

Project: Foster TB

WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: 123505		Instrument: ICS3K2		Method: E300						
MBLK	Sample ID: MBLK-123505	Units: mg/Kg		Analysis Date: 18-Dec-2017 10:01						
Client ID:		Run ID: ICS3K2_307504		SeqNo: 4358031	PrepDate: 18-Dec-2017	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	ND	5.00								
LCS	Sample ID: LCS-123505	Units: mg/Kg		Analysis Date: 18-Dec-2017 10:22						
Client ID:		Run ID: ICS3K2_307504		SeqNo: 4358032	PrepDate: 18-Dec-2017	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	198.6	5.00	200	0	99.3	90 - 110				
LCSD	Sample ID: LCSD-123505	Units: mg/Kg		Analysis Date: 18-Dec-2017 10:44						
Client ID:		Run ID: ICS3K2_307504		SeqNo: 4358033	PrepDate: 18-Dec-2017	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	197.5	5.00	200	0	98.8	90 - 110	198.6	0.53	20	
MS	Sample ID: HS17120818-01MS	Units: mg/Kg		Analysis Date: 18-Dec-2017 12:43						
Client ID:		Run ID: ICS3K2_307504		SeqNo: 4358035	PrepDate: 18-Dec-2017	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	241.8	4.93	98.63	131.7	112	75 - 125				
MS	Sample ID: HS17120582-10MS	Units: mg/Kg		Analysis Date: 18-Dec-2017 22:15						
Client ID: SS-5 1'		Run ID: ICS3K2_307504		SeqNo: 4358051	PrepDate: 18-Dec-2017	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	105.8	4.91	98.13	6.647	101	75 - 125				
MSD	Sample ID: HS17120818-01MSD	Units: mg/Kg		Analysis Date: 18-Dec-2017 13:05						
Client ID:		Run ID: ICS3K2_307504		SeqNo: 4358036	PrepDate: 18-Dec-2017	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	242.2	4.94	98.84	131.7	112	75 - 125	241.8	0.177	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
Project: Foster TB
WorkOrder: HS17120582

QC BATCH REPORT

Batch ID: 123505		Instrument: ICS3K2		Method: E300	
MSD	Sample ID: HS17120582-10MSD	Units: mg/Kg		Analysis Date: 18-Dec-2017 22:37	
Client ID: SS-5 1'	Run ID: ICS3K2_307504		SeqNo: 4358052	PrepDate: 18-Dec-2017	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	107.8	4.97	99.41	6.647 102	75 - 125 105.8 1.83 20

The following samples were analyzed in this batch:

HS17120582-01	HS17120582-02	HS17120582-03	HS17120582-04
HS17120582-05	HS17120582-06	HS17120582-07	HS17120582-08
HS17120582-09	HS17120582-10		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Leggette, Brashears & Graham, Inc.
Project: Foster TB
WorkOrder: HS17120582

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/Kg	Milligrams per Kilogram

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	17-027-0	27-Mar-2018
California	2919 2016-2018	31-Jul-2018
Illinois	004112	09-May-2018
Kentucky	123043	30-Apr-2018
Louisiana	03087 2017-2017	30-Jun-2018
North Carolina	624-2017	31-Dec-2017
North Dakota	R193 2017-2017	30-Apr-2018
Oklahoma	2017-088	31-Aug-2018
Texas	T104704231-17-19	30-Apr-2018

Sample Receipt Checklist

Client Name: LBG Addison Texas
Work Order: HS17120582

Date/Time Received: **09-Dec-2017 09:50**
Received by: **JRM**

Checklist completed by: Cesar A. Lira 11-Dec-2017
eSignature Date

Reviewed by: Bernadette A. Fini 12-Dec-2017
eSignature Date

Matrices: **SOIL**Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☒	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☒	N/A ☐
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s): 0.4C/0.7C UC/C IR25

Cooler(s)/Kit(s): WHITE

Date/Time sample(s) sent to storage: 12/09/2017 19:00

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes: Samples refrigerated prior to login. All sample labels missing collection date/time; logged per COC instructions. Following IDs do not match; SS-3 1' Labels: SS-3 2'

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 123456

☐ Cincinnati, OH
+1 513 733 5336

☐ Everett, WA
+1 425 356 2600

☐ Fort Collins, CO
+1 970 490 1511

☐ Holland, MI
+1 616 399 6070

☒ Houston, TX
+1 281 530 5656

☐ Middletown, PA
+1 717 944 5541

☐ Salt Lake City, UT
+1 801 266 7700

☐ Spring City, PA
+1 610 948 4903

☐ York, PA
+1 717 505 5280

Customer Information			ALS Project Manager:			Work Order #:											
Project Information			Parameter/Method Request for Analysis														
Purchase Order		Project Name	FOSTER TB			A	TPH										
Work Order		Project Number				B	BTEX										
Company Name	LBC	Bill To Company				C	Chlorides										
Send Report To	Matthew Boyle	Invoice Attn.				D											
Address	15305 N Dallas PKWY SUITE 300	Address	Same			E											
City/State/Zip	Addison	City/State/Zip				F											
Phone	817 713 0262	Phone				G											
Fax		Fax				H											
e-Mail Address		e-Mail Address				I											
						J											
HS17120582 Leggette, Brashears & Graham, Inc. Foster TB 																	
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SS-1 0.5'	12/8/17	4:10	Soil	100	2	✓	✓	✓								
2	SS-1 1'		4:15														
3	SS-2 0.5'		4:20														
4	SS-2 1'		4:25														
5	SS-3 0.5'		4:30														
6	SS-3 1'		4:35														
7	SS-4 0.5'		4:40														
8	SS-4 1'		4:45														
9	SS-5 0.5'		4:50														
10	SS-5 1'		4:55														
Sampler(s): Please Print & Sign			Shipment Method:			Required Turnaround Time:			Results Due Date:								
Matthew Boyle Matthew Boyle			FedEx			☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour											
Relinquished by:		Date:	Time:	Received by:		Notes:											
Matthew Boyle		12-8-17	3:30														
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler Temp.		QC Package: (Check Box Below)									
				Tom 12/11/17 0830		0.4c		☐ Level II: Standard QC ☐ Level III: Std QC + Raw Data ☐ Level IV: SW846 CLP-Like									
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):				Other:									
				White													
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035																	

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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white DEC 03 2017

TRK# 7888 3494 3895 SATURDAY 12:00P
0201 PRIORITY OVERNIGHT

XO SGRA *white* 77099
TX-US
IAH



5165160 0900c 00:17 MEMH 50701/5740/A17C



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 02, 2018

Matthew Boyle
WSP Parsons Brinckerhoff
15305 N. Dallas Parkway
Suite 300
Addison, TX 75001

Work Order: **HS18061236**

Laboratory Results for: **Percussion-Foster Tank Battery**

Dear Matthew,

ALS Environmental received 14 sample(s) on Jun 22, 2018 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER
Bernadette A. Fini
Project Manager

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
Work Order: HS18061236

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS18061236-01	S1 @ 2'	Soil		21-Jun-2018 05:55	22-Jun-2018 08:30	☐
HS18061236-02	S1 @ 3'	Soil		21-Jun-2018 06:15	22-Jun-2018 08:30	☐
HS18061236-03	S2 @ 2'	Soil		21-Jun-2018 06:24	22-Jun-2018 08:30	☐
HS18061236-04	S2 @ 3'	Soil		21-Jun-2018 06:35	22-Jun-2018 08:30	☐
HS18061236-05	S2 @ 4'	Soil		21-Jun-2018 06:46	22-Jun-2018 08:30	☐
HS18061236-06	S4 @ 2'	Soil		21-Jun-2018 06:54	22-Jun-2018 08:30	☐
HS18061236-07	S4 @ 3'	Soil		21-Jun-2018 07:00	22-Jun-2018 08:30	☐
HS18061236-08	S4 @ 4'	Soil		21-Jun-2018 07:07	22-Jun-2018 08:30	☐
HS18061236-09	S5 @ 2'	Soil		21-Jun-2018 07:15	22-Jun-2018 08:30	☐
HS18061236-10	S5 @ 3'	Soil		21-Jun-2018 07:23	22-Jun-2018 08:30	☐
HS18061236-11	S5 @ 4'	Soil		21-Jun-2018 07:30	22-Jun-2018 08:30	☐
HS18061236-12	S7 @ 2'	Soil		21-Jun-2018 07:43	22-Jun-2018 08:30	☐
HS18061236-13	S7 @ 3'	Soil		21-Jun-2018 07:49	22-Jun-2018 08:30	☐
HS18061236-14	S7 @ 4'	Soil		21-Jun-2018 07:57	22-Jun-2018 08:30	☐

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
Work Order: HS18061236

CASE NARRATIVE

GC Semivolatiles by Method SW8015M

Batch ID: 129781

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method SW8015

Batch ID: R318804

Sample ID: HS18061011-03MS

- MS and MSD are for an unrelated sample

GCMS Volatiles by Method SW8260

Batch ID: R318805

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R318715,R318806

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R318618

Sample ID: S4 @ 4' (HS18061236-08MS)

- MS failed QC limits for some compounds.

WetChemistry by Method E300

Batch ID: 129848,129923

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S1 @ 2'
 Collection Date: 21-Jun-2018 05:55

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 06:27
Ethylbenzene	U		0.00070	0.0050	mg/Kg	1	28-Jun-2018 06:27
m,p-Xylene	U		0.0016	0.010	mg/Kg	1	28-Jun-2018 06:27
o-Xylene	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 06:27
Toluene	U		0.00060	0.0050	mg/Kg	1	28-Jun-2018 06:27
Xylenes, Total	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 06:27
Surr: 1,2-Dichloroethane-d4	97.5			70-126	%REC	1	28-Jun-2018 06:27
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	28-Jun-2018 06:27
Surr: Dibromofluoromethane	93.7			70-130	%REC	1	28-Jun-2018 06:27
Surr: Toluene-d8	102			70-130	%REC	1	28-Jun-2018 06:27
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	27-Jun-2018 13:54
Surr: 4-Bromofluorobenzene	81.7			70-123	%REC	1	27-Jun-2018 13:54
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	0.51	J	0.50	1.7	mg/Kg	1	26-Jun-2018 20:43
TPH (Motor Oil Range)	8.1	n	0.50	3.4	mg/Kg	1	26-Jun-2018 20:43
Surr: 2-Fluorobiphenyl	60.1			60-129	%REC	1	26-Jun-2018 20:43
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	71.5		1.98	4.94	mg/Kg	1	28-Jun-2018 06:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S1 @ 3'
 Collection Date: 21-Jun-2018 06:15

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-02
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	27-Jun-2018 15:50
Ethylbenzene	U		0.00069	0.0050	mg/Kg	1	27-Jun-2018 15:50
m,p-Xylene	U		0.0016	0.0099	mg/Kg	1	27-Jun-2018 15:50
o-Xylene	U		0.00099	0.0050	mg/Kg	1	27-Jun-2018 15:50
Toluene	U		0.00059	0.0050	mg/Kg	1	27-Jun-2018 15:50
Xylenes, Total	U		0.00099	0.0050	mg/Kg	1	27-Jun-2018 15:50
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>99.4</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2018 15:50</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>102</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2018 15:50</i>
<i>Surr: Dibromofluoromethane</i>	<i>97.0</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2018 15:50</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2018 15:50</i>
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.0099	0.050	mg/Kg	1	27-Jun-2018 14:11
<i>Surr: 4-Bromofluorobenzene</i>	<i>72.9</i>			<i>70-123</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2018 14:11</i>
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	U		0.50	1.7	mg/Kg	1	28-Jun-2018 19:46
TPH (Motor Oil Range)	5.5	n	0.50	3.4	mg/Kg	1	28-Jun-2018 19:46
<i>Surr: 2-Fluorobiphenyl</i>	<i>61.9</i>			<i>60-129</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 19:46</i>
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	101		1.99	4.99	mg/Kg	1	28-Jun-2018 07:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S2 @ 2'
 Collection Date: 21-Jun-2018 06:24

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-03
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 05:40
Ethylbenzene	0.0015	J	0.00069	0.0050	mg/Kg	1	28-Jun-2018 05:40
m,p-Xylene	U		0.0016	0.0099	mg/Kg	1	28-Jun-2018 05:40
o-Xylene	U		0.00099	0.0050	mg/Kg	1	28-Jun-2018 05:40
Toluene	U		0.00059	0.0050	mg/Kg	1	28-Jun-2018 05:40
Xylenes, Total	U		0.00099	0.0050	mg/Kg	1	28-Jun-2018 05:40
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>98.7</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 05:40</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>102</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 05:40</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.5</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 05:40</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 05:40</i>
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.0099	0.050	mg/Kg	1	27-Jun-2018 14:27
<i>Surr: 4-Bromofluorobenzene</i>	<i>80.7</i>			<i>70-123</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2018 14:27</i>
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	9.1		0.50	1.7	mg/Kg	1	26-Jun-2018 21:07
TPH (Motor Oil Range)	15	n	0.50	3.4	mg/Kg	1	26-Jun-2018 21:07
<i>Surr: 2-Fluorobiphenyl</i>	<i>63.4</i>			<i>60-129</i>	<i>%REC</i>	<i>1</i>	<i>26-Jun-2018 21:07</i>
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	3,830		19.9	49.7	mg/Kg	10	28-Jun-2018 07:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S2 @ 3'
 Collection Date: 21-Jun-2018 06:35

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-04
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 06:04
Ethylbenzene	U		0.00069	0.0050	mg/Kg	1	28-Jun-2018 06:04
m,p-Xylene	U		0.0016	0.0099	mg/Kg	1	28-Jun-2018 06:04
o-Xylene	U		0.00099	0.0050	mg/Kg	1	28-Jun-2018 06:04
Toluene	U		0.00059	0.0050	mg/Kg	1	28-Jun-2018 06:04
Xylenes, Total	U		0.00099	0.0050	mg/Kg	1	28-Jun-2018 06:04
Surr: 1,2-Dichloroethane-d4	92.5			70-126	%REC	1	28-Jun-2018 06:04
Surr: 4-Bromofluorobenzene	99.7			70-130	%REC	1	28-Jun-2018 06:04
Surr: Dibromofluoromethane	94.7			70-130	%REC	1	28-Jun-2018 06:04
Surr: Toluene-d8	105			70-130	%REC	1	28-Jun-2018 06:04
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	27-Jun-2018 14:43
Surr: 4-Bromofluorobenzene	78.1			70-123	%REC	1	27-Jun-2018 14:43
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	2.6		0.50	1.7	mg/Kg	1	26-Jun-2018 21:31
TPH (Motor Oil Range)	13	n	0.50	3.4	mg/Kg	1	26-Jun-2018 21:31
Surr: 2-Fluorobiphenyl	69.6			60-129	%REC	1	26-Jun-2018 21:31
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	564		3.97	9.92	mg/Kg	2	28-Jun-2018 07:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S2 @ 4'
 Collection Date: 21-Jun-2018 06:46

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-05
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 04:53
Ethylbenzene	U		0.00071	0.0050	mg/Kg	1	28-Jun-2018 04:53
m,p-Xylene	U		0.0016	0.010	mg/Kg	1	28-Jun-2018 04:53
o-Xylene	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 04:53
Toluene	U		0.00061	0.0050	mg/Kg	1	28-Jun-2018 04:53
Xylenes, Total	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 04:53
Surr: 1,2-Dichloroethane-d4	97.5			70-126	%REC	1	28-Jun-2018 04:53
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	28-Jun-2018 04:53
Surr: Dibromofluoromethane	98.5			70-130	%REC	1	28-Jun-2018 04:53
Surr: Toluene-d8	103			70-130	%REC	1	28-Jun-2018 04:53
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	27-Jun-2018 15:00
Surr: 4-Bromofluorobenzene	75.4			70-123	%REC	1	27-Jun-2018 15:00
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	3.8		0.50	1.7	mg/Kg	1	26-Jun-2018 21:56
TPH (Motor Oil Range)	6.4	n	0.50	3.4	mg/Kg	1	26-Jun-2018 21:56
Surr: 2-Fluorobiphenyl	63.0			60-129	%REC	1	26-Jun-2018 21:56
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	419		3.97	9.93	mg/Kg	2	28-Jun-2018 08:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S4 @ 2'
 Collection Date: 21-Jun-2018 06:54

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-06
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 05:17
Ethylbenzene	U		0.00069	0.0050	mg/Kg	1	28-Jun-2018 05:17
m,p-Xylene	U		0.0016	0.0099	mg/Kg	1	28-Jun-2018 05:17
o-Xylene	U		0.00099	0.0050	mg/Kg	1	28-Jun-2018 05:17
Toluene	U		0.00059	0.0050	mg/Kg	1	28-Jun-2018 05:17
Xylenes, Total	U		0.00099	0.0050	mg/Kg	1	28-Jun-2018 05:17
Surr: 1,2-Dichloroethane-d4	95.0			70-126	%REC	1	28-Jun-2018 05:17
Surr: 4-Bromofluorobenzene	99.9			70-130	%REC	1	28-Jun-2018 05:17
Surr: Dibromofluoromethane	98.6			70-130	%REC	1	28-Jun-2018 05:17
Surr: Toluene-d8	102			70-130	%REC	1	28-Jun-2018 05:17
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	27-Jun-2018 15:16
Surr: 4-Bromofluorobenzene	84.0			70-123	%REC	1	27-Jun-2018 15:16
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	4.7		0.50	1.7	mg/Kg	1	26-Jun-2018 23:08
TPH (Motor Oil Range)	12	n	0.50	3.4	mg/Kg	1	26-Jun-2018 23:08
Surr: 2-Fluorobiphenyl	71.0			60-129	%REC	1	26-Jun-2018 23:08
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	177		3.94	9.85	mg/Kg	2	28-Jun-2018 09:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S4 @ 3'
 Collection Date: 21-Jun-2018 07:00

