

#### **Electronic Correspondence**

June 22, 2015

Mike Bratcher State of New Mexico Oil Conservation Division 811 S. 1st Street Atresia, NM 88210 mike.bratcher@state.nm.us

Re: **Assessment Corrective Action Plan** Memorial Resource Development, KLM Battery - RP No.: Pending API No.: 30-025-28421 Legal: Sec 31, T17S, R30E - Eddy Co., NM GPS: 32.791267, -104.012383 Depth to Groundwater: No Groundwater in this area Release Type: Crude Oil Contaminants of Concern (COC's) Threshold Levels Total Petroleum Hydrocarbons (TPH) 5000 mg/kg Benzene 10 mg/kg BTEX 50 mg/kg

Dear Mike:

Etech Environmental & Safety Solutions, Inc. (Etech) is pleased to submit the following corrective action plan on the aforementioned site for your review and approval.

#### Background

The release occurred due to failure of a circulating pump in its ability to hold back fluid. The fluid overflowed its containment around the pump and migrated approximately 200 feet on the lease road before pooling adjacent to a county road. All free standing liquids were removed and the areas assessed. A small amount of pasture areas (less than 800 SF) was impacted. A copy of the initial C-141 is provided in Attachment A. An annotated aerial photograph showing the release area and TPH levels is provided In Attachment B. Photographs of the release area are provided in Attachment C.

#### Scope of Work

The scope of this project is for the remediation of a hydrocarbon impact. After discussion with the BLM and NMOCD the BLM verbally approved a technical approach for remediation involving the maximum of resource conservation. Completion of remediation will involve the following actions:

- 1. Placement of a one-call for utility location.
- 2. Analytical data has indicated that the surface interval of the impacted area is above regulatory threshold levels. All other areas are below corrective action goals. The soils on the road will be graded to ensure they are uniform and that there are no free phase hydrocarbons and that they

are below corrective action levels. Copies of analytical data from the assessment are provided in Attachment D.

- 3. Pasture impacts will be remediated using a biological amendment and blending the amendment with the surface soils.
- 4. Confirmation samples will be collected from the sampling points established during the assessment and one additional area in the pasture to and verify the treated areas are below corrective action levels.

#### **Notifications and Special Conditions**

- 1. The BLM and NMOCD will be notified prior to the commencement of on-site operations.
- 2. The OCD will be notified prior to each sampling event to allow the opportunity to witness the sampling events. Splits will be made available if requested.
- 3. The SLO and OCD will be notified when the site is closed for final inspection prior to seeding.
- 4. A final report documenting the closure of the site will be submitted along with a final C-141 to SLO and OCD.

Thank you for your assistance on this matter. Should you have any questions, require additional information, or have any additional stipulations for this site, please contact Kit Prichard or myself at (432) 563-2200 (office) or via email at <u>fred@etechenv.com</u>, or <u>Kit@etechenv.com</u>.

Respectfully:

Tel Holmen

Fred Holmes Principal Environmental Professional

Cc: <a href="mailto:stucker@blm.gov">stucker@blm.gov</a>

Attachment A Initial C-141

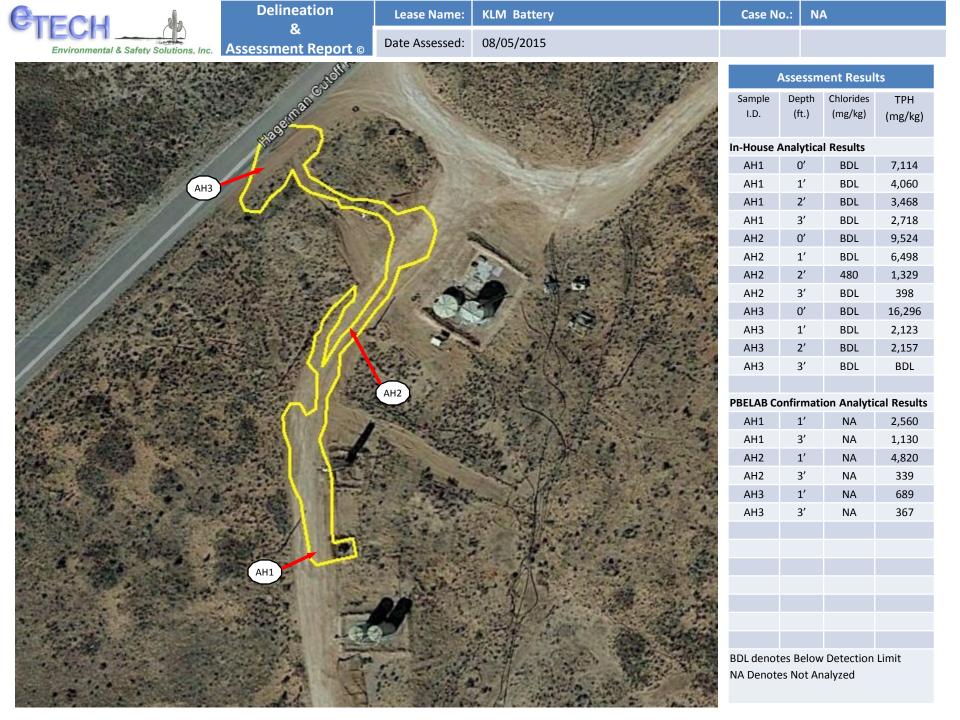
Form C-141 Revised August 8, 2011 Copy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

