Electronic Correspondence

January 5, 2015

Re: Corrective Action Plan

Mark L Shidler Inc., State 1-30 Battery (Nearest Well – State 1-30 001)

API No.: 30-025-08441 GPS: 33.25509, -103.54838

Legal: Unit B, Section 30, Township 12S, Range 34E - Lea County, NM

1RP-3465

To Whom It May Concern:

Viper Products and Services is pleased to submit the following Corrective Action Plan on the aforementioned site for your review and approval.

Work to be Performed-

The scope of this project is for the remediation of a produced water and hydrocarbon release of an estimated 130 bbls (barrels) that occurred when a heater-treater obtained a hole through corrosion. The spill covered approximately 6,100 square feet contained within the secondary containment (firewall) of the battery. There was a spray that went off the location in the pasture but analytical shows that this area was not impacted (see attached Release Area Map).

4 sample points (SP) were set and surface samples were taken at the depth of the excavation that had previously been performed. Laboratory analytical shows that the 3 sample points within the firewall will require further delineation as well as excavation as per the New Mexico Oil Conservation Division (OCD), because of the Benzene and the chloride concentrations. SP 4 requires no further action (see attached Sample Summary).

Further delineation will occur utilizing a backhoe to determine the depth of the contamination. Because the ground water depth is between 50 and 100 feet, the concentration of chlorides must be below 500 parts per million (ppm) and one sample point must be at or below the Clean Drinking Water Standard of 250 ppm. Total Petroleum Hydrocarbons must be below 1000 ppm. Benzene, Toluene, Ethyl Benzene, Xylenes (BTEX) must be below 50 with no more than 10 ppm of Benzene. If an acceptable level of concentration of the contaminants cannot be reached using the backhoe, a drilling rig will be utilized.

Because this is an active location, the OCD has given verbal approval to only have to excavate down 2-3 feet as long as a plastic liner will be placed before backfilling. If the site cleans up to an acceptable level before the 3' benchmark, excavation will cease. The release location will be excavated down to the appropriate depth and impacted firewall will be removed and replaced with remediated soil being taken to an approved disposal facility once the Benzene levels have volatilized to below 10 ppm.. (See attached Excavation Diagram)

Confirmatory samples will be taken on the sidewalls at ½ of depth of the excavation and sent to an approved Laboratory to ensure affected area is fully remediated.

If the results of analyses determine that the contaminant levels are above regulatory threshold levels, additional expansion of the excavation will be performed until the remediation objectives are met.

A plastic liner will be placed at the bottom of the excavated area and compacted gypsum (caliche) will be placed on top to bring the excavated area up to grade.

The area around SP4, which is outside the firewall, will not be remediated as analytical shows the surface to be clean of actionable contaminants.

Thank you for your assistance on this matter. If you have any questions, need more information, or have any additional requirements for this site, please contact me at (940) 395-3308, fredramsey711@gmail.com

Respectfully:

Fred Ramsey Project Manager Viper Products and Services

State 1-30 Battery



December 29, 2014

FRED RAMSEY
VIPER PRODUCTS AND SERVICES
4702 COLLEGE AVENUE
SNYDER, TX 79549

RE: STATE 1-30 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/19/14 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



VIPER PRODUCTS AND SERVICES FRED RAMSEY 4702 COLLEGE AVENUE SNYDER TX, 79549 Fax To:

Received: 12/19/2014 Sampling Date: 12/19/2014

Reported: 12/29/2014 Sampling Type: Soil

Project Name: STATE 1-30 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY

Sample ID: SP 1 @ 1' (H403895-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/22/2014	ND	400	100	400	0.00	
ТРН 8015М	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	resuit	-13	,			•			-
GRO C6-C10	30500	100	12/22/2014	ND	201	100	200	4.10	•

Surrogate: 1-Chlorooctane 2600 % 47.2-157 Surrogate: 1-Chlorooctadecane 223 % 52.1-176