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-07
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	27-Jun-2018 12:36
Ethylbenzene	U		0.00070	0.0050	mg/Kg	1	27-Jun-2018 12:36
m,p-Xylene	U		0.0016	0.010	mg/Kg	1	27-Jun-2018 12:36
o-Xylene	U		0.0010	0.0050	mg/Kg	1	27-Jun-2018 12:36
Toluene	U		0.00060	0.0050	mg/Kg	1	27-Jun-2018 12:36
Xylenes, Total	U		0.0010	0.0050	mg/Kg	1	27-Jun-2018 12:36
Surr: 1,2-Dichloroethane-d4	97.4			70-126	%REC	1	27-Jun-2018 12:36
Surr: 4-Bromofluorobenzene	97.7			70-130	%REC	1	27-Jun-2018 12:36
Surr: Dibromofluoromethane	94.8			70-130	%REC	1	27-Jun-2018 12:36
Surr: Toluene-d8	101			70-130	%REC	1	27-Jun-2018 12:36
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	27-Jun-2018 15:32
Surr: 4-Bromofluorobenzene	84.4			70-123	%REC	1	27-Jun-2018 15:32
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	3.1		0.50	1.7	mg/Kg	1	26-Jun-2018 23:33
TPH (Motor Oil Range)	10	n	0.50	3.4	mg/Kg	1	26-Jun-2018 23:33
Surr: 2-Fluorobiphenyl	63.9			60-129	%REC	1	26-Jun-2018 23:33
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	237		1.96	4.91	mg/Kg	1	28-Jun-2018 09:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S4 @ 4'
 Collection Date: 21-Jun-2018 07:07

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-08
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00049	0.0049	mg/Kg	1	26-Jun-2018 02:39
Ethylbenzene	U		0.00069	0.0049	mg/Kg	1	26-Jun-2018 02:39
m,p-Xylene	U		0.0016	0.0098	mg/Kg	1	26-Jun-2018 02:39
o-Xylene	U		0.00098	0.0049	mg/Kg	1	26-Jun-2018 02:39
Toluene	U		0.00059	0.0049	mg/Kg	1	26-Jun-2018 02:39
Xylenes, Total	U		0.00098	0.0049	mg/Kg	1	26-Jun-2018 02:39
Surr: 1,2-Dichloroethane-d4	103			70-126	%REC	1	26-Jun-2018 02:39
Surr: 4-Bromofluorobenzene	98.2			70-130	%REC	1	26-Jun-2018 02:39
Surr: Dibromofluoromethane	101			70-130	%REC	1	26-Jun-2018 02:39
Surr: Toluene-d8	99.9			70-130	%REC	1	26-Jun-2018 02:39
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	27-Jun-2018 15:48
Surr: 4-Bromofluorobenzene	74.5			70-123	%REC	1	27-Jun-2018 15:48
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	1.1	J	0.50	1.7	mg/Kg	1	26-Jun-2018 23:57
TPH (Motor Oil Range)	7.5	n	0.50	3.4	mg/Kg	1	26-Jun-2018 23:57
Surr: 2-Fluorobiphenyl	62.6			60-129	%REC	1	26-Jun-2018 23:57
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	209		1.98	4.94	mg/Kg	1	28-Jun-2018 10:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S5 @ 2'
 Collection Date: 21-Jun-2018 07:15

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-09
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 04:30
Ethylbenzene	U		0.00070	0.0050	mg/Kg	1	28-Jun-2018 04:30
m,p-Xylene	U		0.0016	0.010	mg/Kg	1	28-Jun-2018 04:30
o-Xylene	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 04:30
Toluene	U		0.00060	0.0050	mg/Kg	1	28-Jun-2018 04:30
Xylenes, Total	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 04:30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>99.1</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 04:30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.3</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 04:30</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.0</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 04:30</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 04:30</i>
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.0099	0.050	mg/Kg	1	27-Jun-2018 16:05
<i>Surr: 4-Bromofluorobenzene</i>	<i>81.5</i>			<i>70-123</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2018 16:05</i>
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	21		0.50	1.7	mg/Kg	1	27-Jun-2018 00:21
TPH (Motor Oil Range)	46	n	0.50	3.4	mg/Kg	1	27-Jun-2018 00:21
<i>Surr: 2-Fluorobiphenyl</i>	<i>60.6</i>			<i>60-129</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2018 00:21</i>
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	180		2.00	5.00	mg/Kg	1	28-Jun-2018 11:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S5 @ 3'
 Collection Date: 21-Jun-2018 07:23

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-10
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 06:50
Ethylbenzene	U		0.00071	0.0050	mg/Kg	1	28-Jun-2018 06:50
m,p-Xylene	U		0.0016	0.010	mg/Kg	1	28-Jun-2018 06:50
o-Xylene	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 06:50
Toluene	U		0.00061	0.0050	mg/Kg	1	28-Jun-2018 06:50
Xylenes, Total	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 06:50
Surr: 1,2-Dichloroethane-d4	95.0			70-126	%REC	1	28-Jun-2018 06:50
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	28-Jun-2018 06:50
Surr: Dibromofluoromethane	96.5			70-130	%REC	1	28-Jun-2018 06:50
Surr: Toluene-d8	105			70-130	%REC	1	28-Jun-2018 06:50
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	27-Jun-2018 16:53
Surr: 4-Bromofluorobenzene	85.4			70-123	%REC	1	27-Jun-2018 16:53
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	2.9		0.50	1.7	mg/Kg	1	27-Jun-2018 00:46
TPH (Motor Oil Range)	10	n	0.50	3.4	mg/Kg	1	27-Jun-2018 00:46
Surr: 2-Fluorobiphenyl	60.4			60-129	%REC	1	27-Jun-2018 00:46
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	20.1		1.98	4.96	mg/Kg	1	28-Jun-2018 11:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S5 @ 4'
 Collection Date: 21-Jun-2018 07:30

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-11
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 11:38
Ethylbenzene	U		0.00069	0.0050	mg/Kg	1	28-Jun-2018 11:38
m,p-Xylene	U		0.0016	0.0099	mg/Kg	1	28-Jun-2018 11:38
o-Xylene	U		0.00099	0.0050	mg/Kg	1	28-Jun-2018 11:38
Toluene	U		0.00059	0.0050	mg/Kg	1	28-Jun-2018 11:38
Xylenes, Total	U		0.00099	0.0050	mg/Kg	1	28-Jun-2018 11:38
Surr: 1,2-Dichloroethane-d4	98.3			70-126	%REC	1	28-Jun-2018 11:38
Surr: 4-Bromofluorobenzene	100.0			70-130	%REC	1	28-Jun-2018 11:38
Surr: Dibromofluoromethane	95.2			70-130	%REC	1	28-Jun-2018 11:38
Surr: Toluene-d8	99.8			70-130	%REC	1	28-Jun-2018 11:38
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.0099	0.050	mg/Kg	1	27-Jun-2018 17:10
Surr: 4-Bromofluorobenzene	78.2			70-123	%REC	1	27-Jun-2018 17:10
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	2.5		0.50	1.7	mg/Kg	1	27-Jun-2018 01:10
TPH (Motor Oil Range)	12	n	0.50	3.4	mg/Kg	1	27-Jun-2018 01:10
Surr: 2-Fluorobiphenyl	66.4			60-129	%REC	1	27-Jun-2018 01:10
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	13.6		1.99	4.98	mg/Kg	1	28-Jun-2018 11:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S7 @ 2'
 Collection Date: 21-Jun-2018 07:43

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-12
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00049	0.0049	mg/Kg	1	28-Jun-2018 12:02
Ethylbenzene	U		0.00069	0.0049	mg/Kg	1	28-Jun-2018 12:02
m,p-Xylene	U		0.0016	0.0098	mg/Kg	1	28-Jun-2018 12:02
o-Xylene	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 12:02
Toluene	U		0.00059	0.0049	mg/Kg	1	28-Jun-2018 12:02
Xylenes, Total	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 12:02
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>98.4</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 12:02</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.5</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 12:02</i>
<i>Surr: Dibromofluoromethane</i>	<i>92.9</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 12:02</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 12:02</i>
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.0099	0.050	mg/Kg	1	27-Jun-2018 17:26
<i>Surr: 4-Bromofluorobenzene</i>	<i>78.8</i>			<i>70-123</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2018 17:26</i>
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	0.50	J	0.50	1.7	mg/Kg	1	27-Jun-2018 01:34
TPH (Motor Oil Range)	7.5	n	0.50	3.4	mg/Kg	1	27-Jun-2018 01:34
<i>Surr: 2-Fluorobiphenyl</i>	<i>60.6</i>			<i>60-129</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2018 01:34</i>
ANIONS BY E300.0		Method:E300				Prep:E300 / 26-Jun-2018	Analyst: KMU
Chloride	44.0		2.00	5.00	mg/Kg	1	28-Jun-2018 12:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S7 @ 3'
 Collection Date: 21-Jun-2018 07:49

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-13
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 12:27
Ethylbenzene	U		0.00070	0.0050	mg/Kg	1	28-Jun-2018 12:27
m,p-Xylene	U		0.0016	0.010	mg/Kg	1	28-Jun-2018 12:27
o-Xylene	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 12:27
Toluene	U		0.00060	0.0050	mg/Kg	1	28-Jun-2018 12:27
Xylenes, Total	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 12:27
Surr: 1,2-Dichloroethane-d4	104			70-126	%REC	1	28-Jun-2018 12:27
Surr: 4-Bromofluorobenzene	104			70-130	%REC	1	28-Jun-2018 12:27
Surr: Dibromofluoromethane	95.3			70-130	%REC	1	28-Jun-2018 12:27
Surr: Toluene-d8	103			70-130	%REC	1	28-Jun-2018 12:27
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	27-Jun-2018 17:43
Surr: 4-Bromofluorobenzene	77.2			70-123	%REC	1	27-Jun-2018 17:43
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	1.2	J	0.50	1.7	mg/Kg	1	27-Jun-2018 01:58
TPH (Motor Oil Range)	15	n	0.50	3.4	mg/Kg	1	27-Jun-2018 01:58
Surr: 2-Fluorobiphenyl	60.5			60-129	%REC	1	27-Jun-2018 01:58
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	6.17		1.98	4.95	mg/Kg	1	29-Jun-2018 04:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S7 @ 4'
 Collection Date: 21-Jun-2018 07:57

ANALYTICAL REPORT

WorkOrder:HS18061236
 Lab ID:HS18061236-14
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00049	0.0049	mg/Kg	1	28-Jun-2018 12:52
Ethylbenzene	U		0.00069	0.0049	mg/Kg	1	28-Jun-2018 12:52
m,p-Xylene	U		0.0016	0.0098	mg/Kg	1	28-Jun-2018 12:52
o-Xylene	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 12:52
Toluene	U		0.00059	0.0049	mg/Kg	1	28-Jun-2018 12:52
Xylenes, Total	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 12:52
Surr: 1,2-Dichloroethane-d4	99.0			70-126	%REC	1	28-Jun-2018 12:52
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	28-Jun-2018 12:52
Surr: Dibromofluoromethane	96.3			70-130	%REC	1	28-Jun-2018 12:52
Surr: Toluene-d8	102			70-130	%REC	1	28-Jun-2018 12:52
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: CL	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	27-Jun-2018 17:59
Surr: 4-Bromofluorobenzene	80.1			70-123	%REC	1	27-Jun-2018 17:59
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 25-Jun-2018	Analyst: AP
TPH (Diesel Range)	9.7	J	5.0	17	mg/Kg	10	28-Jun-2018 20:10
TPH (Motor Oil Range)	330	n	5.0	34	mg/Kg	10	28-Jun-2018 20:10
Surr: 2-Fluorobiphenyl	65.5			60-129	%REC	10	28-Jun-2018 20:10
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	11.6		2.00	5.00	mg/Kg	1	29-Jun-2018 05:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

WEIGHT LOG

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

Batch ID: 2486 **Method:** VOLATILES BY SW8260C

SampleID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS18061236-01	1	5.024 (g)	5 (mL)	1	Bulk (5030B)
HS18061236-02	1	5.045 (g)	5 (mL)	0.99	Bulk (5030B)
HS18061236-03	1	5.076 (g)	5 (mL)	0.99	Bulk (5030B)
HS18061236-04	1	5.052 (g)	5 (mL)	0.99	Bulk (5030B)
HS18061236-05	1	4.963 (g)	5 (mL)	1.01	Bulk (5030B)
HS18061236-06	1	5.035 (g)	5 (mL)	0.99	Bulk (5030B)
HS18061236-07	1	5 (g)	5 (mL)	1	Bulk (5030B)
HS18061236-08	1	5.077 (g)	5 (mL)	0.98	Bulk (5030B)
HS18061236-09	1	4.998 (g)	5 (mL)	1	Bulk (5030B)
HS18061236-10	1	4.975 (g)	5 (mL)	1.01	Bulk (5030B)
HS18061236-11	1	5.044 (g)	5 (mL)	0.99	Bulk (5030B)
HS18061236-12	1	5.103 (g)	5 (mL)	0.98	Bulk (5030B)
HS18061236-13	1	5.007 (g)	5 (mL)	1	Bulk (5030B)
HS18061236-14	1	5.106 (g)	5 (mL)	0.98	Bulk (5030B)

Batch ID: 2490 **Method:** GASOLINE RANGE ORGANICS BY SW8015C **Prep:**

SampleID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS18061236-01	1	4.99 (g)	5 (mL)	1	Bulk (5030B)
HS18061236-02	1	5.05 (g)	5 (mL)	0.99	Bulk (5030B)
HS18061236-03	1	5.06 (g)	5 (mL)	0.99	Bulk (5030B)
HS18061236-04	1	5 (g)	5 (mL)	1	Bulk (5030B)
HS18061236-05	1	5.02 (g)	5 (mL)	1	Bulk (5030B)
HS18061236-06	1	5.02 (g)	5 (mL)	1	Bulk (5030B)
HS18061236-07	1	5 (g)	5 (mL)	1	Bulk (5030B)
HS18061236-08	1	5.01 (g)	5 (mL)	1	Bulk (5030B)
HS18061236-09	1	5.03 (g)	5 (mL)	0.99	Bulk (5030B)
HS18061236-10	1	4.95 (g)	5 (mL)	1.01	Bulk (5030B)
HS18061236-11	1	5.07 (g)	5 (mL)	0.99	Bulk (5030B)
HS18061236-12	1	5.03 (g)	5 (mL)	0.99	Bulk (5030B)
HS18061236-13	1	5.02 (g)	5 (mL)	1	Bulk (5030B)
HS18061236-14	1	5 (g)	5 (mL)	1	Bulk (5030B)

Batch ID: 129781 **Method:** TPH DRO/ORO BY SW8015C **Prep:** 8015SPR_LL

SampleID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS18061236-01	1	30.01	1 (mL)	0.03332	
HS18061236-02	1	30.04	1 (mL)	0.03329	
HS18061236-03	1	30.11	1 (mL)	0.03321	
HS18061236-04	1	30.18	1 (mL)	0.03313	
HS18061236-05	1	30.12	1 (mL)	0.0332	
HS18061236-06	1	30.09	1 (mL)	0.03323	
HS18061236-07	1	30.03	1 (mL)	0.0333	
HS18061236-08	1	30.02	1 (mL)	0.03331	
HS18061236-09	1	30.07	1 (mL)	0.03326	
HS18061236-10	1	30.18	1 (mL)	0.03313	
HS18061236-11	1	30.09	1 (mL)	0.03323	
HS18061236-12	1	30.11	1 (mL)	0.03321	
HS18061236-13	1	30.15	1 (mL)	0.03317	
HS18061236-14	1	30.12	1 (mL)	0.0332	

WEIGHT LOG

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

Batch ID: 129848 **Method:** ANIONS BY E300.0 **Prep:** 300_S_PR

SampleID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS18061236-01	1	5.0618	50 (mL)	9.878
HS18061236-02	1	5.0141	50 (mL)	9.972
HS18061236-03	1	5.0305	50 (mL)	9.939
HS18061236-04	1	5.0405	50 (mL)	9.92
HS18061236-05	1	5.0351	50 (mL)	9.93
HS18061236-06	1	5.0762	50 (mL)	9.85
HS18061236-07	1	5.0919	50 (mL)	9.82
HS18061236-08	1	5.062	50 (mL)	9.878
HS18061236-09	1	5.0041	50 (mL)	9.992
HS18061236-10	1	5.0412	50 (mL)	9.918
HS18061236-11	1	5.0211	50 (mL)	9.958
HS18061236-12	1	5.0014	50 (mL)	9.997

Batch ID: 129923 **Method:** ANIONS BY E300.0 **Prep:** 300_S_PR

SampleID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS18061236-13	1	5.0504	50 (mL)	9.9
HS18061236-14	1	5.0014	50 (mL)	9.997

