

Work Plan Maverick Operating, LLC: Poker Lake Unit #036 |30-15-10859|2RP-4136|

September 8, 2017

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

Prepared For:

Maverick Operating, LLC 1004 N. Big Spring St. Ste. 121 Midland, TX 79701 Ms. Emily Sirgo

Maverick Operating, LLC
1004 N. Big Spring St. Ste. 121

Midland, TX 79701

Subject:

Soil Assessment and Remediation Work Plan

Maverick Operating, LLC Poker Lake Unit #36 |30-015-10859|2RP-4136|

Dear Ms. Sirgo

Maverick Operating, LLC (Maverick) has contracted Talon/LPE (Talon) to perform soil sampling and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The Maverick Poker Lake Unit #36 is located approximately forty (40) miles southeast of Carlsbad, New Mexico. The legal location for this facility is Unit Letter P, Section 28, Township 25S South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude are 32.1828346 North and -103.7763062 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Berino complex with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer database, the ground water in this area is approximately 390-feet below ground surface (BGS). The referenced ground water data is presented in Appendix II. Therefore the ranking for this site is a **0** based on the following:

Depth to ground water >100'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and the recommended guideline for Total Chlorides is 1,000 mg/kg.

Incident Description

A pump issue caused a tank overflow which resulted in the loss of approximately 40bbls of produced water. A vacuum truck was utilized to recover standing fluid. Approximately 32bbls of produced water were recovered.

Talon was contracted to perform a site assessment within the impacted battery utilizing a hand auger. Upon receipt of analytical results from the hand auger sampling it was determined that further vertical delineation would be required. A backhoe was mobilized to the site and was also unable to achieve vertical delineation based on NMOCD guidelines. After a site meeting with NMOCD on June 24, 2017 it was decided that the best course of action would be to utilize an air rotary drilling rid to advance a soil boring between sample locations S-2 and S-3 as this was the "worst case location" without any infrastructure preventing equipment access. The results of our soil sampling activities are summarized in the tables below.

Laboratory Results

See Appendix IV for complete report of laboratory results.

Hand Auger Sampling

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	0.527	7000	<100	9350
S-1	1	<03.00	2000	<10.0	11.0
S-1	2		496		
S-1	3		2520		
S-1 Refusal	4		8200		
S-2	0	< 0.300	12000	<100	1680
S-2	1	< 0.300	5400	<10.0	<10.0
S-2	2	< 0.300	82000	<10.0	<10.0
S-2 Refusal	3		11600		
S-3	0	< 0.300	16800	<10.0	121
S-3	1	< 0.300	5060	<10.0	<10.0
S-3	2	< 0.300	12800		
S-3 Refusal	3		10600		
S-4	0	< 0.300	208	<10.0	48.2
S-4	1	< 0.300	112	<10.0	<10.0

Soil Boring

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
B-1	5		5120		
B-1	10		2800		
B-1	15		1010		
B-1	20		912		
B-1	25		800		(
B-1	30		1170		
B-1	35		1100		
B-1	40		768		
B-1	45		960		
B-1	50		1480		
B-1	55		1090		
B-1	60		880		
B-1	65		16		

(--) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and the recommended guideline for Total Chlorides is 650 mg/kg

Proposed Remedial Actions

- The impacted area on the south side of the battery in the vicinity of sample locations S-2 and S-3 will be excavated to a depth of 4-feet BGS.
- A 20-mil liner will be installed at the bottom of the excavation to encapsulate the remaining chloride impacts.
- The impacted area around the tanks in the vicinity of sample location S-1 will be excavated to the maximum extent feasible without threatening the structural integrity of the tanks. A minimum of 1-foot of soil will be removed from this area to address the TPH issues above RRAL's.
- The excavation will be backfilled with clean caliche and contoured to match the surrounding location.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE

Sheldon L. Hitchcock

Project Manager

David J. Adkins District Manager

Attachments

Appendix I Site Plan

Appendix II Groundwater Data

Appendix III Initial C-141

Appendix IV Laboratory Results

APPENDIX I SITE PLAN



APPENDIX II GROUNDWATER DATA



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Sub-

QQQ

Code basin County 64 16 4 Sec Tws Rng

Depth Depth Water Distance

Well Water Column

C 02250

POD Number

3 1 4 21 25S 31E

614912 3553620* 1983

400 390

Average Depth to Water:

390 feet

Minimum Depth:

390 feet

Maximum Depth:

390 feet

Record Count: 1

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 615429

Northing (Y): 3551705

Radius: 2000

*UTM location was derived from PLSS - see Help

APPENDIX III INITIAL C-141

Received 3/6/2017 NMOCD Dist 2

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 1270 S. St. Francis Dr., Santa Fe, NM 8750

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.