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



VIPER PRODUCTS AND SERVICES FRED RAMSEY 4702 COLLEGE AVENUE SNYDER TX, 79549 Fax To:

Received: 12/19/2014 Reported: 12/29/2014

Project Name: STATE 1-30 BATTERY Project Number: NONE GIVEN

Project Location: LEA COUNTY Sampling Date: 12/19/2014 Sampling Type: Soil

Sample Received By:

Sampling Condition: Cool & Intact

Jodi Henson

Sample ID: SP 2 @ 6" (H403895-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	34.5	20.0	12/23/2014	ND	1.87	93.4	2.00	4.37	
Toluene*	510	20.0	12/23/2014	ND	1.85	92.3	2.00	4.87	
Ethylbenzene*	147	20.0	12/23/2014	ND	1.68	83.9	2.00	8.18	
Total Xylenes*	1090	60.0	12/23/2014	ND	4.99	83.1	6.00	9.33	
Total BTEX	1780	120	12/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 61-154	!						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/22/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	21000	200	12/22/2014	ND	201	100	200	4.10	
DRO >C10-C28	25400	200	12/22/2014	ND	195	97.4	200	1.72	
Surrogate: 1-Chlorooctane	2800	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	223	% 52.1-17	6						

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Celey D. Keine



VIPER PRODUCTS AND SERVICES FRED RAMSEY 4702 COLLEGE AVENUE SNYDER TX, 79549 Fax To:

Received: 12/19/2014 Sampling Date: 12/19/2014

Reported: 12/29/2014 Sampling Type: Soil

Project Name: STATE 1-30 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY

Sample ID: SP 3 @ 1' (H403895-03)

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	12/22/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1110	50.0	12/22/2014	ND	201	100	200	4.10	
DRO >C10-C28	10300	50.0	12/22/2014	ND	195	97.4	200	1.72	

Surrogate: 1-Chlorooctane 423 % 47.2-157
Surrogate: 1-Chlorooctadecane 178 % 52.1-176

Sample ID: SP 4 @ SURFACE (H403895-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/22/2014	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2014	ND	201	100	200	4.10	
		10.0	12/22/2014	ND	195	97.4	200	1.72	

Surrogate: 1-Chlorooctane 96.3 % 47.2-157
Surrogate: 1-Chlorooctadecane 114 % 52.1-176

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VIPER PRODUCTS AND SERVICES FRED RAMSEY 4702 COLLEGE AVENUE SNYDER TX, 79549 Fax To:

Received: 12/19/2014 Sampling Date: 12/19/2014

Reported: 12/29/2014 Sampling Type: Soil

Project Name: STATE 1-30 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY

Sample ID: PILE COMPOSITE (H403895-05)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	12/22/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	8860	200	12/23/2014	ND	192	95.9	200	0.542	
DRO >C10-C28	27400	200	12/23/2014	ND	186	93.1	200	0.738	

Surrogate: 1-Chlorooctane 1580 % 47.2-157
Surrogate: 1-Chlorooctadecane 273 % 52.1-176

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

OM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or

greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance

limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	(0/0) 333-2320 FAX (0/0) 333-24/0							
Company Name:	11/10 Poduct and	Syricy	BILL TO		-	ANALYSIS	REQUEST	
Project Manager:	" Fred		P.O. #:					
Address:			Company: Upper					
City:	State:	Zip:	Attn: Kenny Tat	6				
Phone #:	Fax #:		Address:				,	
Project #:	Project Owner:		City:					
Project Name:	State 1-30 Satting	72,	State: Zip:			,		
Project Location:	tog County		Phone #:					
Sampler Name:	Febbet Runnels		Fax #:					
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	G				
Lab I.D.	Sample I.D.	AB OR (C)OMP NTAINERS UNDWATER TEWATER	/BASE: COOL	BTEX	194			
H403895		# CC	OTH DATE	TIME	•	+		
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PLEASE NOTE: Liability an analyses. All claims includin service. In no event shall Ca	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use of the above at the desirence or of	y claim arising whether based in contrac eemed waived unless made in writing an without limitation, business interruptions.	t or tort, shall be limited to the amount paid in direceived by Cardinal within 30 days after on loss of profits incurred by clictures of use, or loss of profits incurred by clictures are considered to the above at the days.	by the client for the completion of the applicablent, its subsidiaries, one or otherwise.	ē			
Relinquished By:	Relinquished By: Date: Date: Received By:	Received By:	is based about any of the spoke stated real	Phone Result:	☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:		
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Relinquished By:		Received By:		Pur	nnels &	runnels 270 gma, 1. Con	1, lon	,-