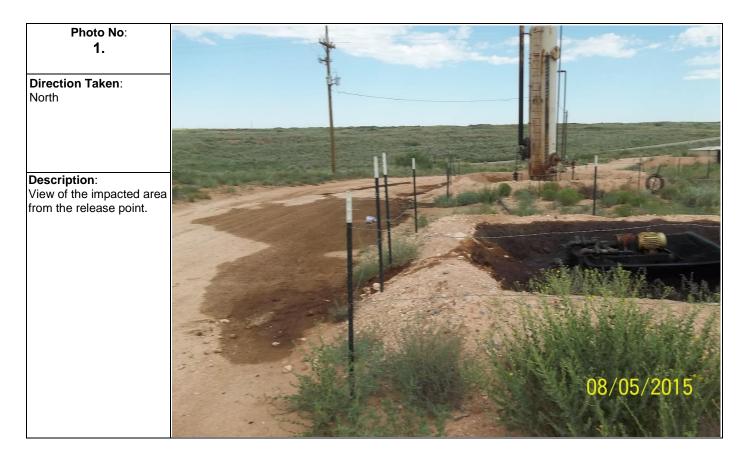
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			Rele	ease Notific	catio	n and Co	orrective A	.ction	_			
						<b>OPERA</b>	ГOR	Initial	l Report	X	Final Report	
Name of Co	mpany M	emorial Produc	tion Operat	ing LLC		Contact H	eather Dolphin	hannan d	I		pon	
Address 5	0 Dallas Str	eet, Suite 1800	, Houston,	TX 77002			No. 832-797-1334	4				
Facility Nat						Facility Typ						
Surface Ow	ner			Mineral C	Dwner			API No.	API No. 30-015-04411			
				LOC	<b>ATIO</b>	N OF REI	FASE				<u></u>	
Unit Letter	Section	Township	Range	Feet from the		VSouth Line	Feet from the	East/West Line	County			
	31	17S	30E						Eddy			
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			La	titude_32°47'28.	56"N	Longitud	le 104° 0'44.58"W					
				NAT	TURE	OF REL		· · · · · · · · · · · · · · · · · · ·				
Type of Rele								23bbls PWVolume R				
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was minicui			Yes 🗌	No 🗌 Not R	equired		s, BLM & Heather F	Patterson, NMOCD				
		Iphin Sr. Regula	atory Speci	alist			Jour 8/2/15 4:17p					
Was a Water	course Read					If YES, Vo		· · · · · · · · · · · · · · · · · · ·				
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Describe Are	a Affected	and Cleanup A	Action Tak									
100ftx1ft all	the way dow	n to the County	Road 217	were it puddled 2ft	x4ft.V	acuumed up all	free standing liquid	, then the pumper spr	read dirt over	the spi	ll on the asphalt	
				to give us some dir				· · · ·			coprion.	
				-		-						
I hereby cert	fy that the i	information gi	iven above	is true and comp	lete to	the best of my	knowledge and u	inderstand that purs	uant to NM	OCD ri	ules and	
regulations a	I operators	are required to	o report ar	d/or file certain r	release	notifications a	nd perform correct	ctive actions for rele teport" does not relie	ases which	may er	ndanger	
should their of	operations h	ave failed to a	adequately	investigate and r	remedia	te contaminat	ion that pose a thr	reat to ground water,	surface wa	ator or iter hui	naoniny man bealth	
or the enviro	nment. In a	ddition, NMC	CD accep	tance of a C-141	report	does not reliev	e the operator of	responsibility for co	mpliance w	ith any	/ other	
federal, state	or local lav	ws and/or regu	lations.				-		-			
		1					<u>OIL CON</u>	SERVATION	DIVISIC	<u>)N</u>		
Signature: W	<u> </u>	t	$\bigcirc$	$\checkmark$	•							
Dubits of Nierro	Heathe	r Dolphin				Approved by	Environmental S	pecialist:				
Printed Name				· · · · · · · · · · · · · · · · · · ·								
Title: Sr. R	egulatory S	pecialist				Approval Da	te:	Expiration I	Date:			
E-mail Addro	ess: heath	er.dolphin@n	nemorialrd	.com		Conditions o	f Approval:		A 441- 1			
Date: 08/3/2	2015		Phone	832-797-1334					Attached			
			1 10116,						1			