1220 S. St. Fran	cis Dr., Santa	Fe, NM 87505		Sa	nta Fe	, NM 875	05				
			Rele	ase Notific	ation	and Co	rrective A	ction			
NAB 17	06931	6784		DOMI	0	OPERA'	ror	X	∫ Initia	l Report	Tinal Report
Name of Co	mpany	Maverick Operat	ing, LLC	387101	7 (Contact I	Emiły Sirgo -	· ACCI	EPTED	AS INI	TIAL REPORT
Address		Spring Street,	Sulte 121	, Midland, TX, 797		Felephone P	THE REAL PROPERTY AND PROPERTY OF THE PROPERTY	500	***************************************		managaritati managaritati managaritati managaritati managaritati managaritati managaritati managaritati managar
Facility Nar	ne Pol	er Leke Unit #3	8		1	Pacility Typ	e Injection Bat	Itery			
Surface Ow	ner Fe	derel	***************************************	Mineral C	wner	Federal			API No	, 3001510	085900
		######################################		A. 1800 M. W. W. M. C.		OF REI	TRASE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County	
P	28	245	31E	680	So	uth	660	Eas	1	Eddy	
		270			L			<u> </u>			
			La	titude <u>32.1827</u>	'50	_ Longitud	le103.775710)			
				NAT	'URE	OF REL	EASE				
Type of Rele	MAN V	lt Water				Volume of				ecovered	32
Source of Re		Water Tank					lour of Occurrence	æ	Date and	Hour of Di	scovery 2/28/2017 PM
Was Immedi	ate Notice C		Yes [No Not R	equired	If YES, To	Operator and Mike	Bratcher			
By Whom?					- 1	Date and I	lour 2/26/2017	PM			
Was a Water	course Read	hed?					olume Impacting		course.		
			Yes X] No							
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	•		<u> </u>					
											ļ
Describe Car	use of Probl	em and Reme	dial Actio	n Taken.* Head sv	vitch at dis	sposal pump ho	ing and pumped wal	ter tanks er	nply. Pump	then became	air locked/stuck
				uck upon notice of s							
		Julie Calloa Cot					,,				,
		is pumping fluid									
l		and Cleanup									
Area eff	ected around	tenks inside the	firewall. Ve	ccumed up fluid, sci	eped dirty	soil up and R3	80 to haul dirt. Made	e sure firew	all was buil	t up after clea	anup.
I hereby cert	ify that the	information o	von abov	e is true and comp	lete to t	he hest of my	knowledge and	understan	d that nur	sugnt to NA	AOCD rules and
regulations a	ll operators	are required t	o report a	nd/or file certain	release n	otifications a	and perform corre	ctive action	ns for rel	eases which	h may endanger
public health	or the envi	ronment. The	acceptan	ce of a C-141 rep	ort by the	e NMOCD n	narked as "Final F	Report" do	es not rel	ieve the op	erator of liability
should their	operations b	nave failed to	adequately	y investigate and i ptance of a C-141	remediat	e contaminat	ion that pose a thi	reat to gro	und wate	r, suriace v omnliance	vater, human health
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Printed Nam	e: Emily S	irgo				white ca o	PHAILOITHICH(S)	ppecialist:			
Title:						Approval Da	ate: 3/10/		xpiration	Date:	IA
E-mail Addr	ess: emily	@mogo-kec.cor	n			Conditions of	of Approval:	,			. 1031
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						('OA	on H	7.IS			

APPENDIX IV LABORATORY RESULTS



April 03, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: POKER LAKE UNIT 36

Enclosed are the results of analyses for samples received by the laboratory on 03/24/17 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/qa/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.

