January 25, 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

Mr. Bratcher:

WSP USA (WSP), formerly Leggette, Brashears & Graham (LBG) is pleased to submit this work plan to excavate approximately 300 cubic yards of petroleum hydrocarbon and chloride impacted soil from the Percussion Petroleum, LLC (Percussion) Dagger Draw area Foster Tank Battery (TB) oil production facility (Site) in Eddy County, New Mexico (Figure 1). The work plan includes the scope of work, project schedule and approach.

Surface soil 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. A follow-up soil investigation 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). The soils were also impacted with chlorides above the non-published NMOCD guidelines.

The concentrations of chloride observed in the soil preclude the ability to landfarm the soil on-site, or within a larger permitted landfarm off-site without some form of pre-treatment. As a result, the quickest and likely most cost-effective way to handle the soil is to excavate and dispose of the soil at an off-site landfill facility.

This work plan includes the following tasks:

- Project Coordination;
- Oversight and direction of excavation of impacted soils;
- Collection of confirmation samples to verify the impacts have been effectively removed;
- Transport and dispose the soil to an off-site landfill location;
- Import clean backfill and restore the excavation surface area to original grade and compaction and,
- Prepare a letter report summarizing the above described activities.

WSP USA
Formerly
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The excavation, soil disposal, and restoration work will be performed by Dudley Sales & Service (Dudley) of Artesia, New Mexico. R360 Environmental Solutions (R360) will be the disposal facility accepting the soil.

SCOPE OF WORK

The activities discussed above are organized into five primary tasks which are described in more detail below.

Task 1: Project Coordination and Work Plan Preparation

This task includes WSP services to evaluate and define the project scope, coordinate contractor efforts, and provide timely updates to Percussion during the course of the field work.

Task 2: Soil Excavation and Site Restoration

Based on previous soil investigation results, an impacted soil area of approximately 150 feet long by 50 feet wide exists to a depth of approximately 1 foot south of the pad area at the Site. Concentrations of BTEX and TPH in the soil exceed the NMOCD cleanup Guidelines, and the chloride concentrations in the soil exceed the non-published NMOCD guidelines.

This task includes excavation of approximately 300 cubic yards of impacted soil, load and haul the soil to the R360 facility near Hobbs, NM, provide and install clean fill, and restore the surface grade and compaction.

Task 3: Soil Confirmation Sampling

This task includes WSP to collect soil excavation confirmation samples following excavation activities to document that the impacts have been successfully removed. The soil samples will be submitted to ALS Group USA, Corp. in Houston, Texas and will be analyzed for BTEX, TPH and chloride content. Analytical results will be summarized in a letter report documenting that the impacts have been successfully removed (See Task 5 below).

Task 4: Soil Disposal

The two nearest landfills were contacted to determine their ability to accept the impacted soil. Based on the soil analytical results, Lea Land LLC indicated that they could not accept the soil due to the petroleum content. Based on its ability to accept the soil, R360 landfill was chosen for the disposal location.

Task 5: Final Report and Project Closeout

A letter report summarizing the produced water release, previous investigation work, and documenting and confirming the excavation and disposal of the impacted soil will be prepared and submitted to NMOCD. The report will include a Site map showing the extent of the excavation and the location of confirmation soil samples, and a table summarizing the analytical results of the soil confirmation samples.

PROJECT SCHEDULE

WSP can begin coordinating this project immediately after receiving the NMDOC authorization to proceed. A final report will be submitted to NMOCD.

PROJECT APPROACH

Mr. Matthew Boyle will serve as Project Manager and will have the authority to commit whatever resources are necessary to support the project. It will be his responsibility to assure that the project needs are met in terms of scope of work and schedule. One (1) WSP employee will be dispatched to the field to oversee and direct the excavation activities, and to collect soil confirmation samples.