\* Attach Additional Sheets If Necessary

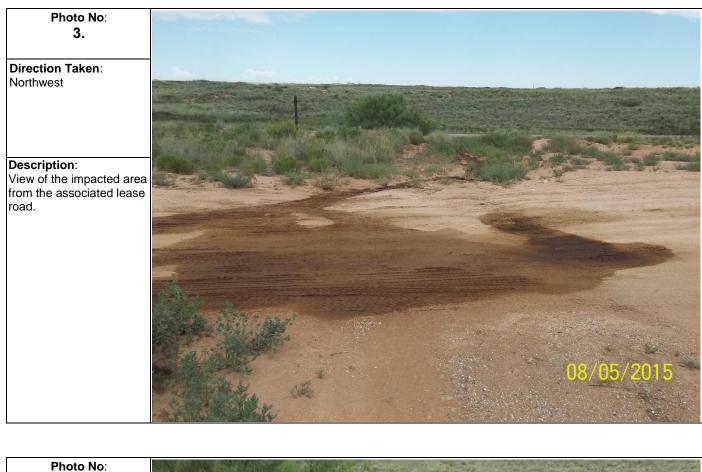
# Attachment B Annotated Aerial Imagery



Attachment C Photograph Log



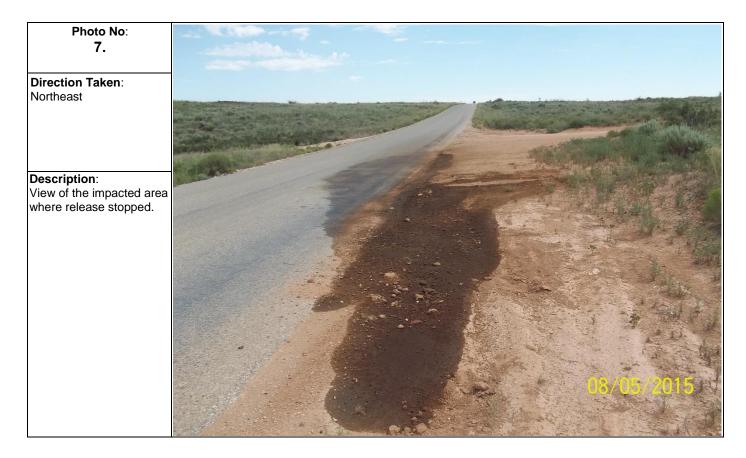




# 4. Direction Taken: Northwest

**Description**: View of the impacted area in pasture land.



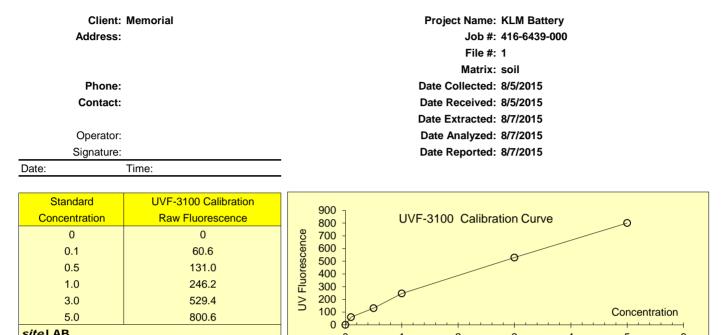


# Attachment D Analytical Results

		Quan	tab Chlo	ride Test	Strip Anal	lysis Sheet
Date:	8/6/2015	Client:	MEMORIAL			
Site:	KLM BATTERY			Pro	ject Number:	416-6439
Technican:	BB			Strip Lo	t Number(s):	
Sample ID		Titrator Range	Dilution	Test Strip Result (ppm)	Final Result (ppm)	Notations
AH 1 SUF	RFACE		10	BDL	#VALUE!	
1'			10	BDL	#VALUE!	
2'			10	BDL	#VALUE!	
3'			10	BDL	#VALUE!	
AH 2 SU	RFACE		10	BDL	#VALUE!	
1'			10	BDL	#VALUE!	
2'			10	48.0	480.00	
3'			10	BDL	#VALUE!	
AH 3 SU	RFACE		10	BDL	#VALUE!	
1'			10	BDL	#VALUE!	
2'			10	BDL	#VALUE!	
3'			10	BDL	#VALUE!	
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Titrator Range: A= 30-600 B=300-6000 ppm Soil Sample Volume: 10 Grams Distilled Water Volume = 100 ml

# **Extended Diesel Range Organic Hydrocarbons Analysis Report** site LAB® EDRO C10-C40 Aromatics in Soil, Sediment & Water



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Calibration Product #: CAL-042 Units (ppm or mg/Kg): ppm

site LAB

Linearity = 0.995

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UVF	Sample ID &	UVF Raw	Test Sample	Dilution	Test R	esult:
Run#:	Description	Fluorescence	Concentration	Factor		
			(ppm)			
1	AH 1 SURFACE	605.00	3.557	2,000	7,114.0	ppm