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 129781 Test Name : TPH DRO/ORO BY SW8015C Matrix: Soil						
HS18061236-01	S1 @ 2'	21 Jun 2018 05:55		25 Jun 2018 14:00	26 Jun 2018 20:43	1
HS18061236-02	S1 @ 3'	21 Jun 2018 06:15		25 Jun 2018 14:00	28 Jun 2018 19:46	1
HS18061236-03	S2 @ 2'	21 Jun 2018 06:24		25 Jun 2018 14:00	26 Jun 2018 21:07	1
HS18061236-04	S2 @ 3'	21 Jun 2018 06:35		25 Jun 2018 14:00	26 Jun 2018 21:31	1
HS18061236-05	S2 @ 4'	21 Jun 2018 06:46		25 Jun 2018 14:00	26 Jun 2018 21:56	1
HS18061236-06	S4 @ 2'	21 Jun 2018 06:54		25 Jun 2018 14:00	26 Jun 2018 23:08	1
HS18061236-07	S4 @ 3'	21 Jun 2018 07:00		25 Jun 2018 14:00	26 Jun 2018 23:33	1
HS18061236-08	S4 @ 4'	21 Jun 2018 07:07		25 Jun 2018 14:00	26 Jun 2018 23:57	1
HS18061236-09	S5 @ 2'	21 Jun 2018 07:15		25 Jun 2018 14:00	27 Jun 2018 00:21	1
HS18061236-10	S5 @ 3'	21 Jun 2018 07:23		25 Jun 2018 14:00	27 Jun 2018 00:46	1
HS18061236-11	S5 @ 4'	21 Jun 2018 07:30		25 Jun 2018 14:00	27 Jun 2018 01:10	1
HS18061236-12	S7 @ 2'	21 Jun 2018 07:43		25 Jun 2018 14:00	27 Jun 2018 01:34	1
HS18061236-13	S7 @ 3'	21 Jun 2018 07:49		25 Jun 2018 14:00	27 Jun 2018 01:58	1
HS18061236-14	S7 @ 4'	21 Jun 2018 07:57		25 Jun 2018 14:00	28 Jun 2018 20:10	10
Batch ID 129848 Test Name : ANIONS BY E300.0 Matrix: Soil						
HS18061236-01	S1 @ 2'	21 Jun 2018 05:55		26 Jun 2018 13:00	28 Jun 2018 06:50	1
HS18061236-02	S1 @ 3'	21 Jun 2018 06:15		26 Jun 2018 13:00	28 Jun 2018 07:11	1
HS18061236-03	S2 @ 2'	21 Jun 2018 06:24		26 Jun 2018 13:00	28 Jun 2018 07:33	10
HS18061236-04	S2 @ 3'	21 Jun 2018 06:35		26 Jun 2018 13:00	28 Jun 2018 07:55	2
HS18061236-05	S2 @ 4'	21 Jun 2018 06:46		26 Jun 2018 13:00	28 Jun 2018 08:16	2
HS18061236-06	S4 @ 2'	21 Jun 2018 06:54		26 Jun 2018 13:00	28 Jun 2018 09:21	2
HS18061236-07	S4 @ 3'	21 Jun 2018 07:00		26 Jun 2018 13:00	28 Jun 2018 09:43	1
HS18061236-08	S4 @ 4'	21 Jun 2018 07:07		26 Jun 2018 13:00	28 Jun 2018 10:48	1
HS18061236-09	S5 @ 2'	21 Jun 2018 07:15		26 Jun 2018 13:00	28 Jun 2018 11:10	1
HS18061236-10	S5 @ 3'	21 Jun 2018 07:23		26 Jun 2018 13:00	28 Jun 2018 11:32	1
HS18061236-11	S5 @ 4'	21 Jun 2018 07:30		26 Jun 2018 13:00	28 Jun 2018 11:53	1
HS18061236-12	S7 @ 2'	21 Jun 2018 07:43		26 Jun 2018 13:00	28 Jun 2018 12:15	1
Batch ID 129923 Test Name : ANIONS BY E300.0 Matrix: Soil						
HS18061236-13	S7 @ 3'	21 Jun 2018 07:49		28 Jun 2018 13:03	29 Jun 2018 04:42	1
HS18061236-14	S7 @ 4'	21 Jun 2018 07:57		28 Jun 2018 13:03	29 Jun 2018 05:04	1
Batch ID R318618 Test Name : VOLATILES BY SW8260C Matrix: Soil						
HS18061236-08	S4 @ 4'	21 Jun 2018 07:07			26 Jun 2018 02:39	1
Batch ID R318715 Test Name : VOLATILES BY SW8260C Matrix: Soil						
HS18061236-07	S4 @ 3'	21 Jun 2018 07:00			27 Jun 2018 12:36	1

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R318804 Test Name : GASOLINE RANGE ORGANICS BY SW8015C Matrix: Soil						
HS18061236-01	S1 @ 2'	21 Jun 2018 05:55			27 Jun 2018 13:54	1
HS18061236-02	S1 @ 3'	21 Jun 2018 06:15			27 Jun 2018 14:11	1
HS18061236-03	S2 @ 2'	21 Jun 2018 06:24			27 Jun 2018 14:27	1
HS18061236-04	S2 @ 3'	21 Jun 2018 06:35			27 Jun 2018 14:43	1
HS18061236-05	S2 @ 4'	21 Jun 2018 06:46			27 Jun 2018 15:00	1
HS18061236-06	S4 @ 2'	21 Jun 2018 06:54			27 Jun 2018 15:16	1
HS18061236-07	S4 @ 3'	21 Jun 2018 07:00			27 Jun 2018 15:32	1
HS18061236-08	S4 @ 4'	21 Jun 2018 07:07			27 Jun 2018 15:48	1
HS18061236-09	S5 @ 2'	21 Jun 2018 07:15			27 Jun 2018 16:05	1
HS18061236-10	S5 @ 3'	21 Jun 2018 07:23			27 Jun 2018 16:53	1
HS18061236-11	S5 @ 4'	21 Jun 2018 07:30			27 Jun 2018 17:10	1
HS18061236-12	S7 @ 2'	21 Jun 2018 07:43			27 Jun 2018 17:26	1
HS18061236-13	S7 @ 3'	21 Jun 2018 07:49			27 Jun 2018 17:43	1
HS18061236-14	S7 @ 4'	21 Jun 2018 07:57			27 Jun 2018 17:59	1
Batch ID R318805 Test Name : VOLATILES BY SW8260C Matrix: Soil						
HS18061236-02	S1 @ 3'	21 Jun 2018 06:15			27 Jun 2018 15:50	1
Batch ID R318806 Test Name : VOLATILES BY SW8260C Matrix: Soil						
HS18061236-01	S1 @ 2'	21 Jun 2018 05:55			28 Jun 2018 06:27	1
HS18061236-03	S2 @ 2'	21 Jun 2018 06:24			28 Jun 2018 05:40	1
HS18061236-04	S2 @ 3'	21 Jun 2018 06:35			28 Jun 2018 06:04	1
HS18061236-05	S2 @ 4'	21 Jun 2018 06:46			28 Jun 2018 04:53	1
HS18061236-06	S4 @ 2'	21 Jun 2018 06:54			28 Jun 2018 05:17	1
HS18061236-09	S5 @ 2'	21 Jun 2018 07:15			28 Jun 2018 04:30	1
HS18061236-10	S5 @ 3'	21 Jun 2018 07:23			28 Jun 2018 06:50	1
HS18061236-11	S5 @ 4'	21 Jun 2018 07:30			28 Jun 2018 11:38	1
HS18061236-12	S7 @ 2'	21 Jun 2018 07:43			28 Jun 2018 12:02	1
HS18061236-13	S7 @ 3'	21 Jun 2018 07:49			28 Jun 2018 12:27	1
HS18061236-14	S7 @ 4'	21 Jun 2018 07:57			28 Jun 2018 12:52	1

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: 129781		Instrument: FID-7		Method: SW8015M					
MBLK	Sample ID: MBLK-129781	Units: mg/Kg		Analysis Date: 26-Jun-2018 18:41					
Client ID:	Run ID: FID-7_318923		SeqNo: 4630765		PrepDate: 25-Jun-2018		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

TPH (Diesel Range)	U	1.7							
TPH (Motor Oil Range)	U	3.4							
Surr: 2-Fluorobiphenyl	2.412	0.10	3.33	0	72.4	70 - 130			

LCS	Sample ID: LCS-129781	Units: mg/Kg		Analysis Date: 26-Jun-2018 19:05					
Client ID:	Run ID: FID-7_318923		SeqNo: 4630766		PrepDate: 25-Jun-2018		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

TPH (Diesel Range)	28.1	1.7	33.33	0	84.3	70 - 130			
TPH (Motor Oil Range)	39.52	3.4	33.33	0	119	70 - 130			
Surr: 2-Fluorobiphenyl	2.714	0.10	3.33	0	81.5	70 - 130			

MS	Sample ID: HS18061236-02MS	Units: mg/Kg		Analysis Date: 26-Jun-2018 19:54					
Client ID: S1 @ 3'	Run ID: FID-7_318923		SeqNo: 4630767		PrepDate: 25-Jun-2018		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

TPH (Diesel Range)	28.34	1.7	33.31	0.4374	83.8	70 - 130			
TPH (Motor Oil Range)	37.68	3.4	33.31	5.486	96.7	70 - 130			
Surr: 2-Fluorobiphenyl	2.645	0.10	3.328	0	79.5	60 - 129			

MSD	Sample ID: HS18061236-02MSD	Units: mg/Kg		Analysis Date: 26-Jun-2018 20:18					
Client ID: S1 @ 3'	Run ID: FID-7_318923		SeqNo: 4630768		PrepDate: 25-Jun-2018		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

TPH (Diesel Range)	28.91	1.7	33.26	0.4374	85.6	70 - 130	28.34	1.99	30
TPH (Motor Oil Range)	40.22	3.4	33.26	5.486	104	70 - 130	37.68	6.52	30
Surr: 2-Fluorobiphenyl	2.15	0.10	3.323	0	64.7	60 - 129	2.645	20.6	30

The following samples were analyzed in this batch:			
HS18061236-01	HS18061236-02	HS18061236-03	HS18061236-04
HS18061236-05	HS18061236-06	HS18061236-07	HS18061236-08
HS18061236-09	HS18061236-10	HS18061236-11	HS18061236-12
HS18061236-13	HS18061236-14		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: R318804		Instrument: FID-14		Method: SW8015					
MBLK	Sample ID: GMBLK-180621	Units: mg/Kg		Analysis Date: 27-Jun-2018 10:38					
Client ID:	Run ID: FID-14_318804		SeqNo: 4628230		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Gasoline Range Organics U 0.050

Surr: 4-Bromofluorobenzene 0.07654 0.0050 0.1 0 76.5 75 - 121

LCS	Sample ID: GLCS-180621	Units: mg/Kg		Analysis Date: 27-Jun-2018 10:05					
Client ID:	Run ID: FID-14_318804		SeqNo: 4628229		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Gasoline Range Organics 1.054 0.050 1 0 105 72 - 121

Surr: 4-Bromofluorobenzene 0.08144 0.0050 0.1 0 81.4 75 - 121

MS	Sample ID: HS18061011-03MS	Units: mg/Kg		Analysis Date: 27-Jun-2018 11:11					
Client ID:	Run ID: FID-14_318804		SeqNo: 4628232		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Gasoline Range Organics 0.5978 0.050 0.99 0 60.4 70 - 130 S

Surr: 4-Bromofluorobenzene 0.1378 0.0050 0.099 0 139 70 - 123 S

MSD	Sample ID: HS18061011-03MSD	Units: mg/Kg		Analysis Date: 27-Jun-2018 11:27					
Client ID:	Run ID: FID-14_318804		SeqNo: 4628233		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Gasoline Range Organics 0.6089 0.049 0.98 0 62.1 70 - 130 0.5978 1.84 30 S

Surr: 4-Bromofluorobenzene 0.1328 0.0049 0.098 0 136 70 - 123 0.1378 3.69 30 S

The following samples were analyzed in this batch:				HS18061236-01	HS18061236-02	HS18061236-03	HS18061236-04
				HS18061236-05	HS18061236-06	HS18061236-07	HS18061236-08
				HS18061236-09	HS18061236-10	HS18061236-11	HS18061236-12
				HS18061236-13	HS18061236-14		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: R318618		Instrument: VOA5		Method: SW8260					
MBLK	Sample ID: VBLKS1-062618	Units: ug/Kg		Analysis Date: 26-Jun-2018 02:15					
Client ID:	Run ID: VOA5_318618	SeqNo: 4624366		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
m,p-Xylene	U	10							
o-Xylene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	49.23	0	50	0	98.5	76 - 125			
Surr: 4-Bromofluorobenzene	47.46	0	50	0	94.9	83 - 120			
Surr: Dibromofluoromethane	48.38	0	50	0	96.8	80 - 119			
Surr: Toluene-d8	49.03	0	50	0	98.1	81 - 118			

LCS	Sample ID: VLCSS1-062618	Units: ug/Kg		Analysis Date: 26-Jun-2018 01:28					
Client ID:	Run ID: VOA5_318618	SeqNo: 4624365		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	48.4	5.0	50	0	96.8	75 - 124			
Ethylbenzene	46.2	5.0	50	0	92.4	70 - 123			
m,p-Xylene	91.9	10	100	0	91.9	77 - 125			
o-Xylene	47.21	5.0	50	0	94.4	78 - 122			
Toluene	46.67	5.0	50	0	93.3	76 - 122			
Xylenes, Total	139.1	5.0	150	0	92.7	77 - 128			
Surr: 1,2-Dichloroethane-d4	54.8	0	50	0	110	76 - 125			
Surr: 4-Bromofluorobenzene	50.55	0	50	0	101	83 - 120			
Surr: Dibromofluoromethane	51.15	0	50	0	102	80 - 119			
Surr: Toluene-d8	49.55	0	50	0	99.1	81 - 118			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: R318618		Instrument: VOA5		Method: SW8260					
MS		Sample ID: HS18061236-08MS		Units: ug/Kg		Analysis Date: 26-Jun-2018 03:49			
Client ID: S4 @ 4'		Run ID: VOA5_318618		SeqNo: 4624370		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	36.48	5.0	50	0	73.0	70 - 130			
Ethylbenzene	33.36	5.0	50	0	66.7	70 - 130			S
m,p-Xylene	66.79	10	100	0	66.8	70 - 130			S
o-Xylene	34	5.0	50	0	68.0	70 - 130			S
Toluene	34.27	5.0	50	0	68.5	70 - 130			S
Xylenes, Total	100.8	5.0	150	0	67.2	70 - 130			S
Surr: 1,2-Dichloroethane-d4	54.17	0	50	0	108	70 - 126			
Surr: 4-Bromofluorobenzene	49.73	0	50	0	99.5	70 - 130			
Surr: Dibromofluoromethane	53.39	0	50	0	107	70 - 130			
Surr: Toluene-d8	49.24	0	50	0	98.5	70 - 130			

MSD		Sample ID: HS18061236-08MSD		Units: ug/Kg		Analysis Date: 26-Jun-2018 04:13			
Client ID: S4 @ 4'		Run ID: VOA5_318618		SeqNo: 4624371		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	38.74	5.0	50	0	77.5	70 - 130	36.48	6.01	30
Ethylbenzene	36.62	5.0	50	0	73.2	70 - 130	33.36	9.33	30
m,p-Xylene	72.18	10	100	0	72.2	70 - 130	66.79	7.76	30
o-Xylene	37.22	5.0	50	0	74.4	70 - 130	34	9.03	30
Toluene	36.98	5.0	50	0	74.0	70 - 130	34.27	7.6	30
Xylenes, Total	109.4	5.0	150	0	72.9	70 - 130	100.8	8.19	30
Surr: 1,2-Dichloroethane-d4	53.36	0	50	0	107	70 - 126	54.17	1.51	30
Surr: 4-Bromofluorobenzene	50.8	0	50	0	102	70 - 130	49.73	2.11	30
Surr: Dibromofluoromethane	52.6	0	50	0	105	70 - 130	53.39	1.49	30
Surr: Toluene-d8	50.49	0	50	0	101	70 - 130	49.24	2.51	30

The following samples were analyzed in this batch: HS18061236-08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: R318715		Instrument: VOA5		Method: SW8260					
MBLK	Sample ID: VBLKS1-062718	Units: ug/Kg		Analysis Date: 27-Jun-2018 03:57					
Client ID:	Run ID: VOA5_318715	SeqNo: 4626408		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
m,p-Xylene	U	10							
o-Xylene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	44.89	0	50	0	89.8	76 - 125			
Surr: 4-Bromofluorobenzene	49.88	0	50	0	99.8	83 - 120			
Surr: Dibromofluoromethane	46.18	0	50	0	92.4	80 - 119			
Surr: Toluene-d8	51.85	0	50	0	104	81 - 118			

LCS	Sample ID: VLCSS1-062718	Units: ug/Kg		Analysis Date: 27-Jun-2018 03:10					
Client ID:	Run ID: VOA5_318715	SeqNo: 4626407		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	47.64	5.0	50	0	95.3	75 - 124			
Ethylbenzene	50.23	5.0	50	0	100	70 - 123			
m,p-Xylene	99.64	10	100	0	99.6	77 - 125			
o-Xylene	50.53	5.0	50	0	101	78 - 122			
Toluene	49.62	5.0	50	0	99.2	76 - 122			
Xylenes, Total	150.2	5.0	150	0	100	77 - 128			
Surr: 1,2-Dichloroethane-d4	50.41	0	50	0	101	76 - 125			
Surr: 4-Bromofluorobenzene	51.5	0	50	0	103	83 - 120			
Surr: Dibromofluoromethane	47.31	0	50	0	94.6	80 - 119			
Surr: Toluene-d8	51.13	0	50	0	102	81 - 118			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: R318715		Instrument: VOA5		Method: SW8260						
MS		Sample ID: HS18061073-07MS		Units: ug/Kg		Analysis Date: 27-Jun-2018 07:51				
Client ID:		Run ID: VOA5_318715		SeqNo: 4626421		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.52	4.9	49	0	99.0	70 - 130				
Ethylbenzene	52.21	4.9	49	0	107	70 - 130				
m,p-Xylene	105.2	9.8	98	0	107	70 - 130				
o-Xylene	52.16	4.9	49	0	106	70 - 130				
Toluene	51.16	4.9	49	0	104	70 - 130				
Xylenes, Total	157.3	4.9	147	0	107	70 - 130				
Surr: 1,2-Dichloroethane-d4	47.13	0	49	0	96.2	70 - 126				
Surr: 4-Bromofluorobenzene	50.34	0	49	0	103	70 - 130				
Surr: Dibromofluoromethane	46.45	0	49	0	94.8	70 - 130				
Surr: Toluene-d8	49.17	0	49	0	100	70 - 130				

MSD		Sample ID: HS18061073-07MSD		Units: ug/Kg		Analysis Date: 27-Jun-2018 08:14				
Client ID:		Run ID: VOA5_318715		SeqNo: 4626422		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.93	4.9	49	0	108	70 - 130	48.52	8.69	30	
Ethylbenzene	57.88	4.9	49	0	118	70 - 130	52.21	10.3	30	
m,p-Xylene	115.5	9.8	98	0	118	70 - 130	105.2	9.38	30	
o-Xylene	57.69	4.9	49	0	118	70 - 130	52.16	10.1	30	
Toluene	56.14	4.9	49	0	115	70 - 130	51.16	9.28	30	
Xylenes, Total	173.2	4.9	147	0	118	70 - 130	157.3	9.61	30	
Surr: 1,2-Dichloroethane-d4	49.11	0	49	0	100	70 - 126	47.13	4.11	30	
Surr: 4-Bromofluorobenzene	51.6	0	49	0	105	70 - 130	50.34	2.48	30	
Surr: Dibromofluoromethane	49.7	0	49	0	101	70 - 130	46.45	6.75	30	
Surr: Toluene-d8	51.21	0	49	0	105	70 - 130	49.17	4.06	30	

The following samples were analyzed in this batch: HS18061236-07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: R318805		Instrument: VOA5		Method: SW8260					
MBLK	Sample ID: VBLKS1-062718	Units: ug/Kg		Analysis Date: 27-Jun-2018 15:26					
Client ID:	Run ID: VOA5_318805	SeqNo: 4628274		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
m,p-Xylene	U	10							
o-Xylene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	46.38	0	50	0	92.8	76 - 125			
Surr: 4-Bromofluorobenzene	49.11	0	50	0	98.2	83 - 120			
Surr: Dibromofluoromethane	46.99	0	50	0	94.0	80 - 119			
Surr: Toluene-d8	50.19	0	50	0	100	81 - 118			