Sample Condition
Cool Intact
Cool Ares
No No

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Time:

[†] Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



September 23, 2015

GREG GREGSON MARK L. SHIDLER 1313 CAMPBELL ROAD BLDG. D HOUSTON, TX 77055

RE: NM STATE I-30

Enclosed are the results of analyses for samples received by the laboratory on 09/17/15 14:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



MARK L. SHIDLER GREG GREGSON 1313 CAMPBELL ROAD BLDG. D HOUSTON TX, 77055 Fax To:

Received: 09/17/2015 Sampling Date: 09/17/2015 Reported: 09/23/2015 Sampling Type: Soil

Project Name: NM STATE I-30 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: LEA

Sample ID: FRONT WELL-HEAD (H502446-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/18/2015	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/22/2015	ND	204	102	200	3.89	
				ND		107	200	7.00	

Surrogate: 1-Chlorooctane 62.8 % 47.2-157
Surrogate: 1-Chlorooctadecane 76.7 % 52.1-176

Sample ID: CENTER- LOCATION (H502446-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/18/2015	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/22/2015	ND	204	102	200	3.89	

Surrogate: 1-Chlorooctane 70.0 % 47.2-157
Surrogate: 1-Chlorooctadecane 91.4 % 52.1-176

Cardinal Laboratories *=Accredited Analyte

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MARK L. SHIDLER GREG GREGSON 1313 CAMPBELL ROAD BLDG. D HOUSTON TX, 77055 Fax To:

 Received:
 09/17/2015
 Sampling Date:
 09/17/2015

 Reported:
 09/23/2015
 Sampling Type:
 Soil

Project Name: NM STATE I-30 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: LEA

Sample ID: S.E. DEADMAN (H502446-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/18/2015	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/22/2015	ND	204	102	200	3.89	
DRO >C10-C28	500	50.0	09/22/2015	ND	215	107	200	7.00	
Surrogate: 1-Chlorooctane	50.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	95.6	% 52.1-17	6						

Sample ID: S- WELL-HEAD (H502446-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/18/2015	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/22/2015	ND	204	102	200	3.89	
DRO >C10-C28	329	10.0	09/22/2015	ND	215	107	200	7.00	
Surrogate: 1-Chlorooctane	67.9	% 47.2-15	7						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

86.3 %

52.1-176



MARK L. SHIDLER GREG GREGSON 1313 CAMPBELL ROAD BLDG. D HOUSTON TX, 77055 Fax To:

 Received:
 09/17/2015
 Sampling Date:
 09/17/2015

 Reported:
 09/23/2015
 Sampling Type:
 Soil

Project Name: NM STATE I-30 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: LEA

Sample ID: N.E. DEADMAN (H502446-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/18/2015	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/22/2015	ND	204	102	200	3.89	
DRO >C10-C28	129	10.0	09/22/2015	ND	215	107	200	7.00	
Surrogate: 1-Chlorooctane	71.8	% 47.2-15	7						

Surrogate: 1-Chlorooctane 71.8% 47.2-157
Surrogate: 1-Chlorooctadecane 83.0% 52.1-176

Sample ID: N-WELL-HEAD (H502446-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1860	16.0	09/18/2015	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/22/2015	ND	204	102	200	3.89	
		50.0	09/22/2015	ND	215	107	200	7.00	