Celes D. Keens

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



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

03/24/2017

Sampling Date:

03/23/2017

Reported:

04/03/2017

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 36

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: S-1 0' (H700789-01)

BTEX 8021B	mg/kg		Analyzed By: MS				· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2017	ND	1.88	93.8	2.00	0.209	
Toluene*	0.145	0.050	03/28/2017	ND	1.82	90.8	2.00	0.238	
Ethylbenzene*	0.060	0.050	03/28/2017	ND	1.83	91.6	2.00	0.142	
Total Xylenes*	0.322	0.150	03/28/2017	ND	5.26	87.7	6.00	0.0853	
Total BTEX	0.527	0.300	03/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 72-148	3						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7000	16.0	03/27/2017	ND	432	108	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	<100	100	03/28/2017	ND	184	92.0	200	2.70	
DRO >C10-C28	9350	100	03/28/2017	ND	193	96.5	200	2.06	
Surrogate: 1-Chlorooctane	77.2	% 25.1-15	78						
Surrogate: 1-Chlorooctadecane	2149	% 26.8-17	20						

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*=Accredited Analyte

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Celey & Keine



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

03/24/2017

Reported:

04/03/2017

Project Name:

POKER LAKE UNIT 36

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

03/23/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: S-1 1' (H700789-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2017	ND	1.88	93.8	2.00	0.209	
Toluene*	<0.050	0.050	03/28/2017	ND	1.82	90.8	2.00	0.238	
Ethylbenzene*	<0.050	0.050	03/28/2017	ND	1.83	91.6	2.00	0.142	
Total Xylenes*	<0.150	0.150	03/28/2017	ND	5.26	87.7	6.00	0.0853	
Total BTEX	<0.300	0.300	03/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.7	% 72-148			***************************************				
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	03/28/2017	ND	432	108	400	10.5	QM-07
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	03/28/2017	ND	184	92.0	200	2.70	
DRO >C10-C28	11.0	10.0	03/28/2017	ND	193	96.5	200	2.06	
Surrogate: 1-Chlorooctane	95.1	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	101 9	% 26.8-17	0						

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*=Accredited Analyte

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/24/2017

Sampling Date:

03/23/2017

Reported:

04/03/2017

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 36

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: S-1 2' (H700789-03)

BTEX 8021B	mg/kg		Analyzed By: MS					····	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2017	ND	1.77	88.5	2.00	1.48	
Toluene*	<0.050	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13	
Total Xylenes*	<0.150	0.150	03/29/2017	ND	5.00	83.3	6.00	1.90	
Total BTEX	<0.300	0.300	03/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.2 9	% 72-148	}						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/28/2017	ND	432	108	400	10.5	
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	03/28/2017	ND	184	92,0	200	2.70	
DRO >C10-C28	<10.0	10.0	03/28/2017	ND	193	96.5	200	2.06	
Surrogate: 1-Chlorooctane	91.1 9	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	92.9	% 26.8-17	70						

Sample ID: S-1 3' (H700789-04)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM		4.4				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	03/29/2017	ND	432	108	400	3.64	

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*=Accredited Analyte

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

03/24/2017

Sampling Date:

03/23/2017

Reported:

04/03/2017

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 36

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: S-1 4' REFUSAL (H700789-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8200	16.0	03/30/2017	ND	416	104	400	0.00	

Sample ID: S-2 0' (H700789-06)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2017	ND	1.77	88.5	2.00	1.48	
Toluene*	0.064	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13	
Total Xylenes*	<0.150	0.150	03/29/2017	ND	5.00	83,3	6.00	1.90	
Total BTEX	<0.300	0.300	03/29/2017	ND					

Surrogate:	4-Bromofluorobenzene	(PIL

195 %

26.8-170

,	96.9	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM				in in contract to the contract		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	03/28/2017	ND	432	108	400	10.5	
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	<100	100	03/28/2017	ND	184	92.0	200	2.70	
DRO >C10-C28	1680	100	03/28/2017	ND	193	96.5	200	2.06	

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg & Keens



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/24/2017

Sampling Date:

03/23/2017

Reported:

04/03/2017

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 36

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: S-2 1' (H700789-07)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS			**************************************	000000000000000000000000000000000000000	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2017	ND	1.77	88.5	2.00	1.48	
Toluene*	<0.050	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13	
Total Xylenes*	<0.150	0.150	03/29/2017	ND	5.00	83.3	6.00	1.90	
Total BTEX	<0.300	0.300	03/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.7%	6 72-148							
Chloride, SM4500Cl-B	mg/l	(g	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5400	16.0	03/28/2017	ND	432	108	400	10.5	
TPH 8015M	mg/	⟨g	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	03/28/2017	ND	184	92.0	200	2.70	
DRO >C10-C28	<10.0	10.0	03/28/2017	ND	193	96.5	200	2.06	
Surrogate: 1-Chlorooctane	101 %	6 25.1-15	8						
Surrogate: 1-Chlorooctadecane	100 %	6 26.8-17	0						

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*=Accredited Analyte

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Celeg & Keine



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

03/24/2017

Sampling Date:

03/23/2017

Reported:

04/03/2017

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 36

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: S-2 2' (H700789-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2017	ND	1.77	88.5	2.00	1.48	
Toluene*	<0.050	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13	
Total Xylenes*	<0.150	0.150	03/29/2017	ND	5.00	83.3	6.00	1.90	
Total BTEX	<0.300	0.300	03/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.0	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM			w		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8200	16.0	03/28/2017	ND	432	108	400	10.5	
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	03/28/2017	ND	184	92.0	200	2.70	
DRO >C10-C28	<10.0	10.0	03/28/2017	ND	193	96.5	200	2.06	
Surrogate: 1-Chlorooctane	81.3	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	81.5	% 26.8-17	0						

Sample ID: S-2 3' REFUSAL (H700789-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	03/29/2017	ND	432	108	400	3.64	

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/24/2017

Sampling Date:

03/23/2017

Reported:

04/03/2017

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 36

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: S-3 0' (H700789-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS	mandonomic nei medita utili di Handa etc		<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2017	ND	1.77	88.5	2.00	1.48	
Toluene*	<0.050	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13	
Total Xylenes*	< 0.150	0.150	03/29/2017	ND	5.00	83.3	6.00	1.90	
Total BTEX	<0.300	0.300	03/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.8 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	03/28/2017	ND	432	108	400	10.5	
TPH 8015M	mg/	kg	Analyze	d By: MS				10000	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/28/2017	ND	193	96.7	200	0.392	
DRO >C10-C28	121	10.0	03/28/2017	ND	206	103	200	0.956	QM-07
Surrogate: 1-Chlorooctane	81.7	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	93.1	% 26.8-17	0						

Surrogate: 1-Chlorooctadecane 93.1 % 26.8-170

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TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

03/24/2017

Sampling Date:

03/23/2017

Reported:

04/03/2017

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 36

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: S-3 1' (H700789-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS	30.6				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2017	ND	1.77	88.5	2.00	1.48	
Toluene*	<0.050	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13	
Total Xylenes*	<0.150	0.150	03/29/2017	ND	5.00	83,3	6.00	1.90	
Total BTEX	<0.300	0.300	03/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.3 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM		24000			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5060	16.0	03/28/2017	ND	432	108	400	10.5	
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	03/28/2017	ND	193	96.7	200	0.392	
DRO >C10-C28	<10.0	10.0	03/28/2017	ND	206	103	200	0.956	
Surrogate: 1-Chlorooctane	91.4	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	91.7	% 26.8-17	0						

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TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

03/24/2017

Sampling Date:

03/23/2017

Reported:

04/03/2017

Sampling Type:

Soil

Project Name:

POKER LAKE UNIT 36

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: S-3 2' (H700789-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2017	ND	1.77	88.5	2.00	1.48	
Toluene*	<0.050	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	03/29/2017	ND	1.74	87.2	2.00	2,13	
Total Xylenes*	<0.150	0.150	03/29/2017	ND	5.00	83,3	6.00	1.90	
Total BTEX	<0.300	0.300	03/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	03/28/2017	ND	432	108	400	10.5	
TPH 8015M	mg/	kg	Analyze	d By: MS			- All Control		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/28/2017	ND	193	96.7	200	0.392	
DRO >C10-C28	<10.0	10.0	03/28/2017	ND	206	103	200	0.956	
Surrogate: 1-Chlorooctane	85.9	% 25.1-158							
Surrogate: 1-Chlorooctadecane	90.4	% 26.8-170							