LCS	Sample ID: VLCSS1-062718	Units: ug/Kg		Analysis Date: 27-Jun-2018 14:38					
Client ID:	Run ID: VOA5_318805	SeqNo: 4628273		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	51.77	5.0	50	0	104	75 - 124			
Ethylbenzene	54.34	5.0	50	0	109	70 - 123			
m,p-Xylene	109.1	10	100	0	109	77 - 125			
o-Xylene	54.42	5.0	50	0	109	78 - 122			
Toluene	52.93	5.0	50	0	106	76 - 122			
Xylenes, Total	163.6	5.0	150	0	109	77 - 128			
Surr: 1,2-Dichloroethane-d4	50.9	0	50	0	102	76 - 125			
Surr: 4-Bromofluorobenzene	51.66	0	50	0	103	83 - 120			
Surr: Dibromofluoromethane	49.43	0	50	0	98.9	80 - 119			
Surr: Toluene-d8	50.63	0	50	0	101	81 - 118			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: R318805		Instrument: VOA5		Method: SW8260					
MS		Sample ID: HS18061236-02MS		Units: ug/Kg		Analysis Date: 27-Jun-2018 17:50			
Client ID: S1 @ 3'		Run ID: VOA5_318805		SeqNo: 4628280		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	41.86	5.0	50	0	83.7	70 - 130			
Ethylbenzene	42.6	5.0	50	0	85.2	70 - 130			
m,p-Xylene	85.69	10	100	0	85.7	70 - 130			
o-Xylene	44.03	5.0	50	0	88.1	70 - 130			
Toluene	43.26	5.0	50	0	86.5	70 - 130			
Xylenes, Total	129.7	5.0	150	0	86.5	70 - 130			
Surr: 1,2-Dichloroethane-d4	50.99	0	50	0	102	70 - 126			
Surr: 4-Bromofluorobenzene	51.82	0	50	0	104	70 - 130			
Surr: Dibromofluoromethane	48.4	0	50	0	96.8	70 - 130			
Surr: Toluene-d8	51.03	0	50	0	102	70 - 130			

MSD		Sample ID: HS18061236-02MSD		Units: ug/Kg		Analysis Date: 27-Jun-2018 18:14			
Client ID: S1 @ 3'		Run ID: VOA5_318805		SeqNo: 4628281		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	45.77	5.0	50.5	0	90.6	70 - 130	41.86	8.92	30
Ethylbenzene	48.59	5.0	50.5	0	96.2	70 - 130	42.6	13.1	30
m,p-Xylene	96.93	10	101	0	96.0	70 - 130	85.69	12.3	30
o-Xylene	49.21	5.0	50.5	0	97.4	70 - 130	44.03	11.1	30
Toluene	48.37	5.0	50.5	0	95.8	70 - 130	43.26	11.2	30
Xylenes, Total	146.1	5.0	151.5	0	96.5	70 - 130	129.7	11.9	30
Surr: 1,2-Dichloroethane-d4	49.8	0	50.5	0	98.6	70 - 126	50.99	2.38	30
Surr: 4-Bromofluorobenzene	52.8	0	50.5	0	105	70 - 130	51.82	1.88	30
Surr: Dibromofluoromethane	49.9	0	50.5	0	98.8	70 - 130	48.4	3.06	30
Surr: Toluene-d8	52.17	0	50.5	0	103	70 - 130	51.03	2.19	30

The following samples were analyzed in this batch: HS18061236-02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: R318806		Instrument: VOA5		Method: SW8260					
MBLK	Sample ID: VBLKS1-062818	Units: ug/Kg		Analysis Date: 28-Jun-2018 04:07					
Client ID:	Run ID: VOA5_318806	SeqNo: 4628302		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
m,p-Xylene	U	10							
o-Xylene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	49.35	0	50	0	98.7	76 - 125			
Surr: 4-Bromofluorobenzene	50.27	0	50	0	101	83 - 120			
Surr: Dibromofluoromethane	49.09	0	50	0	98.2	80 - 119			
Surr: Toluene-d8	50.7	0	50	0	101	81 - 118			

LCS	Sample ID: VLCSS1-062818	Units: ug/Kg		Analysis Date: 28-Jun-2018 03:20					
Client ID:	Run ID: VOA5_318806	SeqNo: 4628301		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	53.15	5.0	50	0	106	75 - 124			
Ethylbenzene	56.34	5.0	50	0	113	70 - 123			
m,p-Xylene	115	10	100	0	115	77 - 125			
o-Xylene	58.18	5.0	50	0	116	78 - 122			
Toluene	56.14	5.0	50	0	112	76 - 122			
Xylenes, Total	173.1	5.0	150	0	115	77 - 128			
Surr: 1,2-Dichloroethane-d4	48.92	0	50	0	97.8	76 - 125			
Surr: 4-Bromofluorobenzene	50.4	0	50	0	101	83 - 120			
Surr: Dibromofluoromethane	46.75	0	50	0	93.5	80 - 119			
Surr: Toluene-d8	50.31	0	50	0	101	81 - 118			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: R318806		Instrument: VOA5		Method: SW8260					
MS		Sample ID: HS18061236-10MS		Units: ug/Kg		Analysis Date: 28-Jun-2018 08:52			
Client ID: S5 @ 3'		Run ID: VOA5_318806		SeqNo: 4628442		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	40.55	4.9	49	0	82.8	70 - 130			
Ethylbenzene	43.57	4.9	49	0	88.9	70 - 130			
m,p-Xylene	87.69	9.8	98	0	89.5	70 - 130			
o-Xylene	44.95	4.9	49	0	91.7	70 - 130			
Toluene	42.99	4.9	49	0	87.7	70 - 130			
Xylenes, Total	132.6	4.9	147	0	90.2	70 - 130			
Surr: 1,2-Dichloroethane-d4	49.36	0	49	0	101	70 - 126			
Surr: 4-Bromofluorobenzene	50.79	0	49	0	104	70 - 130			
Surr: Dibromofluoromethane	49.01	0	49	0	100	70 - 130			
Surr: Toluene-d8	49.62	0	49	0	101	70 - 130			

MSD		Sample ID: HS18061236-10MSD		Units: ug/Kg		Analysis Date: 28-Jun-2018 09:16			
Client ID: S5 @ 3'		Run ID: VOA5_318806		SeqNo: 4628443		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	43.95	4.9	49	0	89.7	70 - 130	40.55	8.05	30
Ethylbenzene	47.6	4.9	49	0	97.1	70 - 130	43.57	8.86	30
m,p-Xylene	95.22	9.8	98	0	97.2	70 - 130	87.69	8.23	30
o-Xylene	48.58	4.9	49	0	99.1	70 - 130	44.95	7.78	30
Toluene	46.05	4.9	49	0	94.0	70 - 130	42.99	6.87	30
Xylenes, Total	143.8	4.9	147	0	97.8	70 - 130	132.6	8.07	30
Surr: 1,2-Dichloroethane-d4	50.49	0	49	0	103	70 - 126	49.36	2.26	30
Surr: 4-Bromofluorobenzene	50.8	0	49	0	104	70 - 130	50.79	0.00924	30
Surr: Dibromofluoromethane	50.04	0	49	0	102	70 - 130	49.01	2.08	30
Surr: Toluene-d8	49.94	0	49	0	102	70 - 130	49.62	0.642	30

The following samples were analyzed in this batch:				HS18061236-01	HS18061236-03	HS18061236-04	HS18061236-05
				HS18061236-06	HS18061236-09	HS18061236-10	HS18061236-11
				HS18061236-12	HS18061236-13	HS18061236-14	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: 129848		Instrument: ICS3K2		Method: E300						
MBLK	Sample ID: MBLK-129848	Units: mg/Kg			Analysis Date: 28-Jun-2018 00:41					
Client ID:		Run ID: ICS3K2_318857	SeqNo: 4629319		PrepDate: 26-Jun-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit Qual		
Chloride	U	5.00								
LCS	Sample ID: LCS-129848	Units: mg/Kg			Analysis Date: 28-Jun-2018 01:02					
Client ID:		Run ID: ICS3K2_318857	SeqNo: 4629320		PrepDate: 26-Jun-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit Qual		
Chloride	205.5	5.00	200	0	103	90 - 110				
LCSD	Sample ID: LCSD-129848	Units: mg/Kg			Analysis Date: 28-Jun-2018 01:24					
Client ID:		Run ID: ICS3K2_318857	SeqNo: 4629321		PrepDate: 26-Jun-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit Qual		
Chloride	204.9	5.00	200	0	102	90 - 110	205.5	0.273	20	
MS	Sample ID: HS18061236-07MS	Units: mg/Kg			Analysis Date: 28-Jun-2018 10:05					
Client ID: S4 @ 3'		Run ID: ICS3K2_318857	SeqNo: 4629345		PrepDate: 26-Jun-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit Qual		
Chloride	344.3	4.98	99.56	237.4	107	75 - 125				
MS	Sample ID: HS18061231-04MS	Units: mg/Kg			Analysis Date: 28-Jun-2018 03:13					
Client ID:		Run ID: ICS3K2_318857	SeqNo: 4629326		PrepDate: 26-Jun-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit Qual		
Chloride	115.6	4.98	99.55	18.67	97.4	75 - 125				
MSD	Sample ID: HS18061236-07MSD	Units: mg/Kg			Analysis Date: 28-Jun-2018 10:27					
Client ID: S4 @ 3'		Run ID: ICS3K2_318857	SeqNo: 4629346		PrepDate: 26-Jun-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit Qual		
Chloride	354.3	4.98	99.59	237.4	117	75 - 125	344.3	2.86	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: 129848		Instrument: ICS3K2		Method: E300	
MSD	Sample ID: HS18061231-04MSD	Units: mg/Kg		Analysis Date: 28-Jun-2018 03:34	
Client ID:	Run ID: ICS3K2_318857	SeqNo: 4629327		PrepDate: 26-Jun-2018	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	119.2	4.96	99.24	18.67 101	75 - 125 115.6 3.05 20

The following samples were analyzed in this batch:

HS18061236-01	HS18061236-02	HS18061236-03	HS18061236-04
HS18061236-05	HS18061236-06	HS18061236-07	HS18061236-08
HS18061236-09	HS18061236-10	HS18061236-11	HS18061236-12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: 129923		Instrument: ICS3K2		Method: E300						
MBLK	Sample ID: MBLK-129923	Units: mg/Kg		Analysis Date: 29-Jun-2018 03:37						
Client ID:	Run ID: ICS3K2_318955	SeqNo: 4631351		PrepDate: 28-Jun-2018		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	5.00								
LCS	Sample ID: LCS-129923	Units: mg/Kg		Analysis Date: 29-Jun-2018 03:59						
Client ID:	Run ID: ICS3K2_318955	SeqNo: 4631352		PrepDate: 28-Jun-2018		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	204.6	5.00	200	0	102	90 - 110				
LCSD	Sample ID: LCSD-129923	Units: mg/Kg		Analysis Date: 29-Jun-2018 04:20						
Client ID:	Run ID: ICS3K2_318955	SeqNo: 4631353		PrepDate: 28-Jun-2018		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	204.9	5.00	200	0	102	90 - 110	204.6	0.161	20	
MS	Sample ID: HS18061237-15MS	Units: mg/Kg		Analysis Date: 29-Jun-2018 13:23						
Client ID:	Run ID: ICS3K2_318955	SeqNo: 4631377		PrepDate: 28-Jun-2018		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	102.5	4.95	98.97	5.637	97.8	75 - 125				
MS	Sample ID: HS18061237-06MS	Units: mg/Kg		Analysis Date: 29-Jun-2018 08:19						
Client ID:	Run ID: ICS3K2_318955	SeqNo: 4631364		PrepDate: 28-Jun-2018		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	99.41	4.95	98.98	3.606	96.8	75 - 125				
MSD	Sample ID: HS18061237-15MSD	Units: mg/Kg		Analysis Date: 29-Jun-2018 13:45						
Client ID:	Run ID: ICS3K2_318955	SeqNo: 4631378		PrepDate: 28-Jun-2018		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104.1	5.00	99.96	5.637	98.5	75 - 125	102.5	1.58	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

QC BATCH REPORT

Batch ID: 129923		Instrument: ICS3K2		Method: E300						
MSD	Sample ID: HS18061237-06MSD	Units: mg/Kg			Analysis Date: 29-Jun-2018 08:41					
Client ID:	Run ID: ICS3K2_318955		SeqNo: 4631365		PrepDate: 28-Jun-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	98.66	4.94	98.73	3.606	96.3	75 - 125	99.41	0.758	20	
The following samples were analyzed in this batch:										
HS18061236-13		HS18061236-14								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061236

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919 2016-2018	31-Jul-2018
Oklahoma	2017-088	31-Aug-2018
North Carolina	624-2018	31-Dec-2018
Arkansas	88-0356	27-Mar-2019
Kansas	E-10352 2017-218	31-Jul-2018
Texas	T10470231-18-21	30-Apr-2019
North Dakota	R193 2018-2019	30-Apr-2019
Illinois	004438	29-Jun-2019
Louisiana	03087	30-Jun-2019
Dept of Defense	L2231 Rev 3-30-2018	22-Dec-2018
Kentucky	123043 - 2018	30-Apr-2019

Sample Receipt Checklist

Client Name: LBG Addison Texas
 Work Order: HS18061236

Date/Time Received: **22-Jun-2018 08:30**
 Received by: **RPG**

Checklist completed by: Pablo Martinez 23-Jun-2018
 eSignature Date

Reviewed by: Bernadette A. Fini 25-Jun-2018
 eSignature Date

Matrices: **SOIL**

Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☒
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):	0.7C/0.2C UC/C	IR # 11
Cooler(s)/Kit(s):	43625	
Date/Time sample(s) sent to storage:	6/23/2018 14:00	
Water - VOA vials have zero headspace?	Yes ☐	No ☐ No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐ N/A ☒
pH adjusted?	Yes ☐	No ☐ N/A ☒
pH adjusted by:		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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Chain of Custody Form

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COC ID: 181549

HS18061236

WSP Parsons Brinckerhoff
Percussion-Foster Tank Battery



Customer Information				Project Information				ALS Project Manager:												
Purchase Order	31401117.000			Project Name	Percussion-Foster Tank Battery			A	8260_S (VOC (8260) BTEX)											
Work Order				Project Number				B	8015_GRO_S (8015 GRO)											
Company Name	WSP Parsons Brinckerhoff			Bill To Company	WSP Parsons Brinckerhoff			C	8015M_S_LL (8015 DRO/ORO)											
Send Report To	Matthew Boyle			Invoice Attn	Accounts Payable			D	300_S (Chloride)											
Address	15305 N. Dallas Parkway			Address	15305 N. Dallas Parkway			E												
	Suite 300				Suite 300			F												
City/State/Zip	Addison, TX 75001			City/State/Zip	Addison TX 75001			G												
Phone	(972) -71-5-20			Phone	(972) -71-5-20			H												
Fax				Fax				I												
e-Mail Address	Matthew.Boyle@WSP.com			e-Mail Address	Accountspayable@WSPGroup.com			J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	51 @ 2'	6/21	5:55	ICE	ICE	2	✓	✓	✓	✓							
2	51 @ 3'	6/21	6:15	ICE	ICE	2	✓	✓	✓	✓							
3	52 @ 2'	6/21	6:24	ICE	ICE	2	✓	✓	✓	✓							
4	52 @ 3'	6/21	6:35	ICE	ICE	2	✓	✓	✓	✓							
5	52 @ 4'	6/21	6:46	ICE	ICE	2	✓	✓	✓	✓							
6	54 @ 2'	6/21	6:54	ICE	ICE	2	✓	✓	✓	✓							
7	54 @ 3'	6/21	7:00	ICE	ICE	2	✓	✓	✓	✓							
8	54 @ 4'	6/21	7:07	ICE	ICE	2	✓	✓	✓	✓							
9	55 @ 2'	6/21	7:15	ICE	ICE	2	✓	✓	✓	✓							
10	55 @ 3'	6/21	7:23	ICE	ICE	2	✓	✓	✓	✓							

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
JEFF SAMMONS				☒ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour			
Relinquished by: JEFF SAMMONS		Date: 6/21/18	Time: 12:30 PM	Received by: R. G. G.		Notes: LBG Percussion-Foster Tank Battery	
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID: 43625	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Cooler Temp: 0.7c	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						QC Package: (Check One Box Below)	
						☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW648/CLP ☐ Other	

- ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

Page of

COC ID: **181548**

HS18061236

WSP Parsons Brinckerhoff
Percussion-Foster Tank Battery



Customer Information				Project Information				ALS Project Manager:											
Purchase Order	31401117.000			Project Name	Percussion-Foster Tank Battery			A	8260_S (VOC (8260) BTEX)										
Work Order				Project Number				B	8015_GRO_S (8015 GRO)										
Company Name	WSP Parsons Brinckerhoff			Bill To Company	WSP Parsons Brinckerhoff			C	8015M_S_LL (8015 DRO/ORO)										
Send Report To	Matthew Boyle			Invoice Attn	Accounts Payable			D	300_S (Chloride)										
Address	15305 N. Dallas Parkway Suite 300			Address	15305 N. Dallas Parkway Suite 300			E											
City/State/Zip	Addison, TX 75001			City/State/Zip	Addison TX 75001			F											
Phone	(972)-71-5-20			Phone	(972)-71-5-20			G											
Fax				Fax				H											
e-Mail Address	Matthew.Boyle@WSP.com			e-Mail Address	Accountspayable@WSPGroup.com			I											
								J											

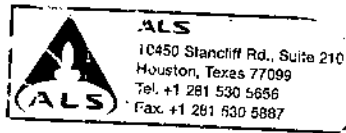
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	550 @ 4'	6/21	7:30	IE SA	IE	2	✓	✓	✓	✓							
2	570 @ 2'	6/21	7:43	IE SA	IE	2	✓	✓	✓	✓							
3	570 @ 3'	6/21	7:49	IE SA	IE	2	✓	✓	✓	✓							
4	570 @ 4'	6/21	7:57	IE SA	IE	2	✓	✓	✓	✓							
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:	
JEFF SAMMONS <i>[Signature]</i>				☒ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour					
Relinquished by:		Date:		Time:		Received by:		Notes:	
JEFF SAMMONS		6/21/18		12:30 PM		R. C. C. 6/21/18 08-30		LBG Percussion-Foster Tank Battery	
Relinquished by:		Date:		Time:		Received by (Laboratory):		Cooler ID	
								43625	
Logged by (Laboratory):		Date:		Time:		Checked by (Laboratory):		Cooler Temp.	
								0-7C	
Preservative Key:		1-HCl		2-HNO ₃		3-H ₂ SO ₄		4-NaOH	
		5-Na ₂ S ₂ O ₃		6-NaHSO ₃		7-Other		8-4°C	
								9-5035	