Surrogate: 1-Chlorooctane 78.6 % 47.2-157
Surrogate: 1-Chlorooctadecane 131 % 52.1-176

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

. (5/5) 333-2320 FAA (9/9) 393-24/0						
Company Name: MACK L. Ship ele		BILL TO			ANALYSIS KEQUEST	
0 6		P.O. #:				
		Company:				
State:	Zip:	Attn:				
Phone #: Fax #:		Address:				
Project #: Project Owner:		City:				
Project Name: NN SALP 1-30		State: Zip:				
Project Location:		Phone #:				
7		Fax #:				
1	MATRIX	PRESERV. SAMPLING				
Lab I.D. Sample I.D.	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER VASTEWATER GOIL DIL GLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	Clerio	TPH		
1. 1-10-1 mc/1-heto			8:30	11		
N. C.	\	an.	1	1		
Ti V-well-heto	\	71-19	1			
SALENDADMAN	\	9-17	1	1		
6. N-well-head		9.17				×
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Relinquished By: A	Received By:	IS DASSIG JUDITI ATIY OF THE AUTHER SHARES IT	Phone Result: Fax Result: REMARKS:	□ Yes □	No Add'l Phone #: No Add'l Fax #:	
Relinquished By:	Received By:					
2		111111111				

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

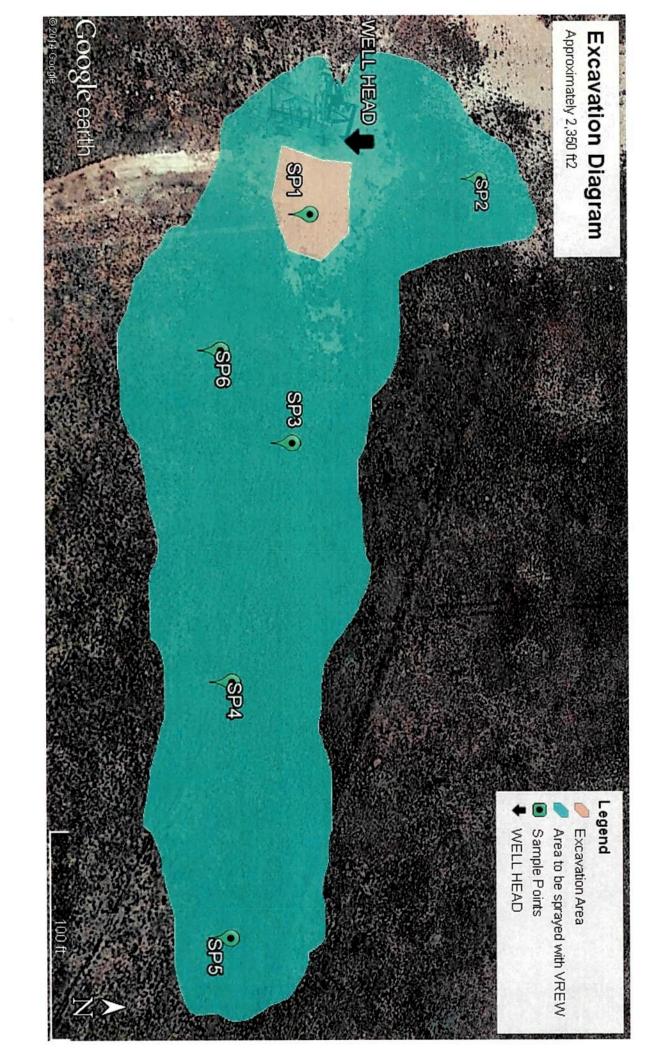
SAM	PLE	<u>PROJ</u>	<u>ECT</u>	<u>State</u>	<u> 1-30 Battery</u>
Sample #	Depth/FT C	HLORIDES	<u>TPH</u>	BTEX	
SP1	1	96	70500	N/A	
SP2	0.5	80	46400	3561.5	
SP3	1	1680	11410	N/A	
SP4	SURFACE	80	78.7	N/A	



Above Regulatory Limit Below Clean Drinking Water Standard Below Regulatory Limit







MARK L. SHIDLER, INC.