Sample ID: S-3 3' REFUSAL (H700789-13)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	03/29/2017	ND	432	108	400	3.64	

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

03/24/2017

Reported:

04/03/2017

Project Name:

POKER LAKE UNIT 36

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

03/23/2017 Soil

Sampling Condition:

Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: S-4 0' (H700789-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS		······································			×
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2017	ND	1.77	88.5	2.00	1.48	
Toluene*	<0.050	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13	
Total Xylenes*	<0.150	0.150	03/29/2017	ND	5.00	83.3	6.00	1.90	
Total BTEX	<0.300	0.300	03/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.0 9	6 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM	to the state of th				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/28/2017	ND	432	108	400	10.5	
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	03/28/2017	ND	193	96.7	200	0.392	
DRO >C10-C28	48.2	10.0	03/28/2017	ND	206	103	200	0.956	
Surrogate: 1-Chlorooctane	88.8 9	% 25.1-158	}						
Surrogate: 1-Chlorooctadecane	95.0 %	6 26.8-170)						

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: Reported: 03/24/2017

04/03/2017

Project Name: Project Number: POKER LAKE UNIT 36

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

03/23/2017

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S-4 1' (H700789-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2017	ND	1.77	88.5	2.00	1.48	
Toluene*	<0.050	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13	
Total Xylenes*	<0.150	0.150	03/29/2017	ND	5.00	83.3	6.00	1.90	
Total BTEX	<0.300	0.300	03/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.0	% 72-148							
Chloride, SM4500CI-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	03/28/2017	ND	432	108	400	10.5	
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	03/28/2017	ND	193	96.7	200	0.392	
DRO >C10-C28	<10.0	10.0	03/28/2017	ND	206	103	200	0.956	
Surrogate: 1-Chlorooctane	80.8	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	86.0	% 26.8-17	0						

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Celeg & Kreene



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.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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 & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/I DE		State that the state of the sta	
Project Manager: D. Hdniv		TO At-	ANALYSIS REQUEST
Address: 408 W. Texas Ave.		Company: Talon/I DE	
	State: NM zip: 88210	Attn:	
Phone #: 575-746-8768 Fax #: 575-	Fax #: 575-746-8905	Address:	
Project #: Project Owner:	• •	City:	
Project Name: Portor Lake Chrit >	36	State: 7in:	
Project Location:		*	
Sampler Name: D. Ahius		Fav #	
FOR LAB USE ONLY	MATRIX	ESEBA	
		TARGENY, SAMPLING	<u>-</u>
Lab I.D. Sample I.D.)RAB OR (C)OI CONTAINERS ROUNDWATER ASTEWATER DIL L UDGE	HER: ID/BASE: E/COOL HER:	PH 3TEX World
15-10			1
25-11	€	-	
3 5 - 1 2	G /	h3;2]	
4 5-13	S -	1 12:56	
5 5-14 repusal	ि ।	12:58	
65-20	←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←←<		/
75-21	€	7 1:12	
22-58	6		
9 5-23 ropus a	\rightarrow \cdot \rightarrow \cdot \rightarrow \right		
10 5-3 O	9 (7.30	
makes not at: Liability and Danages. Condinate liability and client's exclusive remedy for any claim arising whether based in contract or lost, shall be limited to the amount paid by the client for the makes including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by Contract which not a client for the	ly claim arising whether based in contract eemed waived unless made in writing and	or lon; shall be limited to the amount paid by the client	for the
ervice. In no event shall Cardinal be liable for incidental or consequental diamanae. Including	eerined waived unless made in writing and	received by Cardinal within 30 days after completion	if the applicable

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Relinquished By:

Time:

Phone Result: Fax Result: REMARKS:

Yes

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

Stop CI IF 5 250 mg/16

Received By:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Contractly Marine: UOD/ UT		Article (Article (Art	and following and a second	ALIAI VOID PIPOLIPIAN
Project Manager:		P.O. #:	And the conduction of the cond	ANALISIS REQUEST
Address: 408 W. Texas Ave.		Company: Talon/LPE		
City: Artesia state: NM	State: NM Zip: 88210	1		
-746-8768 F	Fax #: 575-746-8905	Address:		
Project #: Project Own	Project Owner: May crick	city:		
Project Name: Poker Lake Unit 36		State: Zip:		
Project Location:		*		
Sampler Name: P. Adhins		Fax #:	The state of the s	
FOR LAB USE ONLY	MATRIX	PRESERV SAMPLING	5	
	R		d-e	
Lab I.D. Sample I.D.)RAB OR (C)C CONTAINERS ROUNDWATEI ASTEWATER DIL L UDGE	HER: ID/BASE: E/COOL HER:	TPH 3TEX Culeri	
1/ 5-3 1/	v v s	A	7	
12 5-32		_	7 / / p	
13, 5-33' repubal	で 1 う		2	
14 5-40	<u>e</u> .	0h; 11	0	
15-53	6 ()	24:11	(2 / / /	
16 5-42	6 (hp; 11	4	
17 5-43, LERUSON	- 6	95.1	6	
RIEASE NOTE: Liably and Damanes, Cardinate liability and clients, authority				
analyses. All claims including those for negligence and any other cause whalsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	deemed waived unless made in writing an	or our, snaw on united to the amount paid by the ca d received by Cardinal within 30 days after completion	ent for the epplicable	

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Relinquished By:

Time:

Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No

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

クイケの・プ Date:

Received By:

imara i

CHECKED BY:

5+08 CT if 5 250 mg/kg

No. Interest



August 24, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MAVERICK POKER LAKE #36

Enclosed are the results of analyses for samples received by the laboratory on 08/18/17 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.

Celeg 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



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

08/18/2017

Sampling Date:

08/17/2017

Reported:

08/24/2017

Sampling Type:

Soil

Project Name:

MAVERICK POKER LAKE #36

Sampling Condition:

Cool & Intact

Project Number:

70221.001.01

Sample Received By:

Tamara Oldaker

Project Location:

MAVERICK OPER. - EDDY CO NM

Sample ID: B-1 5' (H702216-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					······
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	5120	16.0	08/23/2017	ND	416	104	400	7.41	
Sample ID: B-1 10' (H70)	2216-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	2800	16.0	08/23/2017	ND	416	104	400	7.41	
Sample ID: B-1 15' (H702	2216-03)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
,	Result 1010	Reporting Limit	Analyzed 08/23/2017	Method Blank ND	BS 416	% Recovery	True Value QC 400	RPD 7.41	Qualifie
Analyte Chloride Sample ID: B-1 20' (H70)	1010		,			•	•		Qualifie
Chloride Sample ID: B-1 20' (H70)	1010	16.0	,	ND		•	•		Qualifiei
Chloride	1010 2216-04)	16.0	08/23/2017	ND		•	•		Qualifier Qualifier

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 negigence 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

08/18/2017

Sampling Date:

08/17/2017

Reported:

08/24/2017

Sampling Type:

Soil

Project Name:

MAVERICK POKER LAKE #36

Sampling Condition:

Cool & Intact

Project Number:

70221.001.01

Sample Received By:

Tamara Oldaker

Project Location:

MAVERICK OPER. - EDDY CO NM

Sample ID: B-1 25' (H702216-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/23/2017	ND	432	108	400	0.00	QM-07

Sample ID: B-1 30' (H702216-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	08/23/2017	ND	432	108	400	0.00	

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Celeg D. Keine



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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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Cley & Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	ANALYSIS KEQUES!
70221.001.01	
Company: Talon/LPE	
5	
<u>ا</u>	
0	
2 (
SAMPLING	
CHLC	
TIME	
8/17/17 1030	
1040	
1050	
1/00	
11/0	
1/20	
TIM (1/2)	State: NM Zp: 88210 Attn: D-Ablains Phone #: 575-746-8768 Fax #: 575-746-8905 Address: Project #: 70221.001.01 Project Owner: Manual Device Ope. City: Project Name: Mount Lock Abla Loke # 36 Project Name: D-Ablain Loke # 36 Project Location: E d dy C and Hy N M Phone #: Sampler Name: D-Ablain D-Ablain Loke # 36 Sampler Name: D-Ablain

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

Relinquished By:

Date: Time:



September 05, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MAVERICK POKER LAKE #36

Enclosed are the results of analyses for samples received by the laboratory on 08/28/17 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/qa/lab accred certif.html.