QC Package: (Check One Box Below)		TRRP Checklist	
☒ Level II Std QC	☐ TRRP Level I		
☐ Level III Std QC/Raw Data	☐ TRRP Level II		
☐ Level IV SW846/CLP	☐ TRRP Level III		
☐ Other	☐ TRRP Level IV		

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SEAL	Seal Broken By: PM
12:30 PM	Date: 62318

43625

CUSTODY SEAL		Seal Broken By: PM
Date: 6/23/18	Time: 12:30 PM	Date: 62318
Name: Sammie N		
Company: L-3		

TRK# 4380 9530 1065
0221
FedEx 43625
TRK# 4380 9530 1065
0221
AB SGRA
77099
TX-US IAH

RETURNS MON-SAT
PRIORITY OVERNIGHT
FRI - 22 JUN 10:30A
PRIORITY OVERNIGHT





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June 29, 2018

Matthew Boyle
WSP Parsons Brinckerhoff
15305 N. Dallas Parkway
Suite 300
Addison, TX 75001

Work Order: **HS18061237**

Laboratory Results for: **Percussion-Foster Tank Battery**

Dear Matthew,

ALS Environmental received 15 sample(s) on Jun 22, 2018 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER
Bernadette A. Fini
Project Manager

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
Work Order: HS18061237

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS18061237-01	S9 @ 2'	Soil		21-Jun-2018 08:08	22-Jun-2018 08:30	☐
HS18061237-02	S9 @ 3'	Soil		21-Jun-2018 08:19	22-Jun-2018 08:30	☐
HS18061237-03	S9 @ 4'	Soil		21-Jun-2018 08:26	22-Jun-2018 08:30	☐
HS18061237-04	S10 @ 2'	Soil		21-Jun-2018 08:38	22-Jun-2018 08:30	☐
HS18061237-05	S10 @ 3'	Soil		21-Jun-2018 08:45	22-Jun-2018 08:30	☐
HS18061237-06	S10 @ 4'	Soil		21-Jun-2018 08:53	22-Jun-2018 08:30	☐
HS18061237-07	S8 @ 2'	Soil		21-Jun-2018 09:02	22-Jun-2018 08:30	☐
HS18061237-08	S8 @ 3'	Soil		21-Jun-2018 09:10	22-Jun-2018 08:30	☐
HS18061237-09	S8 @ 4'	Soil		21-Jun-2018 09:17	22-Jun-2018 08:30	☐
HS18061237-10	S6 @ 2'	Soil		21-Jun-2018 09:30	22-Jun-2018 08:30	☐
HS18061237-11	S6 @ 3'	Soil		21-Jun-2018 09:35	22-Jun-2018 08:30	☐
HS18061237-12	S6 @ 4'	Soil		21-Jun-2018 09:41	22-Jun-2018 08:30	☐
HS18061237-13	S3 @ 2'	Soil		21-Jun-2018 09:51	22-Jun-2018 08:30	☐
HS18061237-14	S3 @ 3'	Soil		21-Jun-2018 10:03	22-Jun-2018 08:30	☐
HS18061237-15	S3 @ 4'	Soil		21-Jun-2018 10:12	22-Jun-2018 08:30	☐

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
Work Order: HS18061237

CASE NARRATIVE

GC Semivolatiles by Method SW8015M**Batch ID: 129803****Sample ID: S6 @ 4' (HS18061237-12)**

- Surrogate recoveries were outside of the control limits due to matrix interference.

Sample ID: S8 @ 2' (HS18061237-07)

- Surrogate recoveries were outside of the control limits due to matrix interference.

Sample ID: S8 @ 4' (HS18061237-09)

- Surrogate recoveries were outside of the control limits due to matrix interference.

GC Volatiles by Method SW8015**Batch ID: R318880****Sample ID: S9 @ 2' (HS18061237-01MS)**

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

Sample ID: S9 @ 2' (HS18061237-01MSD)

- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.

GCMS Volatiles by Method SW8260**Batch ID: R318806,R318905**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300**Batch ID: 129923**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S9 @ 2'
 Collection Date: 21-Jun-2018 08:08

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00047	0.0047	mg/Kg	1	28-Jun-2018 10:50
Ethylbenzene	U		0.00066	0.0047	mg/Kg	1	28-Jun-2018 10:50
m,p-Xylene	U		0.0015	0.0094	mg/Kg	1	28-Jun-2018 10:50
o-Xylene	U		0.00094	0.0047	mg/Kg	1	28-Jun-2018 10:50
Toluene	U		0.00056	0.0047	mg/Kg	1	28-Jun-2018 10:50
Xylenes, Total	U		0.00094	0.0047	mg/Kg	1	28-Jun-2018 10:50
Surr: 1,2-Dichloroethane-d4	105			70-126	%REC	1	28-Jun-2018 10:50
Surr: 4-Bromofluorobenzene	104			70-130	%REC	1	28-Jun-2018 10:50
Surr: Dibromofluoromethane	95.8			70-130	%REC	1	28-Jun-2018 10:50
Surr: Toluene-d8	102			70-130	%REC	1	28-Jun-2018 10:50
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	28-Jun-2018 12:24
Surr: 4-Bromofluorobenzene	79.3			70-123	%REC	1	28-Jun-2018 12:24
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	15		0.50	1.7	mg/Kg	1	26-Jun-2018 19:05
TPH (Motor Oil Range)	16	n	0.50	3.4	mg/Kg	1	26-Jun-2018 19:05
Surr: 2-Fluorobiphenyl	70.9			60-129	%REC	1	26-Jun-2018 19:05
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	32.0		1.97	4.93	mg/Kg	1	29-Jun-2018 05:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S9 @ 3'
 Collection Date: 21-Jun-2018 08:19

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-02
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00048	0.0048	mg/Kg	1	28-Jun-2018 11:14
Ethylbenzene	U		0.00068	0.0048	mg/Kg	1	28-Jun-2018 11:14
m,p-Xylene	U		0.0016	0.0097	mg/Kg	1	28-Jun-2018 11:14
o-Xylene	U		0.00097	0.0048	mg/Kg	1	28-Jun-2018 11:14
Toluene	U		0.00058	0.0048	mg/Kg	1	28-Jun-2018 11:14
Xylenes, Total	U		0.00097	0.0048	mg/Kg	1	28-Jun-2018 11:14
Surr: 1,2-Dichloroethane-d4	95.9			70-126	%REC	1	28-Jun-2018 11:14
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	28-Jun-2018 11:14
Surr: Dibromofluoromethane	93.4			70-130	%REC	1	28-Jun-2018 11:14
Surr: Toluene-d8	102			70-130	%REC	1	28-Jun-2018 11:14
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	28-Jun-2018 13:29
Surr: 4-Bromofluorobenzene	77.7			70-123	%REC	1	28-Jun-2018 13:29
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	8.8		0.50	1.7	mg/Kg	1	26-Jun-2018 19:30
TPH (Motor Oil Range)	7.9	n	0.50	3.4	mg/Kg	1	26-Jun-2018 19:30
Surr: 2-Fluorobiphenyl	72.9			60-129	%REC	1	26-Jun-2018 19:30
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	64.7		1.98	4.95	mg/Kg	1	29-Jun-2018 05:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S9 @ 4'
 Collection Date: 21-Jun-2018 08:26

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-03
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00049	0.0049	mg/Kg	1	28-Jun-2018 15:43
Ethylbenzene	U		0.00069	0.0049	mg/Kg	1	28-Jun-2018 15:43
m,p-Xylene	U		0.0016	0.0098	mg/Kg	1	28-Jun-2018 15:43
o-Xylene	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 15:43
Toluene	U		0.00059	0.0049	mg/Kg	1	28-Jun-2018 15:43
Xylenes, Total	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 15:43
Surr: 1,2-Dichloroethane-d4	101			70-126	%REC	1	28-Jun-2018 15:43
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	28-Jun-2018 15:43
Surr: Dibromofluoromethane	94.2			70-130	%REC	1	28-Jun-2018 15:43
Surr: Toluene-d8	102			70-130	%REC	1	28-Jun-2018 15:43
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	28-Jun-2018 13:46
Surr: 4-Bromofluorobenzene	77.3			70-123	%REC	1	28-Jun-2018 13:46
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	5.0		0.50	1.7	mg/Kg	1	26-Jun-2018 19:54
TPH (Motor Oil Range)	6.4	n	0.50	3.4	mg/Kg	1	26-Jun-2018 19:54
Surr: 2-Fluorobiphenyl	65.4			60-129	%REC	1	26-Jun-2018 19:54
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	13.5		1.98	4.96	mg/Kg	1	29-Jun-2018 06:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S10 @ 2'
 Collection Date: 21-Jun-2018 08:38

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-04
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00048	0.0048	mg/Kg	1	28-Jun-2018 16:07
Ethylbenzene	U		0.00066	0.0048	mg/Kg	1	28-Jun-2018 16:07
m,p-Xylene	U		0.0015	0.0095	mg/Kg	1	28-Jun-2018 16:07
o-Xylene	U		0.00095	0.0048	mg/Kg	1	28-Jun-2018 16:07
Toluene	U		0.00057	0.0048	mg/Kg	1	28-Jun-2018 16:07
Xylenes, Total	U		0.00095	0.0048	mg/Kg	1	28-Jun-2018 16:07
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>102</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 16:07</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>103</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 16:07</i>
<i>Surr: Dibromofluoromethane</i>	<i>97.0</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 16:07</i>
<i>Surr: Toluene-d8</i>	<i>103</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 16:07</i>
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	28-Jun-2018 14:02
<i>Surr: 4-Bromofluorobenzene</i>	<i>71.5</i>			<i>70-123</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 14:02</i>
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	U		0.50	1.7	mg/Kg	1	26-Jun-2018 20:18
TPH (Motor Oil Range)	4.7	n	0.50	3.4	mg/Kg	1	26-Jun-2018 20:18
<i>Surr: 2-Fluorobiphenyl</i>	<i>71.0</i>			<i>60-129</i>	<i>%REC</i>	<i>1</i>	<i>26-Jun-2018 20:18</i>
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	3.78	J	1.99	4.98	mg/Kg	1	29-Jun-2018 06:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S10 @ 3'
 Collection Date: 21-Jun-2018 08:45

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-05
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00049	0.0049	mg/Kg	1	28-Jun-2018 17:46
Ethylbenzene	U		0.00069	0.0049	mg/Kg	1	28-Jun-2018 17:46
m,p-Xylene	U		0.0016	0.0098	mg/Kg	1	28-Jun-2018 17:46
o-Xylene	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 17:46
Toluene	U		0.00059	0.0049	mg/Kg	1	28-Jun-2018 17:46
Xylenes, Total	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 17:46
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>108</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 17:46</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>104</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 17:46</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 17:46</i>
<i>Surr: Toluene-d8</i>	<i>103</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 17:46</i>
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	28-Jun-2018 14:18
<i>Surr: 4-Bromofluorobenzene</i>	<i>70.3</i>			<i>70-123</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 14:18</i>
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	0.74	J	0.50	1.7	mg/Kg	1	26-Jun-2018 20:43
TPH (Motor Oil Range)	5.2	n	0.50	3.4	mg/Kg	1	26-Jun-2018 20:43
<i>Surr: 2-Fluorobiphenyl</i>	<i>73.2</i>			<i>60-129</i>	<i>%REC</i>	<i>1</i>	<i>26-Jun-2018 20:43</i>
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	3.89	J	2.00	4.99	mg/Kg	1	29-Jun-2018 06:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S10 @ 4'
 Collection Date: 21-Jun-2018 08:53

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-06
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 18:11
Ethylbenzene	U		0.00071	0.0050	mg/Kg	1	28-Jun-2018 18:11
m,p-Xylene	U		0.0016	0.010	mg/Kg	1	28-Jun-2018 18:11
o-Xylene	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 18:11
Toluene	U		0.00061	0.0050	mg/Kg	1	28-Jun-2018 18:11
Xylenes, Total	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 18:11
Surr: 1,2-Dichloroethane-d4	103			70-126	%REC	1	28-Jun-2018 18:11
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	28-Jun-2018 18:11
Surr: Dibromofluoromethane	101			70-130	%REC	1	28-Jun-2018 18:11
Surr: Toluene-d8	101			70-130	%REC	1	28-Jun-2018 18:11
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	0.031	J	0.010	0.050	mg/Kg	1	28-Jun-2018 15:07
Surr: 4-Bromofluorobenzene	71.6			70-123	%REC	1	28-Jun-2018 15:07
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	U		0.50	1.7	mg/Kg	1	26-Jun-2018 17:53
TPH (Motor Oil Range)	4.2	n	0.50	3.4	mg/Kg	1	26-Jun-2018 17:53
Surr: 2-Fluorobiphenyl	60.7			60-129	%REC	1	26-Jun-2018 17:53
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	3.61	J	1.98	4.94	mg/Kg	1	29-Jun-2018 07:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S8 @ 2'
 Collection Date: 21-Jun-2018 09:02

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-07
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 18:35
Ethylbenzene	U		0.00071	0.0050	mg/Kg	1	28-Jun-2018 18:35
m,p-Xylene	U		0.0016	0.010	mg/Kg	1	28-Jun-2018 18:35
o-Xylene	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 18:35
Toluene	U		0.00061	0.0050	mg/Kg	1	28-Jun-2018 18:35
Xylenes, Total	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 18:35
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>97.1</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 18:35</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 18:35</i>
<i>Surr: Dibromofluoromethane</i>	<i>91.1</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 18:35</i>
<i>Surr: Toluene-d8</i>	<i>100.0</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 18:35</i>
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	28-Jun-2018 16:29
<i>Surr: 4-Bromofluorobenzene</i>	<i>77.3</i>			<i>70-123</i>	<i>%REC</i>	<i>1</i>	<i>28-Jun-2018 16:29</i>
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	U		5.0	17	mg/Kg	10	28-Jun-2018 22:12
TPH (Motor Oil Range)	220	n	5.0	34	mg/Kg	10	28-Jun-2018 22:12
<i>Surr: 2-Fluorobiphenyl</i>	<i>59.6</i>	S		<i>60-129</i>	<i>%REC</i>	<i>10</i>	<i>28-Jun-2018 22:12</i>
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	5.55		1.98	4.94	mg/Kg	1	29-Jun-2018 09:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S8 @ 3'
 Collection Date: 21-Jun-2018 09:10

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-08
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00048	0.0048	mg/Kg	1	28-Jun-2018 18:59
Ethylbenzene	U		0.00066	0.0048	mg/Kg	1	28-Jun-2018 18:59
m,p-Xylene	U		0.0015	0.0095	mg/Kg	1	28-Jun-2018 18:59
o-Xylene	U		0.00095	0.0048	mg/Kg	1	28-Jun-2018 18:59
Toluene	U		0.00057	0.0048	mg/Kg	1	28-Jun-2018 18:59
Xylenes, Total	U		0.00095	0.0048	mg/Kg	1	28-Jun-2018 18:59
Surr: 1,2-Dichloroethane-d4	94.9			70-126	%REC	1	28-Jun-2018 18:59
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	28-Jun-2018 18:59
Surr: Dibromofluoromethane	90.6			70-130	%REC	1	28-Jun-2018 18:59
Surr: Toluene-d8	102			70-130	%REC	1	28-Jun-2018 18:59
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	28-Jun-2018 16:46
Surr: 4-Bromofluorobenzene	73.8			70-123	%REC	1	28-Jun-2018 16:46
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	0.79	J	0.50	1.7	mg/Kg	1	26-Jun-2018 21:31
TPH (Motor Oil Range)	6.0	n	0.50	3.4	mg/Kg	1	26-Jun-2018 21:31
Surr: 2-Fluorobiphenyl	63.3			60-129	%REC	1	26-Jun-2018 21:31
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	7.37		1.98	4.96	mg/Kg	1	29-Jun-2018 09:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S8 @ 4'
 Collection Date: 21-Jun-2018 09:17

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-09
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00049	0.0049	mg/Kg	1	28-Jun-2018 19:23
Ethylbenzene	U		0.00069	0.0049	mg/Kg	1	28-Jun-2018 19:23
m,p-Xylene	U		0.0016	0.0098	mg/Kg	1	28-Jun-2018 19:23
o-Xylene	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 19:23
Toluene	U		0.00059	0.0049	mg/Kg	1	28-Jun-2018 19:23
Xylenes, Total	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 19:23
Surr: 1,2-Dichloroethane-d4	99.6			70-126	%REC	1	28-Jun-2018 19:23
Surr: 4-Bromofluorobenzene	98.7			70-130	%REC	1	28-Jun-2018 19:23
Surr: Dibromofluoromethane	91.3			70-130	%REC	1	28-Jun-2018 19:23
Surr: Toluene-d8	99.6			70-130	%REC	1	28-Jun-2018 19:23
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	0.032	J	0.010	0.050	mg/Kg	1	28-Jun-2018 17:02
Surr: 4-Bromofluorobenzene	75.0			70-123	%REC	1	28-Jun-2018 17:02
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	11		2.5	8.5	mg/Kg	5	28-Jun-2018 23:00
TPH (Motor Oil Range)	150	n	2.5	17	mg/Kg	5	28-Jun-2018 23:00
Surr: 2-Fluorobiphenyl	45.2	S		60-129	%REC	5	28-Jun-2018 23:00
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	22.8		1.97	4.92	mg/Kg	1	29-Jun-2018 10:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S6 @ 2'
 Collection Date: 21-Jun-2018 09:30