2	AH 1 1'	673.10	4.06	1,000	4,060.0	ppm
3	AH 1 2'	592.90	3.468	1,000	3,468.0	ppm
4	AH 1 3'	489.50	2.718	1,000	2,718.0	ppm
5	AH 2 SURFACE	768.30	4.762	2,000	9,524.0	ppm
6	AH 2 1'	563.10	3.249	2,000	6,498.0	ppm
7	AH 2 2'	292.80	1.329	1,000	1,329.0	ppm
8	AH 2 3'	113.00	0.398	1,000	398.0	ppm
9	AH 3 SURFACE	675.10	4.074	4,000	16,296.0	ppm
10	AH 3 1'	405.10	2.123	1,000	2,123.0	ppm
11	AH 3 2'	410.10	2.157	1,000	2,157.0	ppm
12	AH 3 3'	38.37	0.063	10,000	Concentration	Too Low (ND)
13		1.00	1	1	1.0	ppm
14		1.00	1	1	1.0	ppm
15		1.00	1	1	1.0	ррт
16		1.00	1	1	1.0	ppm
17		1.00	1	1	1.0	ppm
18		1.00	1	1	1.0	ppm
19		1.00	1	1	1.0	ppm
20		1.00	1	1	1.0	ppm

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



# Analytical Report

# **Prepared for:**

Brandon Wilson E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa, TX 79765

> Project: KLM Battery Project Number: 416-6439-000 Location: Memorial

Lab Order Number: 5H11009



NELAP/TCEQ # T104704156-13-3

Report Date: 08/20/15

E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765

#### Project: KLM Battery Project Number: 416-6439-000 Project Manager: Brandon Wilson

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH1 @ 1'	5H11009-01	Soil	08/05/15 00:00	08-11-2015 10:16
AH1 @ 3'	5H11009-02	Soil	08/05/15 00:00	08-11-2015 10:16
AH2 @ 1'	5H11009-03	Soil	08/05/15 00:00	08-11-2015 10:16
AH2 @ 3'	5H11009-04	Soil	08/05/15 00:00	08-11-2015 10:16
AH3 @ 1'	5H11009-05	Soil	08/05/15 00:00	08-11-2015 10:16
AH3 @ 3'	5H11009-06	Soil	08/05/15 00:00	08-11-2015 10:16