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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. Keens

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



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

08/28/2017

Sampling Date:

08/17/2017

Reported:

09/05/2017

Sampling Type:

Soil

Project Name:

MAVERICK POKER LAKE #36

Sampling Condition:

** (See Notes)

Project Number:

Sample Received By:

Tamara Oldaker

Project Location:

Analyte

Analyte

Analyte

Analyte

70221,001.01

MAVERICK OPER. - EDDY CO NM

Reporting Limit

Reporting Limit

Reporting Limit

Reporting Limit

16.0

Sample ID: B-1 35' (H702276-01)

Ch	lor	ide,	, SM	450	00C	I-B

mg/kg

Analyzed By: AC

Analyzed

Analyzed

True Value QC

RPD Qualifier

Chloride

Result 1100

16.0 08/31/2017 Method Blank ND

BS 432 % Recovery 108

400

Sample ID: B-1 40' (H702276-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

% Recovery

0.00

Chloride

Result 768

16.0 08/31/2017 Method Blank ND

BS 416

104

True Value QC 400

RPD Qualifier

Sample ID: B-1 45' (H702276-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank BS % Recovery

True Value QC

RPD

3.77

Qualifier

Chloride

Chloride

Result 960

Result

1480

16.0

% Recovery

104

08/31/2017

ND

416

BS

416

104

400

3.77

Sample ID: B-1 50' (H702276-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

08/31/2017

Method Blank

ND

True Value QC

400

RPD

3.77

Qualifier

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celley D. Keine



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

08/28/2017

Sampling Date:

08/17/2017

Reported:

09/05/2017

Sampling Type:

Soil

Project Name:

MAVERICK POKER LAKE #36

Sampling Condition: Sample Received By:

** (See Notes) Tamara Oldaker

Project Number:

70221,001.01

Project Location:

Analyte

Analyte

Analyte

MAVERICK OPER. - EDDY CO NM

Sample ID: B-1 55' (H702276-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

% Recovery

104

True Value QC

RPD

3.77

Chloride

Result 1090 Reporting Limit 16.0

Reporting Limit

Analyzed 08/31/2017 Method Blank ND

BS 416

400

Qualifier

Sample ID: B-1 60' (H702276-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed Method Blank

BS

% Recovery

True Value QC

Qualifier

Chloride

880

Result

16.0

Result

16.0 08/31/2017 ND

416

104

400

RPD 3.77

Sample ID: B-1 65' (H702276-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Reporting Limit

16.0 08/31/2017 ND

416

104

400

3.77

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*=Accredited Analyte

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Celeg & trens

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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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Celey D. Keene

CARDINAL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marfand, Hobbs, NM 88240 (576) 393-2326 FAX (575) 393-2476 Project Warner Tailon/LPE Project Warnager: 14 Hol. cg 人と Company: Tailon/LPE City: Articesia State: NM Zip: 88210 Attn: Phone #: 575-746-8768 Fax#: 575-746-8905 Address: Project Warnager: State: NM Zip: 88210 Attn: Phone #: 575-746-8768 Fax#: 575-746-8905 Address: Project Name: May Vev. cgl. Policat Downer: Naw.vick O/Pec. city: Project Location: Ed. A. D. Car. Logic H. S. State: Zip: Project Name: May Vev. cgl. Policat Downer: Phone #: Sampler Name: A. D. A. D. C. V. State: Zip: Phone #: Sampler Name: A. D. A. D. C. V. State: Zip: Phone #: Sampler Name: A. D. Sample I.D.	State: NM Zp: 88210 State: NM Zp: 88210 Fax #: 575-746-8905 Project Owner: Nalve to the to	P.O. #: P.	TIME TIME OF TOTAL Style client for the re completion for the for the subscillation, applicable for the subscillation, applicable	ANALYSIS REQUEST	
Relinquished By: Relinquished By: Relinquished By: Relinquished By: Relinquished By: Received B	Received By: Re	The character and of the above school as the character and	Phone Regult: ☐ Yes ☐ No Flore Result: ☐ Yes ☐ No Fax Result: ☐ Yes ☐ No Flore Return RKS:	No Add'i Phone 禁:	

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