

**Electronic Correspondence** 

October 27, 2015

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

Re: Corrective Action Plan- 2RP-3261

Memorial Production Operating, NSLU #69

Legal: Unit O, Sec 25, T16S R30E, Eddy County, NM Latitude/Longitude: 32.888980/ -103.923224

Etech Proj. Number: 416-6562-000 Depth to Groundwater: >300 feet Release Type: Produced Water

Contaminants of Concern (COC's) Threshold Levels
Chlorides 1000 mg/kg

Sillottues 1000 flig/ kg

SAR <12

#### Dear Mike:

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

#### **Background**

On September 13<sup>th</sup>, 2015 a leak was discovered and reported from the NSLU #51 & #69 injection line. The injection line failed to due corrosion releasing fluid into the pasture. Approximately 20 barrels of produced water was released; no fluid was able to be recovered. An assessment of the site was conducted on September 22, 2015 by Etech. The release flowed east from the line for approximately from the wellhead for approximately 90 feet and was approximately 14 feet wide. The impacted area affected approximately 1,300 square feet of surface area.

An initial sampling was conducted of the impacted area on September 22, 2015. Samples were collected from the first 10 feet in two (2) locations of the impacted area. Note: All of the samples were collected from low areas to present a "worse case" basis. The samples were sent for laboratory analyses for TPH and Chlorides. The results of analyses determined that TPH values ranged from non-detect to 225 mg/kg. Chloride levels ranged from 184 mg/kg to 8,250 mg/kg. A copy of the assessment sheet and the analytical results are attached.

#### Scope of Work

The corrective action for this site will be to treat the top three feet of impacted soil with DeSalt Plus to lower the chloride and sodium levels in the root zone. Depth to groundwater in the area is greater than

300 feet. Therefore, the corrective action goals for this project will be 1,000 mg/kg of chlorides. The levels of TPH found from the assessment are below action levels for this project. The particulars for remediation will involve the actions summarized as follows:

- 1. Placement of a one-call for utility location.
- The first eighteen inches of soil will be mechanically tilled to break up the soil. The impacted area will then be treated with a mixture of DeSalt and fresh water. The impacted area will then be blended again.
- Once screening determines the remediation objectives have been reached, confirmation samples will be collected from the remediation to confirm that remediation goals have been reached.
- 4. If the results of analysis indicate that the chloride levels are above regulatory threshold levels, additional treatment will be performed until the remediation objectives are met.
- **5.** The site will be seeded with BLM #2. Seeding will take place when the seasonal conditions are conducive to maximizing the potential for seed germination. Actual seeding will be accomplished by broadcast or drilling; whichever is the most practical for the site.

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

- 1. The OCD and BLM will be notified prior to the commencement of on-site operations.
- 2. The OCD and BLM 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. Prior to seeding, the OCD and BLM will be notified when the site is closed for final inspection.
- 4. A final report documenting the closure of the site will be submitted along with a final C-141.

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 me at (432) 563-2200 (office) or via email at <a href="mailto:tim@etechenv.com">tim@etechenv.com</a>.

Respectfully:

Tim McMinn

cc: Heather Patterson, NMOCD Division 2 Office Shelly Tucker, BLM Carlsbad District Office

# Attachment A Initial C-141

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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.

			Rele	ease Notific	ation	and Co	rrective A	ction		
		7389		3039	100	OPERAT	OR	X Initia	l Report	Final Report
Name of Co	_ <del>``</del>						ather Dolphin			
Address 500		·					lo. 832-797-13	34		
Facility Nan	ne North S	Square Lake	Unit (clos	sest well #69)	1 1	acility Typ	e Well			
Surface Own	ner			Mineral C	wner B	LM		API No	. 30-015-0	3925
				LOCA	TION	OF REI	EASE			
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	East/West Line	County	
0	25	16S	30E						Eddy	
		<b></b>	La	titude32°53'1			e103°55'22.2	0"W	•	
				NAT	URE	OF RELI		1		
Type of Release							Release 20bbls		Recovered (	
Source of Rel						If YES, To		e9/13/15Date and	Hour of Dis	covery 2pm
Was minicula	ite monee c		Yes [	No 🔲 Not R	equired			) / Art Arias, BLN	1	
By Whom? H	leather Do	olphin					our 09/14/2015		· · · · · · · · · · · · · · · · · · ·	
Was a Water	course Read			_		If YES, Vo	lume Impacting t	he Watercourse.	NAGO	
		L	Yes 🗵	j No		n/a			I AIAI OI	L CONSERVATIO
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*						RTESIA DISTRICT
n/a									S	SEP 1 4 2015
										RECEIVED
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*						VECTIVED
Underground	l injection	line develop	ed hole b	etween NSLU #	51 & NS	SLU #69. Lir	ie was dug up a	ınd repaired.		
Describe Are	a Affected	and Cleanup	Action Tal	ken.*						
Off location	(along side	e lease road	and into	pasture)						
40ft. x 2ft wi	th a 12' pu	ıddle - unre	coverable	•						
regulations al public health should their o	II operators or the envi operations h nment. In a	are required ronment. The nave failed to addition, NMC	to report a e acceptan adequatel OCD acce	nd/or file certain ce of a C-141 rep y investigate and	release ne ort by the remediate	otifications a NMOCD m contaminat	nd perform correction that pose a three operator of the operator of	responsibility for	leases which lieve the ope er, surface w compliance	n may endanger erator of liability rater, human health with any other
Signature:		L	0_	1			OIL CON	SERVATION / /	DIVISI	
Printed Name	: Heather	Dolphin				Approved by	Environmental S	Specialist:	1/2	
Title: Sr. Re						Approval Da	te: 9 18 15	Expiration	Date:	A
E-mail Addre	ess: heathe	er.dolphin@ı	memorial	rd.com		Conditions o	f Approval:		Attache	d 🔲
Date: 9/14/1	5		Phone	832-797-1334	Ren	nediation	per O.C.D. R	ules & Guidel	1	
Attach Addi	tional She	ets If Neces	sary			BMIT REN		ROPOSAL NO	)	2RP-326