#### AH1 @ 1' 5H11009-01 (Soil)

			009 01 (501	-)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin H	nvironmen	tal Lab, I	L. <b>P.</b>				
General Chemistry Parameters by EPA	A / Standard Methods	5							
% Moisture	1.0	0.1	%	1	P5H1301	08/13/15	08/13/15	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	5M							
C6-C12	64.9	25.3	mg/kg dry	1	P5H1304	08/12/15	08/13/15	TPH 8015M	
>C12-C28	1860	25.3	mg/kg dry	1	P5H1304	08/12/15	08/13/15	TPH 8015M	
>C28-C35	632	25.3	mg/kg dry	1	P5H1304	08/12/15	08/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		69.8 %	70-1.	30	P5H1304	08/12/15	08/13/15	TPH 8015M	S-GC
Surrogate: o-Terphenyl		85.3 %	70-1.	30	P5H1304	08/12/15	08/13/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2560	25.3	mg/kg dry	1	[CALC]	08/12/15	08/13/15	calc	

## AH1 @ 3'

#### 5H11009-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environmen	tal Lab,	L.P.				
General Chemistry Parameters by EPA /	Standard Methods	5							
% Moisture	2.0	0.1	%	1	P5H1301	08/13/15	08/13/15	% calculation	
<u>Total Petroleum Hydrocarbons C6-C35 h</u>	y EPA Method 801	15M							
C6-C12	36.9	25.5	mg/kg dry	1	P5H1304	08/12/15	08/14/15	TPH 8015M	
>C12-C28	786	25.5	mg/kg dry	1	P5H1304	08/12/15	08/14/15	TPH 8015M	
>C28-C35	308	25.5	mg/kg dry	1	P5H1304	08/12/15	08/14/15	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-1.	30	P5H1304	08/12/15	08/14/15	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-1.	30	P5H1304	08/12/15	08/14/15	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	1130	25.5	mg/kg dry	1	[CALC]	08/12/15	08/14/15	calc	

## AH2 @ 1'

#### 5H11009-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin H	Invironmen	tal Lab,	L.P.				
General Chemistry Parameters by EPA	/ Standard Methods	5							
% Moisture	5.0	0.1	%	1	P5H1301	08/13/15	08/13/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 801	5M							
C6-C12	ND	132	mg/kg dry	5	P5H1304	08/12/15	08/13/15	TPH 8015M	
>C12-C28	3840	132	mg/kg dry	5	P5H1304	08/12/15	08/13/15	TPH 8015M	
>C28-C35	979	132	mg/kg dry	5	P5H1304	08/12/15	08/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		58.3 %	70-1.	30	P5H1304	08/12/15	08/13/15	TPH 8015M	S-GC
Surrogate: o-Terphenyl		72.2 %	70-1.	30	P5H1304	08/12/15	08/13/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	4820	132	mg/kg dry	5	[CALC]	08/12/15	08/13/15	calc	

## AH2 @ 3'

#### 5H11009-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin H	Environmen	tal Lab,	L.P.				
General Chemistry Parameters by EPA	/ Standard Methods	1							
% Moisture	4.0	0.1	%	1	P5H1301	08/13/15	08/13/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 801	5M							
C6-C12	ND	26.0	mg/kg dry	1	P5H1304	08/12/15	08/13/15	TPH 8015M	
>C12-C28	252	26.0	mg/kg dry	1	P5H1304	08/12/15	08/13/15	TPH 8015M	
>C28-C35	87.0	26.0	mg/kg dry	1	P5H1304	08/12/15	08/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		57.6 %	70-1.	30	P5H1304	08/12/15	08/13/15	TPH 8015M	S-GC
Surrogate: o-Terphenyl		75.9 %	70-1.	30	P5H1304	08/12/15	08/13/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	339	26.0	mg/kg dry	1	[CALC]	08/12/15	08/13/15	calc	

## AH3 @ 1'

#### 5H11009-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Environmen	tal Lab,	L.P.				
General Chemistry Parameters by EPA	A / Standard Methods	8							
% Moisture	6.0	0.1	%	1	P5H1301	08/13/15	08/13/15	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	5M							
C6-C12	ND	26.6	mg/kg dry	1	P5H1403	08/13/15	08/13/15	TPH 8015M	
>C12-C28	530	26.6	mg/kg dry	1	P5H1403	08/13/15	08/13/15	TPH 8015M	
>C28-C35	159	26.6	mg/kg dry	1	P5H1403	08/13/15	08/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		65.9 %	70-1.	30	P5H1403	08/13/15	08/13/15	TPH 8015M	S-GC
Surrogate: o-Terphenyl		84.2 %	70-1.	30	P5H1403	08/13/15	08/13/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	689	26.6	mg/kg dry	1	[CALC]	08/13/15	08/13/15	calc	