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-10
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00048	0.0048	mg/Kg	1	28-Jun-2018 19:47
Ethylbenzene	U		0.00066	0.0048	mg/Kg	1	28-Jun-2018 19:47
m,p-Xylene	U		0.0015	0.0095	mg/Kg	1	28-Jun-2018 19:47
o-Xylene	U		0.00095	0.0048	mg/Kg	1	28-Jun-2018 19:47
Toluene	U		0.00057	0.0048	mg/Kg	1	28-Jun-2018 19:47
Xylenes, Total	U		0.00095	0.0048	mg/Kg	1	28-Jun-2018 19:47
Surr: 1,2-Dichloroethane-d4	104			70-126	%REC	1	28-Jun-2018 19:47
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	28-Jun-2018 19:47
Surr: Dibromofluoromethane	97.7			70-130	%REC	1	28-Jun-2018 19:47
Surr: Toluene-d8	101			70-130	%REC	1	28-Jun-2018 19:47
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	0.039	J	0.010	0.050	mg/Kg	1	28-Jun-2018 17:18
Surr: 4-Bromofluorobenzene	74.6			70-123	%REC	1	28-Jun-2018 17:18
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	U		0.50	1.7	mg/Kg	1	26-Jun-2018 22:20
TPH (Motor Oil Range)	6.1	n	0.50	3.4	mg/Kg	1	26-Jun-2018 22:20
Surr: 2-Fluorobiphenyl	70.2			60-129	%REC	1	26-Jun-2018 22:20
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	12.9		2.00	5.00	mg/Kg	1	29-Jun-2018 10:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S6 @ 3'
 Collection Date: 21-Jun-2018 09:35

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-11
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00048	0.0048	mg/Kg	1	28-Jun-2018 20:11
Ethylbenzene	U		0.00068	0.0048	mg/Kg	1	28-Jun-2018 20:11
m,p-Xylene	U		0.0016	0.0097	mg/Kg	1	28-Jun-2018 20:11
o-Xylene	U		0.00097	0.0048	mg/Kg	1	28-Jun-2018 20:11
Toluene	U		0.00058	0.0048	mg/Kg	1	28-Jun-2018 20:11
Xylenes, Total	U		0.00097	0.0048	mg/Kg	1	28-Jun-2018 20:11
Surr: 1,2-Dichloroethane-d4	101			70-126	%REC	1	28-Jun-2018 20:11
Surr: 4-Bromofluorobenzene	98.5			70-130	%REC	1	28-Jun-2018 20:11
Surr: Dibromofluoromethane	90.5			70-130	%REC	1	28-Jun-2018 20:11
Surr: Toluene-d8	102			70-130	%REC	1	28-Jun-2018 20:11
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	0.025	J	0.010	0.050	mg/Kg	1	28-Jun-2018 17:35
Surr: 4-Bromofluorobenzene	73.1			70-123	%REC	1	28-Jun-2018 17:35
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	10		0.50	1.7	mg/Kg	1	26-Jun-2018 23:33
TPH (Motor Oil Range)	12	n	0.50	3.4	mg/Kg	1	26-Jun-2018 23:33
Surr: 2-Fluorobiphenyl	73.6			60-129	%REC	1	26-Jun-2018 23:33
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	2.98	J	1.98	4.95	mg/Kg	1	29-Jun-2018 10:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S6 @ 4'
 Collection Date: 21-Jun-2018 09:41

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-12
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00048	0.0048	mg/Kg	1	28-Jun-2018 20:34
Ethylbenzene	U		0.00066	0.0048	mg/Kg	1	28-Jun-2018 20:34
m,p-Xylene	U		0.0015	0.0095	mg/Kg	1	28-Jun-2018 20:34
o-Xylene	U		0.00095	0.0048	mg/Kg	1	28-Jun-2018 20:34
Toluene	U		0.00057	0.0048	mg/Kg	1	28-Jun-2018 20:34
Xylenes, Total	U		0.00095	0.0048	mg/Kg	1	28-Jun-2018 20:34
Surr: 1,2-Dichloroethane-d4	101			70-126	%REC	1	28-Jun-2018 20:34
Surr: 4-Bromofluorobenzene	99.2			70-130	%REC	1	28-Jun-2018 20:34
Surr: Dibromofluoromethane	92.6			70-130	%REC	1	28-Jun-2018 20:34
Surr: Toluene-d8	102			70-130	%REC	1	28-Jun-2018 20:34
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	0.038	J	0.010	0.050	mg/Kg	1	28-Jun-2018 17:51
Surr: 4-Bromofluorobenzene	76.0			70-123	%REC	1	28-Jun-2018 17:51
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	12		2.5	8.5	mg/Kg	5	28-Jun-2018 23:24
TPH (Motor Oil Range)	140	n	2.5	17	mg/Kg	5	28-Jun-2018 23:24
Surr: 2-Fluorobiphenyl	43.3	S		60-129	%REC	5	28-Jun-2018 23:24
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	3.30	J	2.00	5.00	mg/Kg	1	29-Jun-2018 11:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S3 @ 2'
 Collection Date: 21-Jun-2018 09:51

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-13
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00050	0.0050	mg/Kg	1	28-Jun-2018 20:58
Ethylbenzene	U		0.00071	0.0050	mg/Kg	1	28-Jun-2018 20:58
m,p-Xylene	U		0.0016	0.010	mg/Kg	1	28-Jun-2018 20:58
o-Xylene	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 20:58
Toluene	U		0.00061	0.0050	mg/Kg	1	28-Jun-2018 20:58
Xylenes, Total	U		0.0010	0.0050	mg/Kg	1	28-Jun-2018 20:58
Surr: 1,2-Dichloroethane-d4	100			70-126	%REC	1	28-Jun-2018 20:58
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	28-Jun-2018 20:58
Surr: Dibromofluoromethane	94.1			70-130	%REC	1	28-Jun-2018 20:58
Surr: Toluene-d8	101			70-130	%REC	1	28-Jun-2018 20:58
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	0.040	J	0.010	0.050	mg/Kg	1	28-Jun-2018 18:08
Surr: 4-Bromofluorobenzene	74.1			70-123	%REC	1	28-Jun-2018 18:08
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	11		0.50	1.7	mg/Kg	1	27-Jun-2018 00:21
TPH (Motor Oil Range)	11	n	0.50	3.4	mg/Kg	1	27-Jun-2018 00:21
Surr: 2-Fluorobiphenyl	72.5			60-129	%REC	1	27-Jun-2018 00:21
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	4.66	J	2.00	5.00	mg/Kg	1	29-Jun-2018 12:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S3 @ 3'
 Collection Date: 21-Jun-2018 10:03

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-14
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00049	0.0049	mg/Kg	1	28-Jun-2018 21:22
Ethylbenzene	U		0.00069	0.0049	mg/Kg	1	28-Jun-2018 21:22
m,p-Xylene	U		0.0016	0.0098	mg/Kg	1	28-Jun-2018 21:22
o-Xylene	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 21:22
Toluene	U		0.00059	0.0049	mg/Kg	1	28-Jun-2018 21:22
Xylenes, Total	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 21:22
Surr: 1,2-Dichloroethane-d4	101			70-126	%REC	1	28-Jun-2018 21:22
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	28-Jun-2018 21:22
Surr: Dibromofluoromethane	100			70-130	%REC	1	28-Jun-2018 21:22
Surr: Toluene-d8	103			70-130	%REC	1	28-Jun-2018 21:22
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	U		0.010	0.050	mg/Kg	1	28-Jun-2018 18:57
Surr: 4-Bromofluorobenzene	79.7			70-123	%REC	1	28-Jun-2018 18:57
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	1.5	J	0.50	1.7	mg/Kg	1	27-Jun-2018 00:46
TPH (Motor Oil Range)	17	n	0.50	3.4	mg/Kg	1	27-Jun-2018 00:46
Surr: 2-Fluorobiphenyl	60.2			60-129	%REC	1	27-Jun-2018 00:46
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	4.31	J	1.98	4.96	mg/Kg	1	29-Jun-2018 12:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
 Project: Percussion-Foster Tank Battery
 Sample ID: S3 @ 4'
 Collection Date: 21-Jun-2018 10:12

ANALYTICAL REPORT

WorkOrder:HS18061237
 Lab ID:HS18061237-15
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR	
Benzene	U		0.00049	0.0049	mg/Kg	1	28-Jun-2018 21:46
Ethylbenzene	U		0.00069	0.0049	mg/Kg	1	28-Jun-2018 21:46
m,p-Xylene	U		0.0016	0.0098	mg/Kg	1	28-Jun-2018 21:46
o-Xylene	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 21:46
Toluene	U		0.00059	0.0049	mg/Kg	1	28-Jun-2018 21:46
Xylenes, Total	U		0.00098	0.0049	mg/Kg	1	28-Jun-2018 21:46
Surr: 1,2-Dichloroethane-d4	101			70-126	%REC	1	28-Jun-2018 21:46
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	28-Jun-2018 21:46
Surr: Dibromofluoromethane	95.6			70-130	%REC	1	28-Jun-2018 21:46
Surr: Toluene-d8	102			70-130	%REC	1	28-Jun-2018 21:46
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: NPI	
Gasoline Range Organics	0.048	J	0.010	0.050	mg/Kg	1	28-Jun-2018 19:13
Surr: 4-Bromofluorobenzene	73.3			70-123	%REC	1	28-Jun-2018 19:13
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3541 / 26-Jun-2018	Analyst: AP
TPH (Diesel Range)	5.9		0.50	1.7	mg/Kg	1	27-Jun-2018 01:10
TPH (Motor Oil Range)	8.6	n	0.50	3.4	mg/Kg	1	27-Jun-2018 01:10
Surr: 2-Fluorobiphenyl	74.8			60-129	%REC	1	27-Jun-2018 01:10
ANIONS BY E300.0		Method:E300				Prep:E300 / 28-Jun-2018	Analyst: KMU
Chloride	5.64		2.00	4.99	mg/Kg	1	29-Jun-2018 13:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

WEIGHT LOG

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

Batch ID: 2490 **Method:** GASOLINE RANGE ORGANICS BY SW8015C **Prep:**

SamplID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS18061237-01	1	5 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-02	1	5.07 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-03	1	4.99 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-04	1	5.03 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-05	1	4.97 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-06	1	5.05 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-07	1	4.97 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-08	1	5.04 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-09	1	5.02 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-10	1	5.01 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-11	1	4.94 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-12	1	4.97 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-13	1	5.02 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-14	1	5.07 (g)	5 (mL)	1	Bulk (5030B)
HS18061237-15	1	5.06 (g)	5 (mL)	1	Bulk (5030B)

Batch ID: 2492 **Method:** VOLATILES BY SW8260C

SamplID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS18061237-01	1	5.299 (g)	5 (mL)	0.94	Bulk (5030B)
HS18061237-02	1	5.159 (g)	5 (mL)	0.97	Bulk (5030B)
HS18061237-03	1	5.085 (g)	5 (mL)	0.98	Bulk (5030B)
HS18061237-04	1	5.288 (g)	5 (mL)	0.95	Bulk (5030B)
HS18061237-05	1	5.1 (g)	5 (mL)	0.98	Bulk (5030B)
HS18061237-06	1	4.928 (g)	5 (mL)	1.01	Bulk (5030B)
HS18061237-07	1	4.929 (g)	5 (mL)	1.01	Bulk (5030B)
HS18061237-08	1	5.236 (g)	5 (mL)	0.95	Bulk (5030B)
HS18061237-09	1	5.084 (g)	5 (mL)	0.98	Bulk (5030B)
HS18061237-10	1	5.244 (g)	5 (mL)	0.95	Bulk (5030B)
HS18061237-11	1	5.174 (g)	5 (mL)	0.97	Bulk (5030B)
HS18061237-12	1	5.264 (g)	5 (mL)	0.95	Bulk (5030B)
HS18061237-13	1	4.939 (g)	5 (mL)	1.01	Bulk (5030B)
HS18061237-14	1	5.104 (g)	5 (mL)	0.98	Bulk (5030B)
HS18061237-15	1	5.084 (g)	5 (mL)	0.98	Bulk (5030B)

WEIGHT LOG

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

Batch ID: 129803 **Method:** TPH DRO/ORO BY SW8015C **Prep:** 8015SPR_LL

SamplID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS18061237-01	1	30.02	1 (mL)	0.03331
HS18061237-02	1	30.06	1 (mL)	0.03327
HS18061237-03	1	30.09	1 (mL)	0.03323
HS18061237-04	1	30.04	1 (mL)	0.03329
HS18061237-05	1	30.09	1 (mL)	0.03323
HS18061237-06	1	30.07	1 (mL)	0.03326
HS18061237-07	1	30.07	1 (mL)	0.03326
HS18061237-08	1	30.05	1 (mL)	0.03328
HS18061237-09	1	30.06	1 (mL)	0.03327
HS18061237-10	1	30.03	1 (mL)	0.0333
HS18061237-11	1	30.09	1 (mL)	0.03323
HS18061237-12	1	30.11	1 (mL)	0.03321
HS18061237-13	1	30.18	1 (mL)	0.03313
HS18061237-14	1	30.16	1 (mL)	0.03316
HS18061237-15	1	30.03	1 (mL)	0.0333

Batch ID: 129923 **Method:** ANIONS BY E300.0 **Prep:** 300_S_PR

SamplID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS18061237-01	1	5.0711	50 (mL)	9.86
HS18061237-02	1	5.0551	50 (mL)	9.891
HS18061237-03	1	5.0391	50 (mL)	9.922
HS18061237-04	1	5.0217	50 (mL)	9.957
HS18061237-05	1	5.0115	50 (mL)	9.977
HS18061237-06	1	5.0617	50 (mL)	9.878
HS18061237-07	1	5.062	50 (mL)	9.878
HS18061237-08	1	5.0418	50 (mL)	9.917
HS18061237-09	1	5.0819	50 (mL)	9.839
HS18061237-10	1	5.0018	50 (mL)	9.996
HS18061237-11	1	5.0514	50 (mL)	9.898
HS18061237-12	1	5.0041	50 (mL)	9.992
HS18061237-13	1	5.0031	50 (mL)	9.994
HS18061237-14	1	5.0412	50 (mL)	9.918
HS18061237-15	1	5.0118	50 (mL)	9.976

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 129803 Test Name : TPH DRO/ORO BY SW8015C Matrix: Soil						
HS18061237-01	S9 @ 2'	21 Jun 2018 08:08		26 Jun 2018 10:00	26 Jun 2018 19:05	1
HS18061237-02	S9 @ 3'	21 Jun 2018 08:19		26 Jun 2018 10:00	26 Jun 2018 19:30	1
HS18061237-03	S9 @ 4'	21 Jun 2018 08:26		26 Jun 2018 10:00	26 Jun 2018 19:54	1
HS18061237-04	S10 @ 2'	21 Jun 2018 08:38		26 Jun 2018 10:00	26 Jun 2018 20:18	1
HS18061237-05	S10 @ 3'	21 Jun 2018 08:45		26 Jun 2018 10:00	26 Jun 2018 20:43	1
HS18061237-06	S10 @ 4'	21 Jun 2018 08:53		26 Jun 2018 10:00	26 Jun 2018 17:53	1
HS18061237-07	S8 @ 2'	21 Jun 2018 09:02		26 Jun 2018 10:00	28 Jun 2018 22:12	10
HS18061237-08	S8 @ 3'	21 Jun 2018 09:10		26 Jun 2018 10:00	26 Jun 2018 21:31	1
HS18061237-09	S8 @ 4'	21 Jun 2018 09:17		26 Jun 2018 10:00	28 Jun 2018 23:00	5
HS18061237-10	S6 @ 2'	21 Jun 2018 09:30		26 Jun 2018 10:00	26 Jun 2018 22:20	1
HS18061237-11	S6 @ 3'	21 Jun 2018 09:35		26 Jun 2018 10:00	26 Jun 2018 23:33	1
HS18061237-12	S6 @ 4'	21 Jun 2018 09:41		26 Jun 2018 10:00	28 Jun 2018 23:24	5
HS18061237-13	S3 @ 2'	21 Jun 2018 09:51		26 Jun 2018 10:00	27 Jun 2018 00:21	1
HS18061237-14	S3 @ 3'	21 Jun 2018 10:03		26 Jun 2018 10:00	27 Jun 2018 00:46	1
HS18061237-15	S3 @ 4'	21 Jun 2018 10:12		26 Jun 2018 10:00	27 Jun 2018 01:10	1
Batch ID 129923 Test Name : ANIONS BY E300.0 Matrix: Soil						
HS18061237-01	S9 @ 2'	21 Jun 2018 08:08		28 Jun 2018 13:03	29 Jun 2018 05:26	1
HS18061237-02	S9 @ 3'	21 Jun 2018 08:19		28 Jun 2018 13:03	29 Jun 2018 05:47	1
HS18061237-03	S9 @ 4'	21 Jun 2018 08:26		28 Jun 2018 13:03	29 Jun 2018 06:09	1
HS18061237-04	S10 @ 2'	21 Jun 2018 08:38		28 Jun 2018 13:03	29 Jun 2018 06:31	1
HS18061237-05	S10 @ 3'	21 Jun 2018 08:45		28 Jun 2018 13:03	29 Jun 2018 06:52	1
HS18061237-06	S10 @ 4'	21 Jun 2018 08:53		28 Jun 2018 13:03	29 Jun 2018 07:57	1
HS18061237-07	S8 @ 2'	21 Jun 2018 09:02		28 Jun 2018 13:03	29 Jun 2018 09:03	1
HS18061237-08	S8 @ 3'	21 Jun 2018 09:10		28 Jun 2018 13:03	29 Jun 2018 09:24	1
HS18061237-09	S8 @ 4'	21 Jun 2018 09:17		28 Jun 2018 13:03	29 Jun 2018 10:08	1
HS18061237-10	S6 @ 2'	21 Jun 2018 09:30		28 Jun 2018 13:03	29 Jun 2018 10:29	1
HS18061237-11	S6 @ 3'	21 Jun 2018 09:35		28 Jun 2018 13:03	29 Jun 2018 10:51	1
HS18061237-12	S6 @ 4'	21 Jun 2018 09:41		28 Jun 2018 13:03	29 Jun 2018 11:13	1
HS18061237-13	S3 @ 2'	21 Jun 2018 09:51		28 Jun 2018 13:03	29 Jun 2018 12:18	1
HS18061237-14	S3 @ 3'	21 Jun 2018 10:03		28 Jun 2018 13:03	29 Jun 2018 12:40	1
HS18061237-15	S3 @ 4'	21 Jun 2018 10:12		28 Jun 2018 13:03	29 Jun 2018 13:01	1
Batch ID R318806 Test Name : VOLATILES BY SW8260C Matrix: Soil						
HS18061237-01	S9 @ 2'	21 Jun 2018 08:08			28 Jun 2018 10:50	1
HS18061237-02	S9 @ 3'	21 Jun 2018 08:19			28 Jun 2018 11:14	1