LATER THAN:\_\_\_

# Attachment B Annotated Aerial Imagery



Delineation & Assessment Report ©

Lease Name:

NSLU 51 & 69 Inj Line

Case No.:

416-6562

Date Assessed: September 28 & October 7, 2015



Asses	sment	Results
Sample I.D.	Depth (ft.)	Chlorides (mg/kg)
AH 1	0"	4310
AH 1	1	5130
AH 1	2	4500
AH 1	3	6030
AH 1	4	6040
AH 1	5	2840
AH 1	6	3500
AH 1	7	1820
AH 1	8	3130
AH 1	9	573
AH 1	10	594
AH 2	0"	1440
AH 2	1	ND
AH 2	2	24
AH 2	3	ND
AH 2	4	23.5
AH 2	5	820
AH 2	6	289

## Attachment C Photograph Log

Photo No:
1.
Direction Taken:

North

**Description**: View of the impacted area.

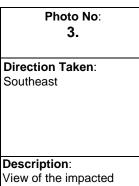


Photo No:

**Direction Taken**: Northeast

**Description**: View of the impacted area.





area.





# Attachment D Analytical Results

# 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: NSLU INJ #69
Project Number: 416-6562
Location: Memorial

Lab Order Number: 5I29004



NELAP/TCEQ # T104704156-13-3

Report Date: 10/06/15

E Tech Environmental & Safety Solutions, Inc.

Project: NSLU INJ #69
Project Number: 416-6562
Project Manager: Brandon Wilson

13000 West County Road 100 Odessa TX, 79765

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH 1 0"	5129004-01	Soil	09/24/15 14:15	09-29-2015 10:00
AH 1 2'	5129004-02	Soil	09/24/15 14:20	09-29-2015 10:00
AH 1 4'	5129004-03	Soil	09/24/15 14:26	09-29-2015 10:00
AH 1 6'	5129004-04	Soil	09/24/15 14:32	09-29-2015 10:00
AH 2 0"	5129004-05	Soil	09/24/15 14:40	09-29-2015 10:00
AH 2 2'	5129004-06	Soil	09/24/15 14:44	09-29-2015 10:00
AH 2 4'	5129004-07	Soil	09/24/15 14:50	09-29-2015 10:00
AH 2 6'	5129004-08	Soil	09/24/15 14:55	09-29-2015 10:00

13000 West County Road 100 Project Number: 416-6562
Odessa TX, 79765 Project Manager: Brandon Wilson

## AH 1 0'' 5I29004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Environment	al Lab,	L.P.				
<b>General Chemistry Parameters by EPA</b>	A / Standard Method	s							
Chloride	4310	26.9	mg/kg dry	25	P5I3003	09/30/15	09/30/15	EPA 300.0	
% Moisture	7.0	0.1	%	1	P5J0101	10/01/15	10/01/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	5 by EPA Method 80	15M							
C6-C12	ND	26.9	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
>C12-C28	187	26.9	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
>C28-C35	37.4	26.9	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
Surrogate: 1-Chlorooctane		92.8 %	70-13	0	P5I3001	09/29/15	09/30/15	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-13	0	P5I3001	09/29/15	09/30/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	225	26.9	mg/kg dry	1	[CALC]	09/29/15	09/30/15	calc	

13000 West County Road 100 Project Number: 416-6562
Odessa TX, 79765 Project Manager: Brandon Wilson

### AH 1 2' 5129004-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	nian Basin F	Environme	ntal Lab, l	L.P.				
<b>General Chemistry Parameters by EPA / S</b>	tandard Method	ls							
Chloride	4500	26.3	mg/kg dry	25	P5J0507	10/01/15	10/05/15	EPA 300.0	
% Moisture	5.0	0.1	%	1	P5J0101	10/01/15	10/01/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	)15M							
C6-C12	ND	26.3	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
Surrogate: 1-Chlorooctane		95.7 %	70-1	30	P5I3001	09/29/15	09/30/15	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-1	30	P5I3001	09/29/15	09/30/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/29/15	09/30/15	calc	

13000 West County Road 100 Project Number: 416-6562
Odessa TX, 79765 Project Manager: Brandon Wilson

AH 1 4' 5I29004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environme	ıtal Lab,	L.P.				
<b>General Chemistry Parameters by EPA</b>	/ Standard Method	ls							
Chloride	6040	26.6	mg/kg dry	25	P5J0507	10/01/15	10/05/15	EPA 300.0	
% Moisture	6.0	0.1	%	1	P5J0101	10/01/15	10/01/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	)15M							
C6-C12	ND	26.6	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
Surrogate: 1-Chlorooctane		92.0 %	70-1	30	P5I3001	09/29/15	09/30/15	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-1	30	P5I3001	09/29/15	09/30/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/29/15	09/30/15	calc	