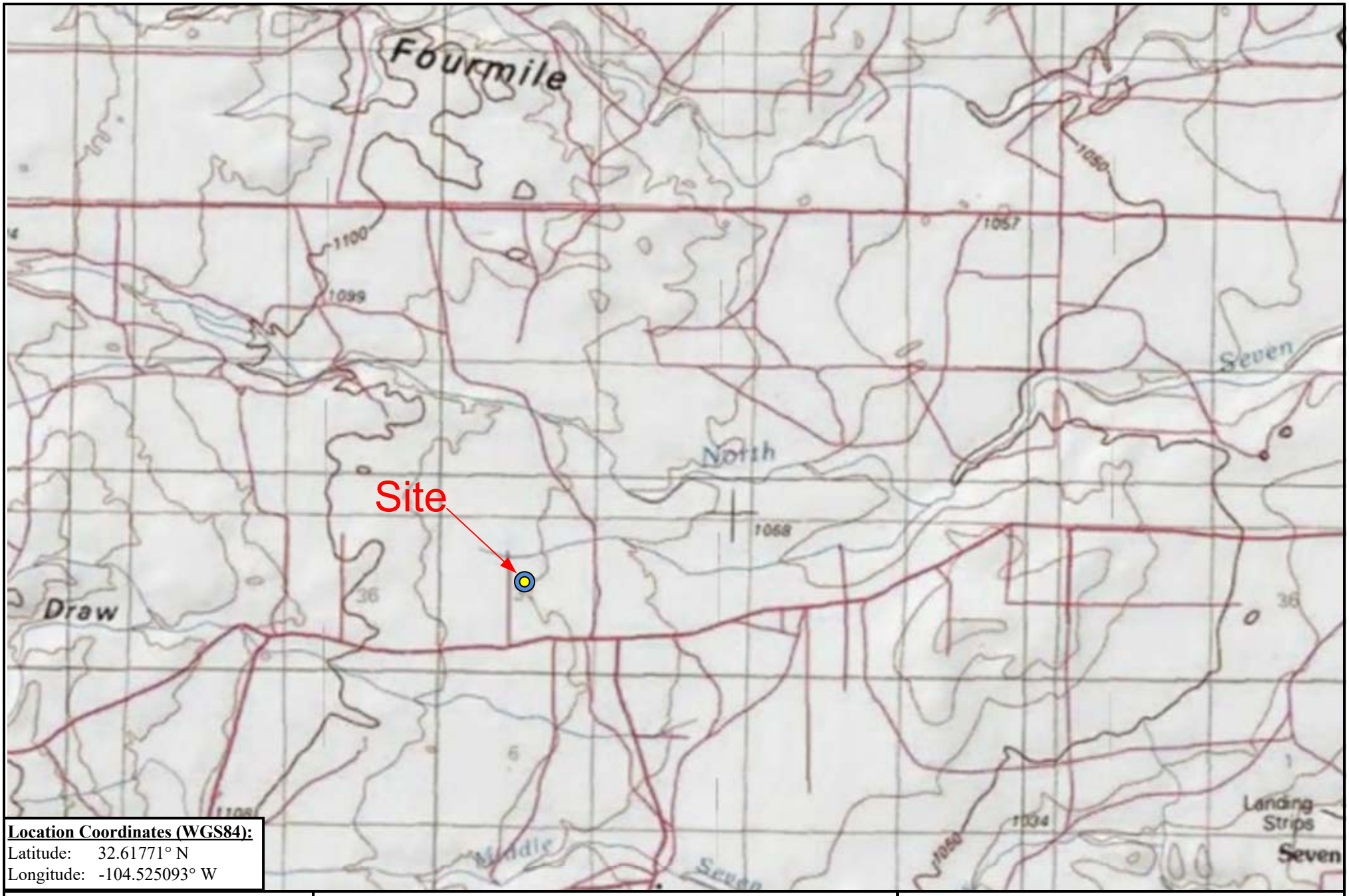
We look forward to receiving approval of this work plan and look forward to working with you on this project.