Site Map of Soil Samples

Not to scale Sample Date: 09/23/2015















MARK L. SHIDLER, INC. NM State No. 1-30 Lea Co., NM

Dec. 8, 2014 Release Area (Around Wellhead)

Further delineation of oil saturated soils north and south of Wellhead occurring on Oct. 28 and 29, 2015

Northside



Southside









November 09, 2015

GREG GREGSON

MARK L. SHIDLER

1313 CAMPBELL ROAD BLDG. D

HOUSTON, TX 77055

RE: NM STATE I-30

Enclosed are the results of analyses for samples received by the laboratory on 11/04/15 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



MARK L. SHIDLER GREG GREGSON 1313 CAMPBELL ROAD BLDG. D HOUSTON TX, 77055 Fax To:

Received: 11/04/2015 Sampling Date: 11/03/2015
Reported: 11/09/2015 Sampling Type: Soil

Project Name: NM STATE I-30 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA

Sample ID: SE WELL HEAD (H502915-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2015	ND	207	103	200	0.927	
DRO >C10-C28	99.1	10.0	11/05/2015	ND	211	105	200	0.0565	
Surrogate: 1-Chlorooctane	85.6	% 35-147	7						
G . 1 CH . 1	0.4.7	0/ 20 171							

Surrogate: 1-Chlorooctadecane 94.7 % 28-171

93.3 %

28-171

Sample ID: NW WELL HEAD (H502915-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2015	ND	207	103	200	0.927	
DRO >C10-C28	122	10.0	11/05/2015	ND	211	105	200	0.0565	
Surrogate: 1-Chlorooctane	83.9	% 35-147	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

11/03/2015



Analytical Results For:

MARK L. SHIDLER GREG GREGSON 1313 CAMPBELL ROAD BLDG. D HOUSTON TX, 77055 Fax To:

Sampling Date:

Received: 11/04/2015

Reported: 11/09/2015 Sampling Type: Soil

Project Name: NM STATE I-30 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA

Sample ID: SW WELL HEAD (H502915-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2015	ND	207	103	200	0.927	
		10.0	11/05/2015	ND	211	105	200	0.0565	

Surrogate: 1-Chlorooctane 70.9 % 35-147
Surrogate: 1-Chlorooctadecane 79.4 % 28-171

Sample ID: NE WELL HEAD (H502915-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2015	ND	207	103	200	0.927	
DRO >C10-C28	161	10.0	11/05/2015	ND	211	105	200	0.0565	
Surrogate: 1-Chlorooctane	90.7	% 35-147	7						

Surrogate: 1-Chlorooctane 90.7 % 35-147
Surrogate: 1-Chlorooctadecane 105 % 28-171

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

一人 一		ANALYSIS REQUEST
Project Manager: Grego Gregod	P.O. #:	
Address:	Company:	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	
Project Location: 57Ate 1-30	Phone #:	
Sampler Name: GAZY NORCHEAD	Fax #:	5
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	
Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH 88
SE Well Hear		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1 NW Well Head		
4 NE WEN HEAD		
PLEASE NOTE: Liability and Demonstrate Continued in the New York		
analyses. All dalms including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	claim arising whener cased in contract or fort, shall be limited to the amount paid by the clie med waived unless made in writing and received by Cardinal within 30 days after completio	ant for the applicable

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 391.2326 Sample Condition
Cool Intact
Yes 14 Yes
No No No

25.40

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Time: Date:

Relinquished By:

Relinquished By

Phone Result: Fax Result: REMARKS:

□ Yes

No No

Add'l Phone #: Add'l Fax #:

Page 5 of 5