13000 West County Road 100 Project Number: 416-6562
Odessa TX, 79765 Project Manager: Brandon Wilson

AH 1 6' 5I29004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environme	ntal Lab,	L.P.				
<b>General Chemistry Parameters by EPA</b>	/ Standard Method	ls							
Chloride	3500	26.3	mg/kg dry	25	P5J0507	10/01/15	10/05/15	EPA 300.0	
% Moisture	5.0	0.1	%	1	P5J0101	10/01/15	10/01/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	)15M							
C6-C12	ND	26.3	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P5I3001	09/29/15	09/30/15	TPH 8015M	
Surrogate: 1-Chlorooctane		94.7 %	70-1	30	P5I3001	09/29/15	09/30/15	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-1	30	P5I3001	09/29/15	09/30/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/29/15	09/30/15	calc	

13000 West County Road 100 Project Number: 416-6562
Odessa TX, 79765 Project Manager: Brandon Wilson

### AH 2 0" 5I29004-05 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironmer	ıtal Lab, l	L <b>.P.</b>				
General Chemistry Parameters by EPA / S	standard Method	s							
Chloride	1440	5.32	mg/kg dry	5	P5J0507	10/01/15	10/05/15	EPA 300.0	
% Moisture	6.0	0.1	%	1	P5J0101	10/01/15	10/01/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M							
C6-C12	ND	26.6	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
Surrogate: 1-Chlorooctane		95.4 %	70-1	30	P5J0102	09/30/15	09/30/15	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-1	30	P5J0102	09/30/15	09/30/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/30/15	09/30/15	calc	

13000 West County Road 100 Project Number: 416-6562
Odessa TX, 79765 Project Manager: Brandon Wilson

### AH 2 2' 5I29004-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Environmer	ıtal Lab,	L.P.				
<b>General Chemistry Parameters by EPA / S</b>	Standard Method	s							
Chloride	24.0	1.03	mg/kg dry	1	P5J0507	10/01/15	10/05/15	EPA 300.0	
% Moisture	3.0	0.1	%	1	P5J0101	10/01/15	10/01/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M							
C6-C12	ND	25.8	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
Surrogate: 1-Chlorooctane		98.5 %	70-1	30	P5J0102	09/30/15	09/30/15	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-1	30	P5J0102	09/30/15	09/30/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/30/15	09/30/15	calc	

13000 West County Road 100 Project Number: 416-6562
Odessa TX, 79765 Project Manager: Brandon Wilson

### AH 2 4' 5I29004-07 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Environme	ıtal Lab, l	L <b>.P.</b>				
<b>General Chemistry Parameters by EPA / S</b>	tandard Method	ls							
Chloride	23.5	1.04	mg/kg dry	1	P5J0507	10/01/15	10/05/15	EPA 300.0	
% Moisture	4.0	0.1	%	1	P5J0101	10/01/15	10/01/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M							
C6-C12	ND	26.0	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
Surrogate: 1-Chlorooctane		98.0 %	70-1	30	P5J0102	09/30/15	09/30/15	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-1	30	P5J0102	09/30/15	09/30/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/30/15	09/30/15	calc	

13000 West County Road 100 Project Number: 416-6562
Odessa TX, 79765 Project Manager: Brandon Wilson

AH 2 6' 5I29004-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironmer	ıtal Lab,	L.P.				
General Chemistry Parameters by EPA /	Standard Method	s							
Chloride	289	1.05	mg/kg dry	1	P5J0507	10/01/15	10/05/15	EPA 300.0	
% Moisture	5.0	0.1	%	1	P5J0101	10/01/15	10/01/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 b	y EPA Method 80	15M							
C6-C12	ND	26.3	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P5J0102	09/30/15	09/30/15	TPH 8015M	
Surrogate: 1-Chlorooctane		98.3 %	70-1	30	P5J0102	09/30/15	09/30/15	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-1	30	P5J0102	09/30/15	09/30/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/30/15	09/30/15	calc	

E Tech Environmental & Safety Solutions, Inc.

Project: NSLU INJ #69 Project Number: 416-6562

13000 West County Road 100 Odessa TX, 79765

Project Number: 416-6562
Project Manager: Brandon Wilson

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
Batch P5I3003 - *** DEFAULT PREP ***								<u> </u>		
Blank (P5I3003-BLK1)				Prepared &	Analyzed:	09/30/15				
Chloride	ND	1.00	mg/kg wet							
LCS (P5I3003-BS1)				Prepared &	Analyzed:	09/30/15				
Chloride	101	1.00	mg/kg wet	100		101	80-120			
LCS Dup (P5I3003-BSD1)				Prepared &	Analyzed:	09/30/15				
Chloride	102	1.00	mg/kg wet	100		102	80-120	0.0887	20	
Duplicate (P5I3003-DUP1)	Sour	rce: 5128014	-01	Prepared &	Analyzed:	09/30/15				
Chloride	1540	27.8	mg/kg dry		1520			0.962	20	
Duplicate (P5I3003-DUP2)	Sour	rce: 5I29002	-08	Prepared &	Analyzed:	09/30/15				
Chloride	ND	1.02	mg/kg dry		ND				20	
Batch P5J0101 - % Solids										
Blank (P5J0101-BLK1)				Prepared &	Analyzed:	10/01/15				
% Moisture	ND	0.1	%							
Duplicate (P5J0101-DUP1)	Sour	rce: 5129003	-03	Prepared &	Analyzed:	10/01/15				
% Moisture	8.0	0.1	%		7.0			13.3	20	
Duplicate (P5J0101-DUP2)	Sour	rce: 5I29004	-08	Prepared &	Analyzed:	10/01/15				
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P5J0101-DUP3)	Sou	rce: 5I30005	-01	Prepared &	Analyzed:	10/01/15				
% Moisture	8.0	0.1	%		8.0			0.00	20	

E Tech Environmental & Safety Solutions, Inc.