Sincerely,

Matthew Boyle
Sr. Environmental Scientist

Charles D. Harlan, P.G.
Director, Business Development - Environment

CC :



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

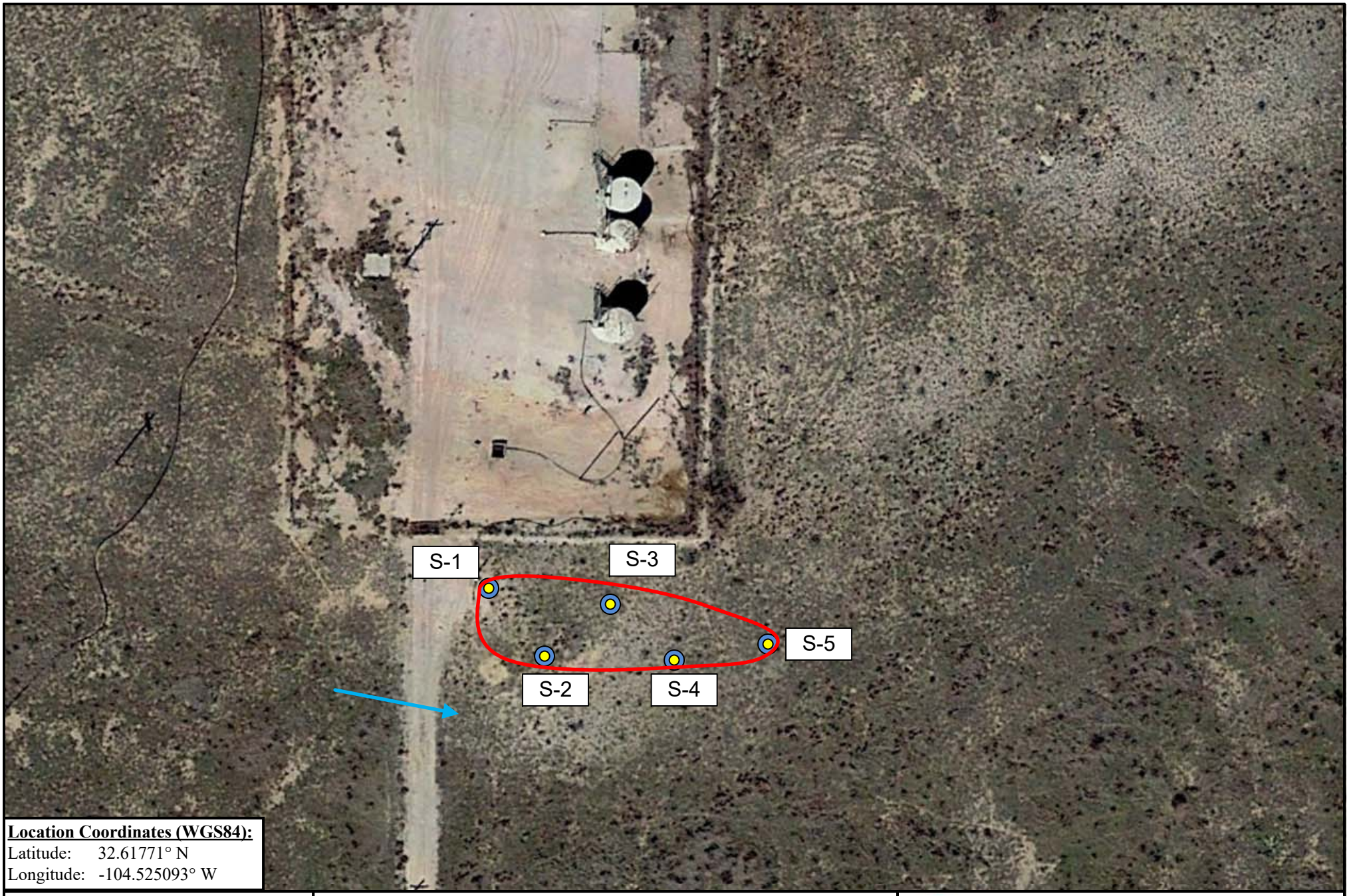
(Source): Google Earth

N

(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

N

(Not to Scale)