### AH3 @ 3'

#### 5H11009-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		ian Rasin I	Environmen	tal Lah					
General Chemistry Parameters by EPA					L.I.				
% Moisture	8.0	0.1	%	1	P5H1301	08/13/15	08/13/15	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	15M							
C6-C12	ND	27.2	mg/kg dry	1	P5H1403	08/13/15	08/13/15	TPH 8015M	
>C12-C28	301	27.2	mg/kg dry	1	P5H1403	08/13/15	08/13/15	TPH 8015M	
>C28-C35	66.8	27.2	mg/kg dry	1	P5H1403	08/13/15	08/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		65.0 %	70-1.	30	P5H1403	08/13/15	08/13/15	TPH 8015M	S-GC
Surrogate: o-Terphenyl		82.2 %	70-1.	30	P5H1403	08/13/15	08/13/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	367	27.2	mg/kg dry	1	[CALC]	08/13/15	08/13/15	calc	

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### Permian Basin Environmental Lab, L.P.

		D (		0.1	0		A/DEC		DDD	
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5H1301 - % Solids										
Blank (P5H1301-BLK1)	Prepared & Analyzed: 08/13/15									
% Moisture	ND	0.1	%							
Duplicate (P5H1301-DUP1)	Sourc	e: 5H11005-01		Prepared &	Analyzed:	08/13/15				
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P5H1301-DUP2)	Sourc	e: 5H11009-03		Prepared &	Analyzed:	08/13/15				
% Moisture	4.0	0.1	%		5.0			22.2	20	
Duplicate (P5H1301-DUP3)	Sourc	e: 5H12009-08	Prepared &	Analyzed:	08/13/15					
% Moisture	5.0	0.1	%		5.0			0.00	20	

#### Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

#### Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5H1403 - TX 1005										
Blank (P5H1403-BLK1)				Prepared &	Analyzed:	08/13/15				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	71.8		"	100		71.8	70-130			
Surrogate: o-Terphenyl	45.0		"	50.0		90.0	70-130			
LCS (P5H1403-BS1)				Prepared &	Analyzed:	08/13/15				
C6-C12	857	25.0	mg/kg wet	1000		85.7	75-125			
>C12-C28	999	25.0		1000		99.9	75-125			
Surrogate: 1-Chlorooctane	92.1		"	100		92.1	70-130			
Surrogate: o-Terphenyl	46.5		"	50.0		93.1	70-130			
LCS Dup (P5H1403-BSD1)				Prepared &	Analyzed:	08/13/15				
C6-C12	873	25.0	mg/kg wet	1000		87.3	75-125	1.86	20	
>C12-C28	1100	25.0	"	1000		110	75-125	9.58	20	
Surrogate: 1-Chlorooctane	99.7		"	100		99.7	70-130			
Surrogate: o-Terphenyl	48.1		"	50.0		96.2	70-130			

#### **Notes and Definitions**

S-GC	Surrogate recovery of	outside of control limits	The data was accer	nted based on valid recov	ery of the remaining surrogate.

- 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

Report Approved By:

Dup Duplicate

Sun Barron

Date: 8/20/2015

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

Permian Basin Environmental Lab, L.P.

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Standard TAT	RUSH TAT (Pre-Schedule) 24,		I.O.R.M.	BTEX 8021B/5030 or BTEX 826		/oiatiles	/letals: As Ag Ba Cd Cr Pb Hg S	SAR / ESP / CEC	Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3)	PH: 418.1 8015M) 1005 100	NP≕Non-Potable Specify Other	GW = Groundwater S=Soii/Solid	DW=Drinking Water SL=Siudge	None Other ( Specify)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> None	NaOH	H₂SO₄	HCI	HNO <sub>3</sub>		No. of Containers	Time Sampled	Date Sampled				FIELD CODE	FIELD		AB # (lab use only)
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