Project: NSLU INJ #69

13000 West County Road 100

Project Number: 416-6562

Odessa TX, 79765

Project Manager: Brandon Wilson

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

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Sour	ce: 5I30011-	04	Prepared &	Analyzed	I: 10/01/15				
3.0	0.1	%		4.0			28.6	20	
			Prepared: 1	0/01/15 A	Analyzed: 10	0/05/15			
ND	1.00	mg/kg wet							
			Prepared: 1	0/01/15 A	Analyzed: 10	0/05/15			
104	1.00	mg/kg wet	100		104	80-120			
			Prepared: 1	0/01/15 A	Analyzed: 10	0/05/15			
99.3	1.00	mg/kg wet	100		99.3	80-120	4.77	20	
Sour	ce: 5I29004-	03	Prepared: 1	0/01/15 A	Analyzed: 10	0/05/15			
6060	26.6	mg/kg dry		6040			0.176	20	
<b>Source: 5129005-04</b> Prep.		Prepared: 1	0/01/15 A	Analyzed: 10	0/05/15				
1060		mg/kg dry		1070			1.14	20	
•	Sour 3.0  ND  104  99.3  Sour 6060  Sour	Source: 5I30011-           3.0         0.1           ND         1.00           104         1.00           99.3         1.00           Source: 5I29004-           6060         26.6           Source: 5I29005-	ND   1.00   mg/kg wet	ND   1.00   mg/kg wet   100	Source: 5130011-04   Prepared & Analyzed	Source: 5I30011-04	Result         Limit         Units         Level         Result         %REC         Limits           Source: 5I30011-04         Prepared & Analyzed: 10/01/15           3.0         0.1         %         4.0           Prepared: 10/01/15 Analyzed: 10/05/15           ND         1.00         mg/kg wet           Prepared: 10/01/15 Analyzed: 10/05/15           104         1.00         mg/kg wet         100         104         80-120           Prepared: 10/01/15 Analyzed: 10/05/15           99.3         1.00         mg/kg wet         100         99.3         80-120           Source: 5129004-03         Prepared: 10/01/15 Analyzed: 10/05/15           6060         26.6         mg/kg dry         6040           Source: 5129005-04         Prepared: 10/01/15 Analyzed: 10/05/15	Source: 5I30011-04         Prepared & Analyzed: 10/01/15         28.6           ND         1.00         mg/kg wet         Prepared: 10/01/15 Analyzed: 10/05/15           104         1.00         mg/kg wet         100         104         80-120           Prepared: 10/01/15 Analyzed: 10/05/15         Prepared: 10/01/15 Analyzed: 10/05/15         Prepared: 10/01/15 Analyzed: 10/05/15           99.3         1.00         mg/kg wet         100         99.3         80-120         4.77           Source: 5129004-03         Prepared: 10/01/15 Analyzed: 10/05/15         Prepared: 10/01/15 Analyzed: 10/05/15         0.176           Source: 5129005-04         Prepared: 10/01/15 Analyzed: 10/05/15         Prepared: 10/01/15 Analyzed: 10/05/15         0.176	Result         Limit         Units         Level         Result         %REC         Limits         RPD         Limit           Source: 5130011-04         Prepared & Analyzed: 10/01/15           3.0         0.1         %         4.0         28.6         20           Prepared: 10/01/15 Analyzed: 10/05/15           ND         1.00         mg/kg wet         100         104         80-120           Prepared: 10/01/15 Analyzed: 10/05/15           99.3         1.00         mg/kg wet         100         99.3         80-120         4.77         20           Source: 5129004-03         Prepared: 10/01/15 Analyzed: 10/05/15           6060         26.6         mg/kg dry         6040         0.176         20           Source: 5129005-04         Prepared: 10/01/15 Analyzed: 10/05/15