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R318880 Test Name : GASOLINE RANGE ORGANICS BY SW8015C Matrix: Soil						
HS18061237-01	S9 @ 2'	21 Jun 2018 08:08			28 Jun 2018 12:24	1
HS18061237-02	S9 @ 3'	21 Jun 2018 08:19			28 Jun 2018 13:29	1
HS18061237-03	S9 @ 4'	21 Jun 2018 08:26			28 Jun 2018 13:46	1
HS18061237-04	S10 @ 2'	21 Jun 2018 08:38			28 Jun 2018 14:02	1
HS18061237-05	S10 @ 3'	21 Jun 2018 08:45			28 Jun 2018 14:18	1
HS18061237-06	S10 @ 4'	21 Jun 2018 08:53			28 Jun 2018 15:07	1
HS18061237-07	S8 @ 2'	21 Jun 2018 09:02			28 Jun 2018 16:29	1
HS18061237-08	S8 @ 3'	21 Jun 2018 09:10			28 Jun 2018 16:46	1
HS18061237-09	S8 @ 4'	21 Jun 2018 09:17			28 Jun 2018 17:02	1
HS18061237-10	S6 @ 2'	21 Jun 2018 09:30			28 Jun 2018 17:18	1
HS18061237-11	S6 @ 3'	21 Jun 2018 09:35			28 Jun 2018 17:35	1
HS18061237-12	S6 @ 4'	21 Jun 2018 09:41			28 Jun 2018 17:51	1
HS18061237-13	S3 @ 2'	21 Jun 2018 09:51			28 Jun 2018 18:08	1
HS18061237-14	S3 @ 3'	21 Jun 2018 10:03			28 Jun 2018 18:57	1
HS18061237-15	S3 @ 4'	21 Jun 2018 10:12			28 Jun 2018 19:13	1
Batch ID R318905 Test Name : VOLATILES BY SW8260C Matrix: Soil						
HS18061237-03	S9 @ 4'	21 Jun 2018 08:26			28 Jun 2018 15:43	1
HS18061237-04	S10 @ 2'	21 Jun 2018 08:38			28 Jun 2018 16:07	1
HS18061237-05	S10 @ 3'	21 Jun 2018 08:45			28 Jun 2018 17:46	1
HS18061237-06	S10 @ 4'	21 Jun 2018 08:53			28 Jun 2018 18:11	1
HS18061237-07	S8 @ 2'	21 Jun 2018 09:02			28 Jun 2018 18:35	1
HS18061237-08	S8 @ 3'	21 Jun 2018 09:10			28 Jun 2018 18:59	1
HS18061237-09	S8 @ 4'	21 Jun 2018 09:17			28 Jun 2018 19:23	1
HS18061237-10	S6 @ 2'	21 Jun 2018 09:30			28 Jun 2018 19:47	1
HS18061237-11	S6 @ 3'	21 Jun 2018 09:35			28 Jun 2018 20:11	1
HS18061237-12	S6 @ 4'	21 Jun 2018 09:41			28 Jun 2018 20:34	1
HS18061237-13	S3 @ 2'	21 Jun 2018 09:51			28 Jun 2018 20:58	1
HS18061237-14	S3 @ 3'	21 Jun 2018 10:03			28 Jun 2018 21:22	1
HS18061237-15	S3 @ 4'	21 Jun 2018 10:12			28 Jun 2018 21:46	1

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

QC BATCH REPORT

Batch ID: 129803		Instrument: FID-8		Method: SW8015M					
MBLK	Sample ID: MBLK-129803	Units: mg/Kg		Analysis Date: 26-Jun-2018 17:04					
Client ID:	Run ID: FID-8_318938		SeqNo: 4630988		PrepDate: 26-Jun-2018		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

TPH (Diesel Range)	U	1.7							
TPH (Motor Oil Range)	U	3.4							
Surr: 2-Fluorobiphenyl	2.64	0.10	3.33	0	79.3	70 - 130			

LCS	Sample ID: LCS-129803	Units: mg/Kg		Analysis Date: 26-Jun-2018 17:28					
Client ID:	Run ID: FID-8_318938		SeqNo: 4630989		PrepDate: 26-Jun-2018		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

TPH (Diesel Range)	35.2	1.7	33.33	0	106	70 - 130			
TPH (Motor Oil Range)	29.71	3.4	33.33	0	89.1	70 - 130			
Surr: 2-Fluorobiphenyl	3.305	0.10	3.33	0	99.2	70 - 130			

MS	Sample ID: HS18061237-06MS	Units: mg/Kg		Analysis Date: 26-Jun-2018 18:17					
Client ID: S10 @ 4'	Run ID: FID-8_318938		SeqNo: 4630991		PrepDate: 26-Jun-2018		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

TPH (Diesel Range)	39.57	1.7	33.27	0.3419	118	70 - 130			
TPH (Motor Oil Range)	31.77	3.4	33.27	4.249	82.7	70 - 130			
Surr: 2-Fluorobiphenyl	3.616	0.10	3.324	0	109	60 - 129			

MSD	Sample ID: HS18061237-06MSD	Units: mg/Kg		Analysis Date: 26-Jun-2018 18:41					
Client ID: S10 @ 4'	Run ID: FID-8_318938		SeqNo: 4630992		PrepDate: 26-Jun-2018		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

TPH (Diesel Range)	37.47	1.7	33.23	0.3419	112	70 - 130	39.57	5.45	30
TPH (Motor Oil Range)	30.72	3.4	33.23	4.249	79.7	70 - 130	31.77	3.36	30
Surr: 2-Fluorobiphenyl	3.403	0.10	3.32	0	102	60 - 129	3.616	6.09	30

The following samples were analyzed in this batch:			
HS18061237-01	HS18061237-02	HS18061237-03	HS18061237-04
HS18061237-05	HS18061237-06	HS18061237-07	HS18061237-08
HS18061237-09	HS18061237-10	HS18061237-11	HS18061237-12
HS18061237-13	HS18061237-14	HS18061237-15	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

QC BATCH REPORT

Batch ID: R318880		Instrument: FID-14		Method: SW8015					
MBLK	Sample ID: GMBLK-180628	Units: mg/Kg		Analysis Date: 28-Jun-2018 12:08					
Client ID:	Run ID: FID-14_318880	SeqNo: 4629664		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	U	0.050							
Surr: 4-Bromofluorobenzene	0.0778	0.0050	0.1	0	77.8	75 - 121			
LCS	Sample ID: GLCS-180628	Units: mg/Kg		Analysis Date: 28-Jun-2018 11:35					
Client ID:	Run ID: FID-14_318880	SeqNo: 4629663		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	0.7357	0.050	1	0	73.6	72 - 121			
Surr: 4-Bromofluorobenzene	0.07607	0.0050	0.1	0	76.1	75 - 121			
MS	Sample ID: HS18061237-01MS	Units: mg/Kg		Analysis Date: 28-Jun-2018 12:40					
Client ID: S9 @ 2'	Run ID: FID-14_318880	SeqNo: 4629666		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	0.676	0.050	1	0	67.6	70 - 130			S
Surr: 4-Bromofluorobenzene	0.0492	0.0050	0.1	0	49.2	70 - 123			S
MSD	Sample ID: HS18061237-01MSD	Units: mg/Kg		Analysis Date: 28-Jun-2018 12:57					
Client ID: S9 @ 2'	Run ID: FID-14_318880	SeqNo: 4629667		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	0.5049	0.050	1	0	50.5	70 - 130	0.676	29 30	S
Surr: 4-Bromofluorobenzene	0.04091	0.0050	0.1	0	40.9	70 - 123	0.0492	18.4 30	S
The following samples were analyzed in this batch:									
HS18061237-01		HS18061237-02		HS18061237-03		HS18061237-04			
HS18061237-05		HS18061237-06		HS18061237-07		HS18061237-08			
HS18061237-09		HS18061237-10		HS18061237-11		HS18061237-12			
HS18061237-13		HS18061237-14		HS18061237-15					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

QC BATCH REPORT

Batch ID: R318806		Instrument: VOA5		Method: SW8260					
MBLK	Sample ID: VBLKS1-062818	Units: ug/Kg		Analysis Date: 28-Jun-2018 04:07					
Client ID:	Run ID: VOA5_318806	SeqNo: 4628302		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
m,p-Xylene	U	10							
o-Xylene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.35</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>98.7</i>	<i>76 - 125</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.27</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>83 - 120</i>			
<i>Surr: Dibromofluoromethane</i>	<i>49.09</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>98.2</i>	<i>80 - 119</i>			
<i>Surr: Toluene-d8</i>	<i>50.7</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 118</i>			

LCS	Sample ID: VLCSS1-062818	Units: ug/Kg		Analysis Date: 28-Jun-2018 03:20					
Client ID:	Run ID: VOA5_318806	SeqNo: 4628301		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	53.15	5.0	50	0	106	75 - 124			
Ethylbenzene	56.34	5.0	50	0	113	70 - 123			
m,p-Xylene	115	10	100	0	115	77 - 125			
o-Xylene	58.18	5.0	50	0	116	78 - 122			
Toluene	56.14	5.0	50	0	112	76 - 122			
Xylenes, Total	173.1	5.0	150	0	115	77 - 128			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.92</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>97.8</i>	<i>76 - 125</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.4</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>83 - 120</i>			
<i>Surr: Dibromofluoromethane</i>	<i>46.75</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>93.5</i>	<i>80 - 119</i>			
<i>Surr: Toluene-d8</i>	<i>50.31</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 118</i>			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

QC BATCH REPORT

Batch ID: R318806		Instrument: VOA5		Method: SW8260					
MS		Sample ID: HS18061236-10MS		Units: ug/Kg		Analysis Date: 28-Jun-2018 08:52			
Client ID:		Run ID: VOA5_318806		SeqNo: 4628442		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	40.55	4.9	49	0	82.8	70 - 130			
Ethylbenzene	43.57	4.9	49	0	88.9	70 - 130			
m,p-Xylene	87.69	9.8	98	0	89.5	70 - 130			
o-Xylene	44.95	4.9	49	0	91.7	70 - 130			
Toluene	42.99	4.9	49	0	87.7	70 - 130			
Xylenes, Total	132.6	4.9	147	0	90.2	70 - 130			
Surr: 1,2-Dichloroethane-d4	49.36	0	49	0	101	70 - 126			
Surr: 4-Bromofluorobenzene	50.79	0	49	0	104	70 - 130			
Surr: Dibromofluoromethane	49.01	0	49	0	100	70 - 130			
Surr: Toluene-d8	49.62	0	49	0	101	70 - 130			

MSD		Sample ID: HS18061236-10MSD		Units: ug/Kg		Analysis Date: 28-Jun-2018 09:16			
Client ID:		Run ID: VOA5_318806		SeqNo: 4628443		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	43.95	4.9	49	0	89.7	70 - 130	40.55	8.05	30
Ethylbenzene	47.6	4.9	49	0	97.1	70 - 130	43.57	8.86	30
m,p-Xylene	95.22	9.8	98	0	97.2	70 - 130	87.69	8.23	30
o-Xylene	48.58	4.9	49	0	99.1	70 - 130	44.95	7.78	30
Toluene	46.05	4.9	49	0	94.0	70 - 130	42.99	6.87	30
Xylenes, Total	143.8	4.9	147	0	97.8	70 - 130	132.6	8.07	30
Surr: 1,2-Dichloroethane-d4	50.49	0	49	0	103	70 - 126	49.36	2.26	30
Surr: 4-Bromofluorobenzene	50.8	0	49	0	104	70 - 130	50.79	0.00924	30
Surr: Dibromofluoromethane	50.04	0	49	0	102	70 - 130	49.01	2.08	30
Surr: Toluene-d8	49.94	0	49	0	102	70 - 130	49.62	0.642	30

The following samples were analyzed in this batch: HS18061237-01 HS18061237-02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

QC BATCH REPORT

Batch ID: R318905		Instrument: VOA5		Method: SW8260					
MBLK	Sample ID: VBLKS1-062818	Units: ug/Kg		Analysis Date: 28-Jun-2018 15:18					
Client ID:	Run ID: VOA5_318905	SeqNo: 4630314		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
m,p-Xylene	U	10							
o-Xylene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	48.84	0	50	0	97.7	76 - 125			
Surr: 4-Bromofluorobenzene	49.68	0	50	0	99.4	83 - 120			
Surr: Dibromofluoromethane	46.12	0	50	0	92.2	80 - 119			
Surr: Toluene-d8	49.97	0	50	0	99.9	81 - 118			

LCS	Sample ID: VLCSS1-062818	Units: ug/Kg		Analysis Date: 28-Jun-2018 14:29					
Client ID:	Run ID: VOA5_318905	SeqNo: 4630313		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	46.67	5.0	50	0	93.3	75 - 124			
Ethylbenzene	48.05	5.0	50	0	96.1	70 - 123			
m,p-Xylene	95.05	10	100	0	95.1	77 - 125			
o-Xylene	48.01	5.0	50	0	96.0	78 - 122			
Toluene	47.31	5.0	50	0	94.6	76 - 122			
Xylenes, Total	143.1	5.0	150	0	95.4	77 - 128			
Surr: 1,2-Dichloroethane-d4	51.32	0	50	0	103	76 - 125			
Surr: 4-Bromofluorobenzene	52.54	0	50	0	105	83 - 120			
Surr: Dibromofluoromethane	47.46	0	50	0	94.9	80 - 119			
Surr: Toluene-d8	50.94	0	50	0	102	81 - 118			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

QC BATCH REPORT

Batch ID: R318905		Instrument: VOA5		Method: SW8260					
MS		Sample ID: HS18061237-03MS		Units: ug/Kg		Analysis Date: 28-Jun-2018 16:56			
Client ID: S9 @ 4'		Run ID: VOA5_318905		SeqNo: 4630317		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	35.6	5.0	50	0	71.2	70 - 130			
Ethylbenzene	36.6	5.0	50	0	73.2	70 - 130			
m,p-Xylene	72.44	10	100	1.39	71.0	70 - 130			
o-Xylene	37.52	5.0	50	0.6932	73.6	70 - 130			
Toluene	36.61	5.0	50	0	73.2	70 - 130			
Xylenes, Total	110	5.0	150	0	73.3	70 - 130			
Surr: 1,2-Dichloroethane-d4	50.06	0	50	0	100	70 - 126			
Surr: 4-Bromofluorobenzene	50.41	0	50	0	101	70 - 130			
Surr: Dibromofluoromethane	46.96	0	50	0	93.9	70 - 130			
Surr: Toluene-d8	49.29	0	50	0	98.6	70 - 130			

MSD		Sample ID: HS18061237-03MSD		Units: ug/Kg		Analysis Date: 28-Jun-2018 17:21			
Client ID: S9 @ 4'		Run ID: VOA5_318905		SeqNo: 4630318		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	36.79	5.0	49.5	0	74.3	70 - 130	35.6	3.29	30
Ethylbenzene	37.62	5.0	49.5	0	76.0	70 - 130	36.6	2.74	30
m,p-Xylene	75.29	9.9	99	1.39	74.6	70 - 130	72.44	3.86	30
o-Xylene	38.85	5.0	49.5	0.6932	77.1	70 - 130	37.52	3.48	30
Toluene	38.57	5.0	49.5	0	77.9	70 - 130	36.61	5.21	30
Xylenes, Total	114.1	5.0	148.5	0	76.9	70 - 130	110	3.73	30
Surr: 1,2-Dichloroethane-d4	51.5	0	49.5	0	104	70 - 126	50.06	2.84	30
Surr: 4-Bromofluorobenzene	50.4	0	49.5	0	102	70 - 130	50.41	0.0328	30
Surr: Dibromofluoromethane	50.16	0	49.5	0	101	70 - 130	46.96	6.59	30
Surr: Toluene-d8	50.03	0	49.5	0	101	70 - 130	49.29	1.48	30

The following samples were analyzed in this batch:				HS18061237-03	HS18061237-04	HS18061237-05	HS18061237-06
				HS18061237-07	HS18061237-08	HS18061237-09	HS18061237-10
				HS18061237-11	HS18061237-12	HS18061237-13	HS18061237-14
				HS18061237-15			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

QC BATCH REPORT

Batch ID: 129923		Instrument: ICS3K2		Method: E300						
MBLK	Sample ID: MBLK-129923	Units: mg/Kg		Analysis Date: 29-Jun-2018 03:37						
Client ID:		Run ID: ICS3K2_318955		SeqNo: 4631351	PrepDate: 28-Jun-2018	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	U	5.00								
LCS	Sample ID: LCS-129923	Units: mg/Kg		Analysis Date: 29-Jun-2018 03:59						
Client ID:		Run ID: ICS3K2_318955		SeqNo: 4631352	PrepDate: 28-Jun-2018	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	204.6	5.00	200	0	102	90 - 110				
LCSD	Sample ID: LCSD-129923	Units: mg/Kg		Analysis Date: 29-Jun-2018 04:20						
Client ID:		Run ID: ICS3K2_318955		SeqNo: 4631353	PrepDate: 28-Jun-2018	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	204.9	5.00	200	0	102	90 - 110	204.6	0.161	20	
MS	Sample ID: HS18061237-15MS	Units: mg/Kg		Analysis Date: 29-Jun-2018 13:23						
Client ID: S3 @ 4'		Run ID: ICS3K2_318955		SeqNo: 4631377	PrepDate: 28-Jun-2018	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	102.5	4.95	98.97	5.637	97.8	75 - 125				
MS	Sample ID: HS18061237-06MS	Units: mg/Kg		Analysis Date: 29-Jun-2018 08:19						
Client ID: S10 @ 4'		Run ID: ICS3K2_318955		SeqNo: 4631364	PrepDate: 28-Jun-2018	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	99.41	4.95	98.98	3.606	96.8	75 - 125				
MSD	Sample ID: HS18061237-15MSD	Units: mg/Kg		Analysis Date: 29-Jun-2018 13:45						
Client ID: S3 @ 4'		Run ID: ICS3K2_318955		SeqNo: 4631378	PrepDate: 28-Jun-2018	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	104.1	5.00	99.96	5.637	98.5	75 - 125	102.5	1.58	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

