

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Ben Arguijo
Basin Environmental Services
P.O. Box 301
Lovington, NM 88260

Project: Former Maljamar Station
Project Number: HDO-95-61 Former Maljamar Station
Location: Eddy Co., NM
Lab Order Number: 6A20005



NELAP/TCEQ # T104704156-13-3

Report Date: 02/04/16

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Project Manager: Ben Arguijo

Fax: (505) 396-1429

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sec. C - 16 @ 12' - N. Wall	6A20005-01	Soil	01/19/16 14:10	01-20-2016 17:18
Sec. C - 16 @ 12' - S. Wall	6A20005-02	Soil	01/19/16 14:00	01-20-2016 17:18
Sec. C - 16 @ 12' - E. Wall	6A20005-03	Soil	01/19/16 14:05	01-20-2016 17:18
Sec. C - 16 @ 12' - W. Wall	6A20005-04	Soil	01/19/16 14:15	01-20-2016 17:18
Sec. C - 16 @ 16.5' - Floor	6A20005-05	Soil	01/19/16 14:20	01-20-2016 17:18

Samples from this workorder were cancelled and work halted on all but the last sample. On 2/3/16, a request was made to report BTEX and TPH from the initial four samples and the fifth sample that had been reported for TPH. BTEX was analyzed on the fifth sample, however, the BTEX analysis had not been prepared on those samples. They were prepared and analyzed on 2/3/16 one day outside of the regulatory holding time. The samples had been kept frozen at less than 5 degrees C since receipt, therefore there should be no appreciable affect to the data.

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Sec. C - 16 @ 12' - N. Wall

6A20005-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

I-02

Benzene	ND	0.0222	mg/kg dry	20	P6B0412	02/03/16	02/03/16	EPA 8021B
Toluene	ND	0.0444	mg/kg dry	20	P6B0412	02/03/16	02/03/16	EPA 8021B
Ethylbenzene	ND	0.0222	mg/kg dry	20	P6B0412	02/03/16	02/03/16	EPA 8021B
Xylene (p/m)	ND	0.0444	mg/kg dry	20	P6B0412	02/03/16	02/03/16	EPA 8021B
Xylene (o)	ND	0.0222	mg/kg dry	20	P6B0412	02/03/16	02/03/16	EPA 8021B
Surrogate: 4-Bromofluorobenzene		146 %	75-125		P6B0412	02/03/16	02/03/16	EPA 8021B
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P6B0412	02/03/16	02/03/16	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

% Moisture	10.0	0.1	%	1	P6A2101	01/21/16	01/21/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M
>C12-C28	567	27.8	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M
>C28-C35	65.4	27.8	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M
Surrogate: 1-Chlorooctane		99.6 %	70-130		P6A2102	01/20/16	01/20/16	TPH 8015M
Surrogate: o-Terphenyl		117 %	70-130		P6A2102	01/20/16	01/20/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	633	27.8	mg/kg dry	1	[CALC]	01/20/16	01/20/16	calc

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Sec. C - 16 @ 12' - S. Wall
6A20005-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

I-02

Benzene	ND	0.0222	mg/kg dry	20	P6B0412	02/03/16	02/03/16	EPA 8021B	
Toluene	ND	0.0444	mg/kg dry	20	P6B0412	02/03/16	02/03/16	EPA 8021B	
Ethylbenzene	0.232	0.0222	mg/kg dry	20	P6B0412	02/03/16	02/03/16	EPA 8021B	
Xylene (p/m)	0.455	0.0444	mg/kg dry	20	P6B0412	02/03/16	02/03/16	EPA 8021B	
Xylene (o)	0.130	0.0222	mg/kg dry	20	P6B0412	02/03/16	02/03/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.0 %	75-125		P6B0412	02/03/16	02/03/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P6B0412	02/03/16	02/03/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	10.0	0.1	%	1	P6A2101	01/21/16	01/21/16	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	219	27.8	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M	
>C12-C28	2350	27.8	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M	
>C28-C35	253	27.8	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		92.7 %	70-130		P6A2102	01/20/16	01/20/16	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P6A2102	01/20/16	01/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2820	27.8	mg/kg dry	1	[CALC]	01/20/16	01/20/16	calc	

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Sec. C - 16 @ 12' - E. Wall
6A20005-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

I-02

Benzene	ND	0.00116	mg/kg dry	1	P6B0412	02/03/16	02/03/16	EPA 8021B
Toluene	ND	0.00233	mg/kg dry	1	P6B0412	02/03/16	02/03/16	EPA 8021B
Ethylbenzene	ND	0.00116	mg/kg dry	1	P6B0412	02/03/16	02/03/16	EPA 8021B
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P6B0412	02/03/16	02/03/16	EPA 8021B
Xylene (o)	0.00323	0.00116	mg/kg dry	1	P6B0412	02/03/16	02/03/16	EPA 8021B
Surrogate: 1,4-Difluorobenzene		108 %	75-125		P6B0412	02/03/16	02/03/16	EPA 8021B
Surrogate: 4-Bromofluorobenzene		80.8 %	75-125		P6B0412	02/03/16	02/03/16	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