E Tech Environmental & Safety Solutions, Inc. Project: NSLU INJ #69

13000 West County Road 100

Project Number: 416-6562

Odessa TX, 79765 Project Manager: Brandon Wilson

# Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source	N/DES	%REC	222	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5I3001 - TX 1005										
Blank (P5I3001-BLK1)				Prepared &	t Analyzed:	09/29/15				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	62.3		"	50.0		125	70-130			
LCS (P5I3001-BS1)				Prepared &	ኔ Analyzed:	09/29/15				
C6-C12	971	25.0	mg/kg wet	1000		97.1	75-125			
>C12-C28	1070	25.0	"	1000		107	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	67.5		"	50.0		135	70-130			S-GC
LCS Dup (P5I3001-BSD1)				Prepared &	ኔ Analyzed:	09/29/15				
C6-C12	953	25.0	mg/kg wet	1000		95.3	75-125	1.84	20	
>C12-C28	1060	25.0	"	1000		106	75-125	1.38	20	
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	66.3		"	50.0		133	70-130			S-GC
Matrix Spike (P5I3001-MS1)	Sour	rce: 5129002	-01	Prepared: (	09/29/15 A	nalyzed: 09	9/30/15			
C6-C12	899	25.3	mg/kg dry	1010	ND	89.0	75-125			
>C12-C28	887	25.3	"	1010	ND	87.8	75-125			
Surrogate: 1-Chlorooctane	89.0		"	101		88.1	70-130			
Surrogate: o-Terphenyl	50.0		"	50.5		99.0	70-130			
Matrix Spike Dup (P5I3001-MSD1)	Sour	rce: 5129002	-01	Prepared: (	09/29/15 A	nalyzed: 09	9/30/15			
C6-C12	919	25.3	mg/kg dry	1010	ND	91.0	75-125	2.17	20	
>C12-C28	925	25.3	"	1010	ND	91.6	75-125	4.17	20	
Surrogate: 1-Chlorooctane	92.0		"	101		91.1	70-130			
Surrogate: o-Terphenyl	52.1		"	50.5		103	70-130			

E Tech Environmental & Safety Solutions, Inc. Project: NSLU INJ #69

13000 West County Road 100

Project Number: 416-6562 Odessa TX, 79765 Project Manager: Brandon Wilson

## 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	%KEC Limits	RPD	Limit	Notes
									-	
Batch P5J0102 - TX 1005										
Blank (P5J0102-BLK1)				Prepared &	Analyzed:	09/30/15				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	63.7		"	50.0		127	70-130			
LCS (P5J0102-BS1)				Prepared &	Analyzed:	09/30/15				
C6-C12	893	25.0	mg/kg wet	1000		89.3	75-125			
>C12-C28	920	25.0	"	1000		92.0	75-125			
Surrogate: 1-Chlorooctane	94.4		"	100		94.4	70-130			
Surrogate: o-Terphenyl	57.5		"	50.0		115	70-130			
LCS Dup (P5J0102-BSD1)				Prepared &	Analyzed:	09/30/15				
C6-C12	918	25.0	mg/kg wet	1000		91.8	75-125	2.78	20	
>C12-C28	940	25.0	"	1000		94.0	75-125	2.12	20	
Surrogate: 1-Chlorooctane	97.4		"	100		97.4	70-130			
Surrogate: o-Terphenyl	58.7		"	50.0		117	70-130			
Matrix Spike (P5J0102-MS1)	Sourc	e: 5I29004	-07	Prepared &	Analyzed:	09/30/15				
C6-C12	913	26.0	mg/kg dry	1040	ND	87.6	75-125			
>C12-C28	970	26.0	"	1040	ND	93.1	75-125			
Surrogate: 1-Chlorooctane	93.7		"	104		89.9	70-130			
Surrogate: o-Terphenyl	60.0		"	52.1		115	70-130			
Matrix Spike Dup (P5J0102-MSD1)	Sourc	e: 5I29004	-07	Prepared &	Analyzed:	09/30/15				
C6-C12	927	26.0	mg/kg dry	1040	ND	89.0	75-125	1.58	20	
>C12-C28	982	26.0	"	1040	ND	94.2	75-125	1.20	20	
Surrogate: 1-Chlorooctane	99.1		"	104		95.1	70-130			
Surrogate: o-Terphenyl	60.9		"	52.1		117	70-130			

Fax: (432) 563-2213 E Tech Environmental & Safety Solutions, Inc. Project: NSLU INJ #69

13000 West County Road 100 Project Number: 416-6562 Odessa TX, 79765 Project Manager: Brandon Wilson

#### **Notes and Definitions**

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery 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
Dup	Duplicate
	Bun Burron
Report A	Approved By: Date: Date:

Brent Barron, Laboratory Director/Technical Director

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Date Time Re	Date Time ReDate Time Re															708		Etech Environmental & Safety Solutions, Inc.		& Safety
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						1011世二			20   1 10		No. of Containers Ice VHNO <sub>3</sub> HCI	Preservation &		e-mail: <u>Brandon@eteche</u> ı	Fax No: 432-563-2213					5, Inc. 12800 W. Hwy 8 Odessa, Texas
9 29	Date Date										H <sub>2</sub> SO <sub>4</sub> NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> None Other ( Specify)	ition & # of Containers		chenv.com						Hwy 80 E Texas 79765
Time  √ /0÷ω	Time Time		S 向口				コロpl S	기미[四] S		S PO	DW=Drinking Water SL=Sludge  GW = Groundwater S=Soil/Solid  NP=Non-Potable Specify Other  TPH: 418.1 8015M 005 10  Cations (Ca, Mg, Na, K)  Anions (CI, SQ4, CO3, HCO3)				Report Format:	PO#	Project Loc: Pioneer	Project #:	Project Name:	CHAIN OF CUS
Temperature Upon Receipt:	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep.? by Courter? UPS DI										SAR / ESP / CEC  Metals: As Ag Ba Cd Cr Pb Hg  Volatiles  Semivolatiles  BTEX 8021B/5030 or BTEX 826		Analyze For:		Standard [	##	c: Pioneer MM	# 410-105	T WILL "	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUES: Phone: 432-563-2200 Fax: 432-563-2213
spt:	iner(s)  DHL FedEx										NO.R.M.				TRRP   NPDES		Mode	212	LOS HOS	ID ANALYSIS RE( -563-2200 -563-2213
Ĉ,	One N N N N N N N N N N N N N N N N N N N										RUSH TAT (Pre-Schedule) 24, Standard TAT	48, 721	nrs	1						16 of 16