QC BATCH REPORT

Batch ID: 129923											Instrument: ICS3K2			Method: E300		
MSD		Sample ID: HS18061237-06MSD				Units: mg/Kg		Analysis Date: 29-Jun-2018 08:41								
Client ID: S10 @ 4'		Run ID: ICS3K2_318955				SeqNo: 4631365		PrepDate: 28-Jun-2018		DF: 1						
Analyte		Result		MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Chloride		98.66		4.94	98.73	3.606	96.3	75 - 125	99.41	0.758	20					

The following samples were analyzed in this batch:

HS18061237-01	HS18061237-02	HS18061237-03	HS18061237-04
HS18061237-05	HS18061237-06	HS18061237-07	HS18061237-08
HS18061237-09	HS18061237-10	HS18061237-11	HS18061237-12
HS18061237-13	HS18061237-14	HS18061237-15	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
WorkOrder: HS18061237

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919 2016-2018	31-Jul-2018
Oklahoma	2017-088	31-Aug-2018
North Carolina	624-2018	31-Dec-2018
Louisiana	03087 2017-2018	30-Jun-2018
Arkansas	88-0356	27-Mar-2019
Kansas	E-10352 2017-218	31-Jul-2018
Texas	T10470231-18-21	30-Apr-2019
North Dakota	R193	30-Apr-2019

Client: WSP Parsons Brinckerhoff
Project: Percussion-Foster Tank Battery
Work Order: HS18061237

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS18061237-01	S9 @ 2'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-01	S9 @ 2'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-02	S9 @ 3'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-02	S9 @ 3'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-03	S9 @ 4'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-03	S9 @ 4'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-04	S10 @ 2'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-04	S10 @ 2'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-05	S10 @ 3'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-05	S10 @ 3'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-06	S10 @ 4'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-06	S10 @ 4'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-07	S8 @ 2'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-07	S8 @ 2'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-08	S8 @ 3'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-08	S8 @ 3'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-09	S8 @ 4'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-09	S8 @ 4'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-10	S6 @ 2'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-10	S6 @ 2'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-11	S6 @ 3'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-11	S6 @ 3'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-12	S6 @ 4'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-12	S6 @ 4'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-13	S3 @ 2'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-13	S3 @ 2'	Login	6/23/2018 1:52:19 PM	PJM	SPA136
HS18061237-14	S3 @ 3'	Login	6/23/2018 1:52:19 PM	PJM	VOA034
HS18061237-14	S3 @ 3'	Login	6/23/2018 1:52:19 PM	PJM	SPA136

Sample Receipt Checklist

Client Name: LBG Addison Texas
 Work Order: HS18061237

Date/Time Received: **22-Jun-2018 08:30**
 Received by: **RPG**

Checklist completed by: Pablo Martinez 23-Jun-2018
 eSignature Date

Reviewed by: Bernadette A. Fini 25-Jun-2018
 eSignature Date

Matrices: **SOIL**Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☒	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☒
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s): 0.6C/0.1C UC/C IR # 11

Cooler(s)/Kit(s): 23952

Date/Time sample(s) sent to storage: 6/23/2018 14:00

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes: S3 @ 3' - Collection Time does not match, logged per CoC
 CoC = 10:03 Label = 10:00

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



Cincinnati, OH
+1 513 733 5336

Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page ____ of ____

COC ID: 181550

HS18061237

WSP Parsons Brinckerhoff
Percussion-Foster Tank Battery



ALS Project Manager:

Customer Information		Project Information	
Purchase Order	31401117.000	Project Name	Percussion-Foster Tank Battery
Work Order		Project Number	
Company Name	WSP Parsons Brinckerhoff	Bill To Company	WSP Parsons Brinckerhoff
Send Report To	Matthew Boyle	Invoice Attn	Accounts Payable
Address	15305 N. Dallas Parkway Suite 300	Address	15305 N. Dallas Parkway Suite 300
City/State/Zip	Addison, TX 75001	City/State/Zip	Addison TX 75001
Phone	(972)-71-5-20	Phone	(972)-71-5-20
Fax		Fax	
e-Mail Address	Matthew.Boyle@WSP.com	e-Mail Address	Accountspayable@WSPGroup.com

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	590 2'	6/21	4:08	50L	ICE	2	✓	✓	✓	✓							
2	590 3'	6/21	4:14	50L	ICE	2	✓	✓	✓	✓							
3	590 4'	6/21	8:26	50L	ICE	2	✓	✓	✓	✓							
4	5100 2'	6/21	4:58	50L	ICE	2	✓	✓	✓	✓							
5	5100 3'	6/21	4:45	50L	ICE	2	✓	✓	✓	✓							
6	5100 4'	6/21	4:53	50L	ICE	2	✓	✓	✓	✓							
7	8580 2'	6/21	9:02	50L	ICE	2	✓	✓	✓	✓							
8	8580 3'	6/21	9:10	50L	ICE	2	✓	✓	✓	✓							
9	8580 4'	6/21	9:17	50L	ICE	2	✓	✓	✓	✓							
10	560 2'	6/21	9:30	50L	ICE	2	✓	✓	✓	✓							

Sampler(s) Please Print & Sign <i>Jeff Sammons</i>		Shipment Method		Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:	
Relinquished by: <i>JEFF SAMMONS</i>		Date: 6/21/18	Time: 12:30 P	Received by: <i>R. C. C. 6/22/18 08:30</i>		Notes: LBG Percussion-Foster Tank Battery	
Relinquished by:		Date:	Time:	Received by (Laboratory):		Checked by (Laboratory):	
Logged by (Laboratory):		Date:	Time:	Cooler ID: 2390		Cooler Temp: 0.6c	QC Package: (Check One Box Below)
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₃ 7-Other 8-4°C 9-5035				Level II Std QC ☒		Level III Std QC/Raw Data ☐	
				Level IV SWM/CLP ☐		TRRP Checklist ☐	
				Other ☐		TRRP Level IV ☐	

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Holland, MI
+1 616 399 6070

Chain of Custody Form

Page ____ of ____

COC ID: 181551

HS18061237

WSP Parsons Brinckerhoff
Percussion-Foster Tank Battery



Customer Information		Project Information		ALS Project Manager:	
Purchase Order	31401117.000	Project Name	Percussion-Foster Tank Battery	A	8260_S (VOC (8260) BTEX)
Work Order		Project Number		B	8015_GRO_S (8015 GRO)
Company Name	WSP Parsons Brinckerhoff	Bill To Company	WSP Parsons Brinckerhoff	C	8015M_S_LL (8015 DRO/ORO)
Send Report To	Matthew Boyle	Invoice Attn	Accounts Payable	D	300_S (Chloride)
Address	15305 N. Dallas Parkway Suite 300	Address	15305 N. Dallas Parkway Suite 300	E	
City/State/Zip	Addison, TX 75001	City/State/Zip	Addison TX 75001	F	
Phone	(972)-71-5-20	Phone	(972)-71-5-20	G	
Fax		Fax		H	
e-Mail Address	Matthew.Boyle@WSP.com	e-Mail Address	Accountspayable@WSPGroup.com	I	
				J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SG@ 3'	6/21	9:35	Soil	ICE	2	✓	✓	✓	✓							
2	SG@ 4'	6/21	9:41	Soil	ICE	2	✓	✓	✓	✓							
3	SG@ 2'	6/21	9:51	Soil	ICE	2	✓	✓	✓	✓							
4	SG@ 3'	6/21	10:03	Soil	ICE	2	✓	✓	✓	✓							
5	SG@ 4'	6/21	10:12	Soil	ICE	2	✓	✓	✓	✓							
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign JEFF SAMMONS		Shipment Method	Required Turnaround Time: (Check Box) ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:
Relinquished by: JEFF SAMMONS	Date: 6/21/18 Time: 12:30 PM	Received by:	Notes: LBG Percussion-Foster Tank Battery		
Relinquished by:		Received by (Laboratory): R. Cige	Cooler ID: 23952	Cooler Temp.: 0.6c	QC Package: (Check One Box Below) ☒ Level II Std QC ☐ TRRP Checklist
Logged by (Laboratory):	Date: Time:	Checked by (Laboratory):	1211		☐ Level III Std QC/Raw Data ☐ TRRP Level IV
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035			CF-0-5		☐ Level IV SW846/CLP ☐ Other

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ALS
 10450 Stancilff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5658
 Fax. +1 281 530 5877

CU
 Date: 6/21/18
 Name: JEFF S
 Company: LSC

STUDY SEAL
 Time: 12:30 PM
 Date: 6/23/18
 Broken By: PM

ALS
 10450 Stancilff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5658
 Fax. +1 281 530 5877

Date:
 Name:

CUSTODY SEAL
 Time: 12:30 PM
 Date: 6/23/18
 Broken By: PM

23952

TRK# 4380 9530 1054
 0221

RETURNS MON-SAT
 PRIORITY OVERNIGHT

FedEx

23952

FRI - 22 JUN 10:30A
 PRIORITY OVERNIGHT

TRK# 4380 9530 1054
 0221

AB SGRA

77099

TX-US IAH





10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 18, 2018

Matthew Boyle
WSP Parsons Brinckerhoff
15305 N. Dallas Parkway
Suite 300
Addison, TX 75001

Work Order: **HS18070608**

Laboratory Results for: **Foster TB**

Dear Matthew,

ALS Environmental received 2 sample(s) on Jul 13, 2018 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER
Bernadette A. Fini
Project Manager

Client: WSP Parsons Brinckerhoff
Project: Foster TB
Work Order: HS18070608

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS18070608-01	S-2 4'	Soil		09-Jul-2018 15:30	13-Jul-2018 08:30	☐
HS18070608-02	S-2 5'	Soil		09-Jul-2018 15:35	13-Jul-2018 08:30	☐

Client: WSP Parsons Brinckerhoff
Project: Foster TB
Work Order: HS18070608

CASE NARRATIVE

WetChemistry by Method E300

Batch ID: 130444

Sample ID: S-2 4' (HS18070608-01MSD)

- The matrix spike duplicate recovery was outside of the control limits. However, the matrix spike recovery and the RPD between the MS and MSD was in control. (Chloride)
-

Client: WSP Parsons Brinckerhoff
Project: Foster TB
Sample ID: S-2 4'
Collection Date: 09-Jul-2018 15:30

ANALYTICAL REPORT

WorkOrder:HS18070608
Lab ID:HS18070608-01
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300			Prep:E300 / 16-Jul-2018		Analyst: KMU
Chloride	171		4.96	mg/Kg	1	17-Jul-2018 01:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Foster TB
Sample ID: S-2 5'
Collection Date: 09-Jul-2018 15:35

ANALYTICAL REPORT

WorkOrder:HS18070608
Lab ID:HS18070608-02
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300			Prep:E300 / 16-Jul-2018		Analyst: KMU
Chloride	179		4.93	mg/Kg	1	17-Jul-2018 02:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

WEIGHT LOG

Client: WSP Parsons Brinckerhoff
Project: Foster TB
WorkOrder: HS18070608

Batch ID: 130444

Method: ANIONS BY E300.0

Prep: 300_S_PR

SamplID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS18070608-01	1	5.0367	50 (mL)	9.927
HS18070608-02	1	5.0737	50 (mL)	9.855

Client: WSP Parsons Brinckerhoff
Project: Foster TB
WorkOrder: HS18070608

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 130444	Test Name : ANIONS BY E300.0		Matrix: Soil			
HS18070608-01	S-2 4'	09 Jul 2018 15:30		16 Jul 2018 15:11	17 Jul 2018 01:34	1
HS18070608-02	S-2 5'	09 Jul 2018 15:35		16 Jul 2018 15:11	17 Jul 2018 02:39	1

Client: WSP Parsons Brinckerhoff
Project: Foster TB
WorkOrder: HS18070608

QC BATCH REPORT

Batch ID: 130444		Instrument: ICS3K2		Method: E300						
MBLK	Sample ID: MBLK-130444	Units: mg/Kg		Analysis Date: 16-Jul-2018 19:25						
Client ID:		Run ID: ICS3K2_319902	SeqNo: 4653131	PrepDate: 16-Jul-2018	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	ND	5.00								
LCS	Sample ID: LCS-130444	Units: mg/Kg		Analysis Date: 16-Jul-2018 19:47						
Client ID:		Run ID: ICS3K2_319902	SeqNo: 4653132	PrepDate: 16-Jul-2018	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	208.1	5.00	200	0	104	90 - 110				
LCSD	Sample ID: LCSD-130444	Units: mg/Kg		Analysis Date: 16-Jul-2018 20:09						
Client ID:		Run ID: ICS3K2_319902	SeqNo: 4653133	PrepDate: 16-Jul-2018	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	208.2	5.00	200	0	104	90 - 110	208.1	0.0528	20	
MS	Sample ID: HS18070608-01MS	Units: mg/Kg		Analysis Date: 17-Jul-2018 01:56						
Client ID: S-2 4'		Run ID: ICS3K2_319902	SeqNo: 4653149	PrepDate: 16-Jul-2018	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	246.7	4.95	99.08	171.3	76.0	75 - 125				
MS	Sample ID: HS18070490-05MS	Units: mg/Kg		Analysis Date: 17-Jul-2018 05:33						
Client ID:		Run ID: ICS3K2_319902	SeqNo: 4653159	PrepDate: 16-Jul-2018	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	123.1	4.97	99.33	17.74	106	75 - 125				
MSD	Sample ID: HS18070608-01MSD	Units: mg/Kg		Analysis Date: 17-Jul-2018 02:18						
Client ID: S-2 4'		Run ID: ICS3K2_319902	SeqNo: 4653150	PrepDate: 16-Jul-2018	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Chloride	236.9	4.96	99.18	171.3	66.1	75 - 125	246.7	4.06	20	S

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Foster TB
WorkOrder: HS18070608

QC BATCH REPORT

Batch ID: 130444		Instrument: ICS3K2		Method: E300	
MSD	Sample ID: HS18070490-05MSD	Units: mg/Kg		Analysis Date: 17-Jul-2018 05:55	
Client ID:	Run ID: ICS3K2_319902	SeqNo: 4653160		PrepDate: 16-Jul-2018	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	122.8	4.96	99.29	17.74 106	75 - 125 123.1 0.25 20
The following samples were analyzed in this batch:					
HS18070608-01 HS18070608-02					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Parsons Brinckerhoff
Project: Foster TB
WorkOrder: HS18070608

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919 2016-2018	31-Jul-2018
Oklahoma	2017-088	31-Aug-2018
North Carolina	624-2018	31-Dec-2018
Arkansas	88-0356	27-Mar-2019
Kansas	E-10352 2017-218	31-Jul-2018
Texas	T10470231-18-21	30-Apr-2019
North Dakota	R193 2018-2019	30-Apr-2019
Illinois	004438	29-Jun-2019
Louisiana	03087	30-Jun-2019
Dept of Defense	L2231 Rev 3-30-2018	22-Dec-2018
Kentucky	123043 - 2018	30-Apr-2019

Sample Receipt Checklist

Client Name: LBG Addison Texas

Date/Time Received: **13-Jul-2018 08:30**

Work Order: HS18070608

Received by: **JRM**Checklist completed by: Paresh M. Giga
eSignature13-Jul-2018
DateReviewed by: Bernadette A. Fini
eSignature15-Jul-2018
DateMatrices: **Soil**Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐No ☐Not Present ☒

Custody seals intact on sample bottles?

Yes ☐No ☐Not Present ☒

Chain of custody present?

Yes ☒No ☐

Chain of custody signed when relinquished and received?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☐No ☒

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

TX1005 solids received in hermetically sealed vials?

Yes ☐No ☐N/A ☒

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

2.5c/1.9c U/C

IR25

Cooler(s)/Kit(s):

25345

Date/Time sample(s) sent to storage:

7/13/18 15:25

Water - VOA vials have zero headspace?

Yes ☐No ☐No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐No ☐N/A ☒

pH adjusted?

Yes ☐No ☐N/A ☒

pH adjusted by:

Login Notes: **No sampling dates/times on jars**

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:



+1 513 733 5336

+1 970 490 1511

Everett, WA
+1 425 356 2600Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 141027

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+1 281 530 5656Middletown, PA
+1 717 944 5541Spring City, PA
+1 610 948 4903Salt Lake City, UT
+1 801 266 7700South Charleston, WV
+1 304 356 3168York, PA
+1 717 505 5280

Environmental

Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order		Project Name	FOSTER TB	A Chlorides 300													
Work Order		Project Number	3140117-000	B													
Company Name	WSP USA Inc.	Bill To Company		C													
Send Report To	Matthew Boyle	Invoice Attn		D													
Address	2772 N STEMMONS SUITE 1600	Address	Same	E HS18070608 WSP Parsons Brinckerhoff Foster TB													
City/State/Zip	Dallas TX 75207	City/State/Zip		G													
Phone	817 713 0242	Phone		H													
Fax		Fax		I													
e-Mail Address	Matthew.Boyle@wsp.com	e-Mail Address		J													

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	S-2 4'	7-9-18	3:30	Soil	ICE	1	/										
2	S-2 5'	7-9-18	3:35	Soil	ICE	1	/										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:	
Matthew Boyle		FEDEX		☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour					
Relinquished by:	Date:	Time:	Received by:	Notes:					
Matthew Boyle	7-12-18	8:00							
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID					
	7/13/18	08:30	J. M. M. M.	25345					
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Cooler Temp					
				UC					
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				QC Package: (Check One Box Below)					
				☐ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Raw Date ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other					

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25345

JUL 13 2018

ORIGIN ID:DALA (817) 713-0262
MATTHEW BOYLE
2901 SAN GABRIEL CT
FORT WORTH, TX 76118
UNITED STATES US

SHIP DATE: 12JUL18
ACTWGT: 34.00 LB
CAD: 006895676/98FE1904
DIM5: 24x15x13 IN
BILL RECIPIENT

244-10307-903-8800/ESP 03419

TO **ALS LABORATORY**
ALS LABORATORY
10450 STANCLIFF RD STE 210

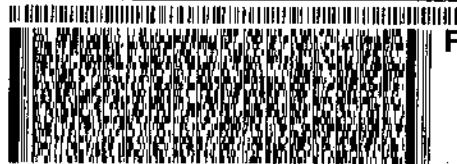
25345

HOUSTON TX 77099

(201) 690-6866

REF:

DEPT:



FedEx
Express



REL#
3786346

TRK# 7818 3402 6297
0201

FRI - 13 JUL 10:30A
PRIORITY OVERNIGHT

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77099

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