% Moisture	14.0	0.1	%	1	P6A2101	01/21/16	01/21/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M
>C12-C28	124	29.1	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M
>C28-C35	ND	29.1	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M
Surrogate: 1-Chlorooctane		95.6 %	70-130		P6A2102	01/20/16	01/20/16	TPH 8015M
Surrogate: o-Terphenyl		111 %	70-130		P6A2102	01/20/16	01/20/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	124	29.1	mg/kg dry	1	[CALC]	01/20/16	01/20/16	calc

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Sec. C - 16 @ 12' - W. Wall

6A20005-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

I-02

Benzene	ND	0.00111	mg/kg dry	1	P6B0412	02/03/16	02/03/16	EPA 8021B
Toluene	ND	0.00222	mg/kg dry	1	P6B0412	02/03/16	02/03/16	EPA 8021B
Ethylbenzene	ND	0.00111	mg/kg dry	1	P6B0412	02/03/16	02/03/16	EPA 8021B
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P6B0412	02/03/16	02/03/16	EPA 8021B
Xylene (o)	ND	0.00111	mg/kg dry	1	P6B0412	02/03/16	02/03/16	EPA 8021B
Surrogate: 1,4-Difluorobenzene		105 %	75-125		P6B0412	02/03/16	02/03/16	EPA 8021B
Surrogate: 4-Bromofluorobenzene		142 %	75-125		P6B0412	02/03/16	02/03/16	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

% Moisture	10.0	0.1	%	1	P6A2101	01/21/16	01/21/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M
>C12-C28	130	27.8	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M
>C28-C35	ND	27.8	mg/kg dry	1	P6A2102	01/20/16	01/20/16	TPH 8015M
Surrogate: 1-Chlorooctane		95.9 %	70-130		P6A2102	01/20/16	01/20/16	TPH 8015M
Surrogate: o-Terphenyl		110 %	70-130		P6A2102	01/20/16	01/20/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	130	27.8	mg/kg dry	1	[CALC]	01/20/16	01/20/16	calc

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Sec. C - 16 @ 16.5' - Floor
6A20005-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0227	mg/kg dry	20	P6A2705	01/21/16	01/21/16	EPA 8021B	
Toluene	0.110	0.0455	mg/kg dry	20	P6A2705	01/21/16	01/21/16	EPA 8021B	
Ethylbenzene	0.935	0.0227	mg/kg dry	20	P6A2705	01/21/16	01/21/16	EPA 8021B	
Xylene (p/m)	1.40	0.0455	mg/kg dry	20	P6A2705	01/21/16	01/21/16	EPA 8021B	
Xylene (o)	0.462	0.0227	mg/kg dry	20	P6A2705	01/21/16	01/21/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P6A2705	01/21/16	01/21/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		93.5 %	75-125		P6A2705	01/21/16	01/21/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	12.0	0.1	%	1	P6A2101	01/21/16	01/21/16	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	720	142	mg/kg dry	5	P6A2102	01/20/16	01/20/16	TPH 8015M	
>C12-C28	4660	142	mg/kg dry	5	P6A2102	01/20/16	01/20/16	TPH 8015M	
>C28-C35	395	142	mg/kg dry	5	P6A2102	01/20/16	01/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		121 %	70-130		P6A2102	01/20/16	01/20/16	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P6A2102	01/20/16	01/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	5780	142	mg/kg dry	5	[CALC]	01/20/16	01/20/16	calc	

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6A2705 - General Preparation (GC)

Blank (P6A2705-BLK1)

Prepared & Analyzed: 01/21/16

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0578		"	0.0500		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.0418		"	0.0500		83.5	75-125			

LCS (P6A2705-BS1)

Prepared & Analyzed: 01/21/16

Benzene	0.0872	0.00100	mg/kg wet	0.100		87.2	70-130			
Toluene	0.0879	0.00200	"	0.100		87.9	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.174	0.00200	"	0.200		86.9	70-130			
Xylene (o)	0.106	0.00100	"	0.100		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.0567		"	0.0500		113	75-125			
Surrogate: 1,4-Difluorobenzene	0.0505		"	0.0500		101	75-125			

LCS Dup (P6A2705-BSD1)

Prepared & Analyzed: 01/21/16

Benzene	0.0818	0.00100	mg/kg wet	0.100		81.8	70-130	6.31	20	
Toluene	0.0835	0.00200	"	0.100		83.5	70-130	5.11	20	
Ethylbenzene	0.0967	0.00100	"	0.100		96.7	70-130	4.50	20	
Xylene (p/m)	0.165	0.00200	"	0.200		82.7	70-130	4.96	20	
Xylene (o)	0.101	0.00100	"	0.100		101	70-130	4.83	20	
Surrogate: 1,4-Difluorobenzene	0.0497		"	0.0500		99.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.0559		"	0.0500		112	75-125			

Batch P6B0412 - General Preparation (GC)

Blank (P6B0412-BLK1)

Prepared & Analyzed: 02/03/16

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0648		"	0.0500		130	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.0479		"	0.0500		95.7	75-125			

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6B0412 - General Preparation (GC)

LCS (P6B0412-BS1)