## **Quantab Chloride Test Strip Analysis Sheet**

Date: 9/28/2015 Client: MEMORIAL

Site: NSLU INJ 69 Project Number: 416-6562

Technican: BB Strip Lot Number(s):

Sample ID	Titrator Range	Dilution	Test Strip Result (ppm)	Final Result (ppm)	Notations
AH 1 0"		10	408.0	4080.00	
AH 1 1'		10	513.0	5130.00	
AH 1 2'		10	328.0	3280.00	
AH 1 3'		10	603.0	6030.00	
AH 1 4'		10	603.0	6030.00	
AH 1 5'		10	284.0	2840.00	
AH 1 6'		10	229.0	2290.00	
AH 2 0"		10	67.0	670.00	
AH 2 1'		10	BDL	#VALUE!	
AH 2 2'		10	BDL	#VALUE!	
AH 2 3'		10	BDL	#VALUE!	
AH 2 4'		10	BDL		
AH 2 5'		10	82.0	820.00	
AH 2 6'		10	BDL		
		10			
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		10			

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

Client: MEMORIAL

Address:

Phone: 713-588-8300

Operator: Britney Beaty

Contact: Chris Gafford

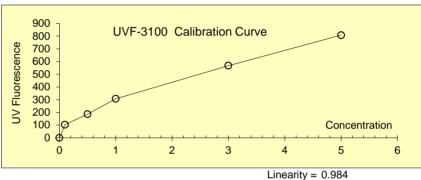
Signature:

Date: 9/28/15 Time: Project Name: NSLU INJ #69 Job #: 416-6562-00

File #: 1 Matrix: SOIL

Date Collected: 9/215 Date Received: 9/25/2015 Date Extracted: 9/28/2015 Date Analyzed: 9/28/2015 Date Reported: 9/28/2015

Standard	UVF-3100 Calibration
Concentration	Raw Fluorescence
0	0
0.1	103.5
0.5	186.5
1.0	306.8
3.0	567.7
5.0	807.8
site LAB	
Calibration Product #:	CAL-042
Units (ppm or mg/Kg):	ppm



UVF Run#:	Sample ID & Description	UVF Raw Fluorescence	Test Sample Concentration	Dilution Factor	Test Result:
ixuii#.	Description	ridorescence	(ppm)	1 actor	
22	AH 1 0"	3.26	0.003	1,000	Concentration Too Low (ND)
23	AH 1 1'	-2.46	-0.002	1,000	Concentration Too Low (ND)
24	AH 1 2'	-5.58	-0.005	1,000	Concentration Too Low (ND)
25	AH 1 3'	-5.61	-0.005	1,000	Concentration Too Low (ND)
26	AH 1 4'	-5.82	-0.006	1,000	Concentration Too Low (ND)
27	AH 1 5'	-6.08	-0.006	1,000	Concentration Too Low (ND)
28	AH 1 6'	-2.90	-0.003	1,000	Concentration Too Low (ND)
29	AH 2 0"	-1.61	-0.002	1,000	Concentration Too Low (ND)
30	AH 2 1'	43.14	0.042	1,000	Concentration Too Low (ND)
31	AH 2 2'	20.65	0.02	1,000	Concentration Too Low (ND)
32	AH 2 3'	-3.27	-0.003	1,000	Concentration Too Low (ND)
33	AH 2 4'	-3.61	-0.003	1,000	Concentration Too Low (ND)
34	AH 2 5'	-1.99	-0.002	1,000	Concentration Too Low (ND)
35	AH 2 6'	-3.89	-0.004	1,000	Concentration Too Low (ND)
15		1.00	1	1	1.0 ppm
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
Comments:	Results reported in wet weight.				

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



# Analytical Report

### **Prepared for:**

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

Project: NSLU Inj Line 51 & 69
Project Number: 416-6562
Location: Loco Hill, NM

Lab Order Number: 5J16005



NELAP/TCEQ # T104704156-13-3

Report Date: 10/21/15

E Tech Environmental & Safety Solutions, Inc.

Project: NSLU Inj Line 51 & 69

13000 West County Road 100 Odessa TX, 79765 Project Number: 416-6562 Project Manager: Tim McMinn Fax: (432) 563-2213

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH1 7'	5J16005-01	Soil	10/07/15 13:15	10-15-2015 16:40
AH1 8'	5J16005-02	Soil	10/07/15 13:20	10-15-2015 16:40
AH1 9'	5J16005-03	Soil	10/07/15 13:25	10-15-2015 16:40
AH1 10'	5J16005-04	Soil	10/07/15 13:30	10-15-2015 16:40

13000 West County Road 100 Project Number: 416-6562
Odessa TX, 79765 Project Manager: Tim McMinn

AH1 7' 5J16005-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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

Chloride	1820	5.26 mg/kg dry	5	P5J2002	10/20/15	10/20/15	EPA 300.0
% Moisture	5.0	0.1 %	1	P5J1610	10/16/15	10/16/15	% calculation

13000 West County Road 100 Project Number: 416-6562
Odessa TX, 79765 Project Manager: Tim McMinn

AH1 8' 5J16005-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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

Chloride	3130	10.6 mg/kg dry	10	P5J2002	10/20/15	10/20/15	EPA 300.0
% Moisture	6.0	0.1 %	1	P5J1610	10/16/15	10/16/15	% calculation