wsp

Site Location Map

WSP Project#: 31401117.000	12/7/2017	Figure 2

Table 1

Summary of Soil Sample Analytical Results

Sample ID	Sample Depth	Sample Date	Parameter								
			Chloride mg/kg	C6-C12 mg/kg	C12-C28 mg/kg	C28-C35 mg/kg	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
Action Level			600				5,000	10	50	50	50
SS-1	0.5'	12/6/2017	**10,400**	350	1,200	u	1,550	u	3.5	5.7	15
SS-1	1.0'	12/6/2017	46	u	u	u	u	u	0.014	0.012	0.016
SS-2	0.5'	12/6/2017	**6200**	8900	1,600	u	**24,900**	**49**	**690**	**380**	**190**
SS-2	1.0'	12/6/2017	**2,900**	u	u	u	u	0.023	0.066	0.068	0.180
SS-3	0.5'	12/6/2017	**9,660**	5,400	16,000	1,500	**22,900**	**25**	**210**	**71**	**130**
SS-3	1.0'	12/6/2017	23	u	u	u	u	0.015	0.027	0.018	0.035
SS-4	0.5'	12/6/2017	**3,900**	68	270	u	338	0.040	1.50	5.60	14.00
SS-4	1.0'	12/6/2017	7.8	u	u	u	u	u	0.0051	u	u
SS-5	0.5'	12/6/2017	6.09	u	u	u	u	u	0.014	0.014	0.022
SS-5	1.0'	12/6/2017	6.7	u	u	u	u	u	0.0067	0.0063	0.0083

U - Not Detected - less than Standard Detection Limit

"Action Level" represents the NMOCD Action Levels.

Bold numbers exhibit concentrations above the Action Levels.

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Houston, TX 77099
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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: Jumoke.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
Surr: 1,2-Dichloroethane-d4	*103*		*70-126*	*%REC*	*1*	*14-Dec-2017 19:10*
Surr: 4-Bromofluorobenzene	*97.1*		*73-120*	*%REC*	*1*	*14-Dec-2017 19:10*
Surr: Dibromofluoromethane	*104*		*70-130*	*%REC*	*1*	*14-Dec-2017 19:10*
Surr: Toluene-d8	*101*		*82-121*	*%REC*	*1*	*14-Dec-2017 19:10*
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
Surr: 2-Fluorobiphenyl	*72.4*		*70-130*	*%REC*	*1*	*14-Dec-2017 17:53*
Surr: Trifluoromethyl benzene	*84.7*		*70-130*	*%REC*	*1*	*14-Dec-2017 17:53*
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

SampID	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

SampID	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

SampID	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

SampID	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 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 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 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 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								
Surr: 1,2-Dichloroethane-d4	*2027*	*0*	*2500*	*0*	*81.1*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*2182*	*0*	*2500*	*0*	*87.3*	*83 - 120*				
Surr: Dibromofluoromethane	*2305*	*0*	*2500*	*0*	*92.2*	*80 - 119*				
Surr: Toluene-d8	*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				
Surr: 1,2-Dichloroethane-d4	*46.3*	*0*	*50*	*0*	*92.6*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*47.73*	*0*	*50*	*0*	*95.5*	*83 - 120*				
Surr: Dibromofluoromethane	*48.45*	*0*	*50*	*0*	*96.9*	*80 - 119*				
Surr: Toluene-d8	*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**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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**										
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**										
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**										
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**										
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**										
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**										
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 - 75	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 Quantitaion 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* eSignature 11-Dec-2017 Date
Reviewed by: *Bernadette A. Fini* eSignature 12-Dec-2017 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:

ALS Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 123456

☐ Cincinnati, OH +1 513 733 5336 ☐ Holland, MI +1 616 399 6070 ☐ Salt Lake City, UT +1 801 266 7700
☐ Everett, WA +1 425 356 2600 ☒ Houston, TX +1 281 530 5656 ☐ Spring City, PA +1 610 948 4903
☐ Fort Collins, CO +1 970 490 1511 ☐ Middletown, PA +1 717 944 5541 ☐ York, PA +1 717 505 5280

ALS Project Manager: | Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	Foster TB	A TPH
Work Order		Project Number		B BTEX
Company Name	LBG	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	8177130262	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'	12/6/17	4:10	Soil	Ice	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: Matthew Boyle Matthew Boyle

Shipment Method: FedEx

Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
Matthew Boyle	12-8-17	3:30		
Relinquished by:	Date:	Time:	Received by (Laboratory): Jim 12.8.17 0930	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory): White	0.4c

QC Package: (Check Box Below)
☐ Level II: Standard QC
☐ Level III: Std QC + Raw Data
☐ Level IV: SW846 CLP-Like
☐ Other: _____

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.

14=25
CF=0.3

white DEC 0 9 2017