Prepared & Analyzed: 02/03/16

Benzene	0.0881	0.00100	mg/kg wet	0.100		88.1	70-130			
Toluene	0.0992	0.00200	"	0.100		99.2	70-130			
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130			
Xylene (p/m)	0.186	0.00200	"	0.200		92.9	70-130			
Xylene (o)	0.110	0.00100	"	0.100		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.0639		"	0.0500		128	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.0536		"	0.0500		107	75-125			

LCS Dup (P6B0412-BSD1)

Prepared & Analyzed: 02/03/16

Benzene	0.0869	0.00100	mg/kg wet	0.100		86.9	70-130	1.39	20	
Toluene	0.0995	0.00200	"	0.100		99.5	70-130	0.342	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	70-130	3.51	20	
Xylene (p/m)	0.191	0.00200	"	0.200		95.4	70-130	2.75	20	
Xylene (o)	0.117	0.00100	"	0.100		117	70-130	5.92	20	
Surrogate: 1,4-Difluorobenzene	0.0525		"	0.0500		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.0633		"	0.0500		127	75-125			S-GC

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6A2101 - * DEFAULT PREP *****

Blank (P6A2101-BLK1)

Prepared & Analyzed: 01/21/16

% Moisture	ND	0.1	%
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Duplicate (P6A2101-DUP1)

Source: 6A20001-01

Prepared & Analyzed: 01/21/16

% Moisture	4.0	0.1	%	4.0	0.00	20
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Duplicate (P6A2101-DUP2)

Source: 6A20002-04

Prepared & Analyzed: 01/21/16

% Moisture	6.0	0.1	%	6.0	0.00	20
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6A2102 - TX 1005

Blank (P6A2102-BLK1)

Prepared & Analyzed: 01/20/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	94.2		"	100		94.2	70-130			
Surrogate: o-Terphenyl	54.4		"	50.0		109	70-130			

LCS (P6A2102-BS1)

Prepared & Analyzed: 01/20/16

C6-C12	832	25.0	mg/kg wet	1000		83.2	75-125			
>C12-C28	881	25.0	"	1000		88.1	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	47.6		"	50.0		95.3	70-130			

LCS Dup (P6A2102-BSD1)

Prepared & Analyzed: 01/20/16

C6-C12	798	25.0	mg/kg wet	1000		79.8	75-125	4.09	20	
>C12-C28	834	25.0	"	1000		83.4	75-125	5.53	20	
Surrogate: 1-Chlorooctane	97.1		"	100		97.1	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.5	70-130			

Matrix Spike (P6A2102-MS1)

Source: 6A19007-02

Prepared & Analyzed: 01/20/16

C6-C12	1190	27.5	mg/kg dry	1100	20.4	107	75-125			
>C12-C28	1980	27.5	"	1100	1130	77.1	75-125			
Surrogate: 1-Chlorooctane	145		"	110		132	70-130			S-GC
Surrogate: o-Terphenyl	66.3		"	54.9		121	70-130			

Matrix Spike Dup (P6A2102-MSD1)

Source: 6A19007-02

Prepared & Analyzed: 01/20/16

C6-C12	1130	27.5	mg/kg dry	1100	20.4	101	75-125	5.68	20	
>C12-C28	1870	27.5	"	1100	1130	67.6	75-125	13.1	20	QM-05
Surrogate: 1-Chlorooctane	137		"	110		125	70-130			
Surrogate: o-Terphenyl	63.7		"	54.9		116	70-130			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
I-02	This result was analyzed outside of the EPA recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:



Date:

2/4/2016

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 1 of 1

10014 SCR 1213
Midland, Texas 79706

Phone: 432-686-7235

Project Manager: Ben J. Arguilo

Project Name: Former Maljamar Station

Company Name: Basin Environmental Service Technologies, LLC

Project #: HDO-95-61 Former Maljamar Station

Company Address: P.O. Box 301

Project Loc: Eddy Co., NM

City/State/Zip: Lovington, NM 88260

PO #: PAA-C. Bryant

Telephone No: (575)396-2378

Fax No: (575) 396-1429

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

Sampler Name: Billy Blackwood

e-mail: pm@basinenv.com, cjbryant@paalp.com

(lab use only)

ORDER #: 6A20005

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix	TPH (8015M)	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Chloride	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	TCLP Benzene	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
1	Sec. C - 16 @ 12' - N. Wall	12'		1/19/2016	1410		1	X									Soil	X												X	
2	Sec. C - 16 @ 12' - S. Wall	12'		1/19/2016	1400		1	X									Soil	X												X	
3	Sec. C - 16 @ 12' - E. Wall	12'		1/19/2016	1405		1	X									Soil	X												X	
4	Sec. C - 16 @ 12' - W. Wall	12'		1/19/2016	1415		1	X									Soil	X												X	
5	Sec. C - 16 @ 16.5' - Floor	16.5'		1/19/2016	1420		1	X									Soil	X												X	

Special Instructions:

1. Run BTEX on all samples with TPH <= 5,000 (Standard TAT).
2. RUSH. Call with results upon availability.
3. Charge rush fees to Basin.

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