13000 West County Road 100Project Number: 416-6562Odessa TX, 79765Project Manager: Tim McMinn

AH1 9' 5J16005-03 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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

Chloride	573	1.04 mg/kg dry	1	P5J2002	10/20/15	10/20/15	EPA 300.0
% Moisture	4.0	0.1 %	1	P5J1610	10/16/15	10/16/15	% calculation

13000 West County Road 100Project Number: 416-6562Odessa TX, 79765Project Manager: Tim McMinn

AH1 10' 5J16005-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	594	1.05 mg/kg dry	1	P5J2002	10/20/15	10/20/15	EPA 300.0
% Moisture	5.0	0.1 %	1	P5J1610	10/16/15	10/16/15	% calculation

E Tech Environmental & Safety Solutions, Inc.

Project: NSLU Inj Line 51 & 69

13000 West County Road 100

Project Number: 416-6562

Odessa TX, 79765

Project Manager: Tim McMinn

# General Chemistry Parameters by EPA / Standard Methods - 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 P5J1610 - % Solids										
Blank (P5J1610-BLK1)				Prepared &	Analyzed:	10/16/15				
% Moisture	ND	0.1	%							
Duplicate (P5J1610-DUP1)	Sour	Prepared &	Analyzed:	10/16/15						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P5J1610-DUP3)	Sour	Prepared &	Analyzed:	10/16/15						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Batch P5J2002 - *** DEFAULT PREP ***										
Blank (P5J2002-BLK1)				Prepared &	Analyzed:	10/20/15				
Chloride	ND	1.00	mg/kg wet							
LCS (P5J2002-BS1)				Prepared &	Analyzed:	10/20/15				
Chloride	108	1.00	mg/kg wet	100		108	80-120			
LCS Dup (P5J2002-BSD1)				Prepared &	Analyzed:	10/20/15				
Chloride	110	1.00	mg/kg wet	100	-	110	80-120	1.56	20	
Duplicate (P5J2002-DUP1)	Sour	rce: 5J15007-	-01	Prepared &	Analyzed:	10/20/15				
Chloride	1050	30.5	mg/kg dry		1050			0.319	20	
Duplicate (P5J2002-DUP2)	Sour	rce: 5J15008-	-02	Prepared &	Analyzed:	10/20/15				
Chloride	1830	28.1	mg/kg dry		1850			0.902	20	

13000 West County Road 100 Project Number: 416-6562
Odessa TX, 79765 Project Manager: Tim McMinn

**Notes and Definitions** 

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

	Buron		
Report Approved By:		Date:	10/21/2015

Brent Barron, Laboratory Director/Technical Director

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				8											H <sub>2</sub> SO <sub>4</sub>	on &#</td><td></td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td>469 exa:</td></tr><tr><td></td><td></td><td></td><td>1.</td><td></td><td>昌</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>NaOH</td><td>_ င် င်</td><td></td><td>Ŝ</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>-</td><td>00 pp ~</td><td>H</td><td>Щ</td><td>ᆜ</td><td></td><td>屵</td><td></td><td></td><td>Ш</td><td>H</td><td>H</td><td>Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> None</td><td>of Containers</td><td></td><td></td><td></td><td></td><td>   </td><td></td><td></td><td>79708</td></tr><tr><td>10</td><td></td><td>_</td><td></td><td>8</td><td>H</td><td>H</td><td>H</td><td>믬</td><td>H</td><td>H</td><td>H</td><td>H</td><td>H</td><td>H</td><td>Other ( Specify)</td><td>_ g</td><td></td><td>Con</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Date</td><td>Date</td><td>Date</td><td></td><td></td><td>-</td><td></td><td><u>                                     </u></td><td><u>                                     </u></td><td><u>                                     </u></td><td>_</td><td><u>                                     </u></td><td></td><td></td><td><u>                                     </u></td><td>DW=Drinking Water SL=Sludge</td><td>+</td><td>1</td><td>3</td><td></td><td>ı</td><td>1</td><td>1</td><td>1</td><td>0</td></tr><tr><td>7</td><td></td><td></td><td></td><td>***</td><td>-</td><td></td><td></td><td>V</td><td>V</td><td>٨</td><td>5</td><td>V</td><td>N</td><td>V</td><td>GW = Groundwater S=Soil/Solid</td><td>Matrix</td><td></td><td></td><td>Rep</td><td></td><td></td><td></td><td></td><td>Η̈́Α</td></tr><tr><td>16</td><td></td><td></td><td>]</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>NP=Non-Potable Specify Other</td><td>×</td><td></td><td></td><td>ğ</td><td></td><td></td><td></td><td>Pro</td><td>Ž O</td></tr><tr><td>Time /6</td><td>Time</td><td>IIMe</td><td></td><td></td><td></td><td>밀</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>TPH: 418.1 8015M 1005 1</td><td>006</td><td>     </td><td></td><td>Report Format:</td><td></td><td>Project Loc:</td><td>Pro</td><td>Project Name:</td><td>U J</td></tr><tr><td><u>                                     </u></td><td></td><td><u>                                    </u></td><td>_</td><td>ு ட</td><td>븯</td><td>띰</td><td>닏</td><td>띰</td><td></td><td></td><td>片</td><td></td><td></td><td></td><td>Cations (Ca, Mg, Na, K)</td><td></td><td>-</td><td></td><td>at:</td><td>PO #:</td><td>Ę</td><td>Project #:</td><td>Vam</td><td>US]</td></tr><tr><td>Ten</td><td>iamp by</td><td>abel iusto</td><td>ိုင္ကို</td><td>.abo amp</td><td>ዙ</td><td>붜</td><td>片</td><td><math>\vdash</math></td><td>1</td><td></td><td>4</td><td>-</td><td></td><td>-</td><td>Anions (CL) SO4, CO3, HCO3) SAR / ESP / CEC</td><td></td><td>TCLP:</td><td></td><td></td><td>#</td><td></td><td>1</td><td><u>.</u></td><td>8</td></tr><tr><td>pera</td><td>Sar H</td><td>s on dy s</td><td>Fire</td><td>rato ile C</td><td>片</td><td>H</td><td><math>\exists</math></td><td></td><td>屵</td><td>H</td><td>믐</td><td></td><td>믐</td><td></td><td>Metals: As Ag Ba Cd Cr Pb Hg</td><td>ı Se</td><td> </td><td></td><td><u>(</u></td><td></td><td>laco</td><td>4116</td><td><b>X</b></td><td>Ϋ́</td></tr><tr><td>ature</td><td>and npler urier?</td><td>eals</td><td>е <b>Э</b></td><td>onta C</td><td>后</td><td>H</td><td>〒</td><td>౼</td><td><math>\equiv</math></td><td></td><td>青</td><td>듬</td><td>旨</td><td>H</td><td>Volatiles</td><td>,</td><td>HH</td><td></td><td>Standard</td><td></td><td></td><td></td><td>NSLW</td><td>Pho</td></tr><tr><td>₽</td><td>Clier</td><td>_abels on container(s) Custody seals on container Custody seals on cook</td><td>Head</td><td>ners</td><td>同</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Semivolatiles</td><td></td><td></td><td>4nalyze</td><td>ard</td><td></td><td><u>                                     </u></td><td>6</td><td>3</td><td>ORC one:</td></tr><tr><td>Į Ž</td><td>rered TRe</td><td>n(s) onta ooler</td><td>VOCs Free of Headspace?</td><td>_aboratory Comments: Sample Containers Intac</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>BTEX 8021B/5030 or BTEX 82</td><td>260</td><td></td><td></td><td></td><td></td><td>4/1/16</td><td>6562</td><td>1</td><td>432 432</td></tr><tr><td>) Čejp</td><td>Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS</td><td>Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)</td><td>ૃક્</td><td>Laboratory Comments: Sample Containers Intact?</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td>RCI</td><td></td><td></td><td>For:</td><td>TRRP</td><td></td><td></td><td>1</td><td>Inc</td><td>ECORD AND ANAL ) Phone: 432-563-2200 Fax: 432-563-2213</td></tr><tr><td>1, 1,</td><td>무</td><td>5)</td><td></td><td></td><td>냳</td><td>빌</td><td>빌</td><td>빌</td><td>Ц</td><td>Ш</td><td>빌</td><td>브</td><td>Щ</td><td>-</td><td>N.O.R.M.</td><td>-</td><td></td><td></td><td>∜</td><td></td><td>Z</td><td></td><td>S</td><td>NA -221</td></tr><tr><td>Temperature Upon Receipt: 4,0 んん</td><td></td><td></td><td>y Y</td><td>250 300</td><td>ዙ</td><td>片</td><td><math>\vdash</math></td><td><math>\mathbb{H}</math></td><td>Н</td><td></td><td>Н</td><td>片</td><td>H</td><td></td><td>TOC</td><td></td><td></td><td></td><td></td><td></td><td>T</td><td></td><td>4</td><td>CHAIN OF CUSTODY RECORD AND ANALYSIS REQUES Phone: 432-563-2200 Fax: 432-563-2213</td></tr><tr><td>2</td><td>ŭ≪3</td><td><b>5</b></td><td>?)<b>&</b>(\$</td><td>13</td><td>片</td><td>붜</td><td>브</td><td>붜</td><td>ᆜ</td><td><u>                                     </u></td><td>믬</td><td>닏</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>60</td><td>IS F</td></tr><tr><td>30</td><td></td><td></td><td></td><td></td><td>片</td><td>片</td><td><math>\exists</math></td><td>H</td><td>뉘</td><td></td><td>片</td><td>H</td><td>H</td><td>붐</td><td></td><td></td><td><u> </u></td><td></td><td>NPDES</td><td></td><td></td><td></td><td>10</td><td>₹EQ</td></tr><tr><td><u> 7</u>°°</td><td>N N Lone Star</td><td>zzz</td><td>z</td><td>Z</td><td>I</td><td></td><td></td><td></td><td></td><td></td><td></td><td>一</td><td></td><td></td><td>RUSH TAT (Pre-Schedule) 24</td><td>HOU</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td>UES</td></tr><tr><td></td><td>Ř</td><td></td><td></td><td></td><td></td><td></td><td></td><td>M</td><td><math>\mathbf{Z}</math></td><td><math>\mathbb{Z}</math></td><td>Z</td><td>Ø</td><td></td><td>otag</td><td>Standard TAT</td><td></td><td></td><td><del></del></td><td></td><td></td><td></td><td></td><td>Page</td><td>e 9 of 9</td></tr><tr><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>J</td><td>1</td></tr></tbody></table>								