

October 10, 2012

Mr. Mike Bratcher **NMOCD District 2**

1301 West Grand Avenue Artesia, NM 88210

Subject:

Soil Assessment and Remediation Work Plan Judah Oil, LLC Cedar Lake SWD Unloading Station

Dear Mr. Bratcher,

Judah Oil has contracted Talon/LPE (Talon) to perform confirmation soil sampling activities at the referenced Cedar Lake SWD Unloading Station. The results of our soil assessment and proposed remediation activities consist of the following:

Background Information

The Cedar Lake SWD Unloading Station is located approximately thirty (30) miles east of Artesia, New Mexico. The legal location for the site is Section 29, Township 17 South and Range 31 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the location are 32.81053 North and -103.88457 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Kermit-Berino complex with 0 to 3 percent slopes, eroded. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to Pleistocene in age and is comprised of eolian sands and piedmont deposits which include silty soils under lain with hard caliche. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 325-feet below land surface according to the Texaco/Chevron Eddy County Water Trend Data Map (2005).

The ranking for this site is 0 based on the as following:

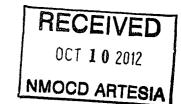
Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

Toll Free: 866.742.0742 www.talonlpe.com

Incident Description

On August 19, 2012 the Cedar Lake SWD Unloading Station was struck by lightning. All tanks were burnt causing a release of 11,910 barrels of produced water and 942 barrels of oil. The fluid was contained in the tank facility pit area. A vacuum truck was called to recover the standing fluid.



Suite 202 Austin, Texas 78757 Phone 512,989,3428 Fax 512.989.3487 HOBBS 318 East Taylor Street

AUSTIN

AMARILLO

ARTESIA

921 North Bivins

Amarillo, Texas 79/07 Phone 806.467.0607 Fax 806.467.0622

408 West Texas Ave.

Fax 575.746.8905

Artesia, New Mexico 88210 Phone 575.746.8768

9II West Anderson Lane

Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658

> MIDLAND 290I State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

SAN ANTONIO II Commercial Place Schertz, Texas 78154 Phone 210.265.8025 Fax 210.568.2191

TULSA 525 South Main Street Suite 535 Tulsa, Oklahoma 74103 Phone 918,742,0871 Fax 918.382.0232

Actions Taken

On September 13, 2012 Talon/LPE mobilized personnel to the site to carry out soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing an air rotary drill rig and split spoon sampling techniques. Grab samples were collected to a depth of 30-feet below land surface. A site map is attached.

On September 27, 2011 Talon returned to the site to collect additional soil samples utilizing a track hoe. Grab samples were collected to a depth of 10-feet below land surface.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for volatile organics (BTEX) per EPA Method 8021B, Total Petroleum Hydrocarbons (TPH) per EPA Method 8015M, and total chlorides via Method SM 4500Cl-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

Sample	Depth	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH</u> (mg/kg)
BH-1	0' 2' 4' 6' 8' 10' 15' 20' 25' 30'	<0.150 <0.150 <0.150 <0.150 	4800 3200 8500 288 64 64 96 288 112 96	132 <10 <10 <10
BH-2	0' 2' 4' 6' 8' 10' 15' 20' 25' 30'	4.571 0.058 <0.150 <0.150 	1170 16 32 16 32 48 48 48 128 48 64	2238 <10 <10 <10

September 21, 2012

--Analyte Not Tested

October 5, 2012

Sample	<u>Depth</u>	BTEX	Chlorides	<u>TPH</u> (mg/kg)
S-3	0' 2' 4' 6' 8' 10'	<0.150 <0.150 	3480 32 96 128 416 32	54.7 <10
S-4	0' 2' 4' 6' 8' 10'	3.922 <0.150 	2960 16 <16 32 <16 48	3090 <10
S-5	0' 2' 4' 6' 8' 10'	0.102 <0.150 	1170 <16 <16 <16 <16 <16	451 <10
S-6	0'	< 0.150	80	0
S-7	0'	< 0.150	<16	<10
S-8	0'	<0.150	<16	<10
S-9	0'	< 0.150	4240	<10
S-10	0'	< 0.150	16	<10

--Analyte Not Tested

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg. Chloride cleanup levels are considered to be 1,000 mg/kg.

Proposed Remedial Actions

- The impacted area will be excavated to a depth of 2-feet deep. The excavated soil will be transported to a NMOCD approved solid waste disposal facility.
- The sample location S-9 will not be excavated due to infrastructure being located above the sample location. The impacted sidewall was horizontally delineated by the sample location S-10.
- Confirmation samples will be collected from the bottom and sidewalls of the excavation and presented to the OCD for permission to complete excavation activities.
- Upon NMOCD approval of the confirmation samples, the entire tank battery will be relined.
- The excavated area will be backfilled using new material transported from a local borrow pit. The area will be contoured to match the surrounding location.
- New tanks and infrastructure will be installed and the facility brought back into service.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office, including Form C-141.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

mile Stublepill

Mike Stubblefield Project Manager

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David J. Adkins District Manager

SITE MAP

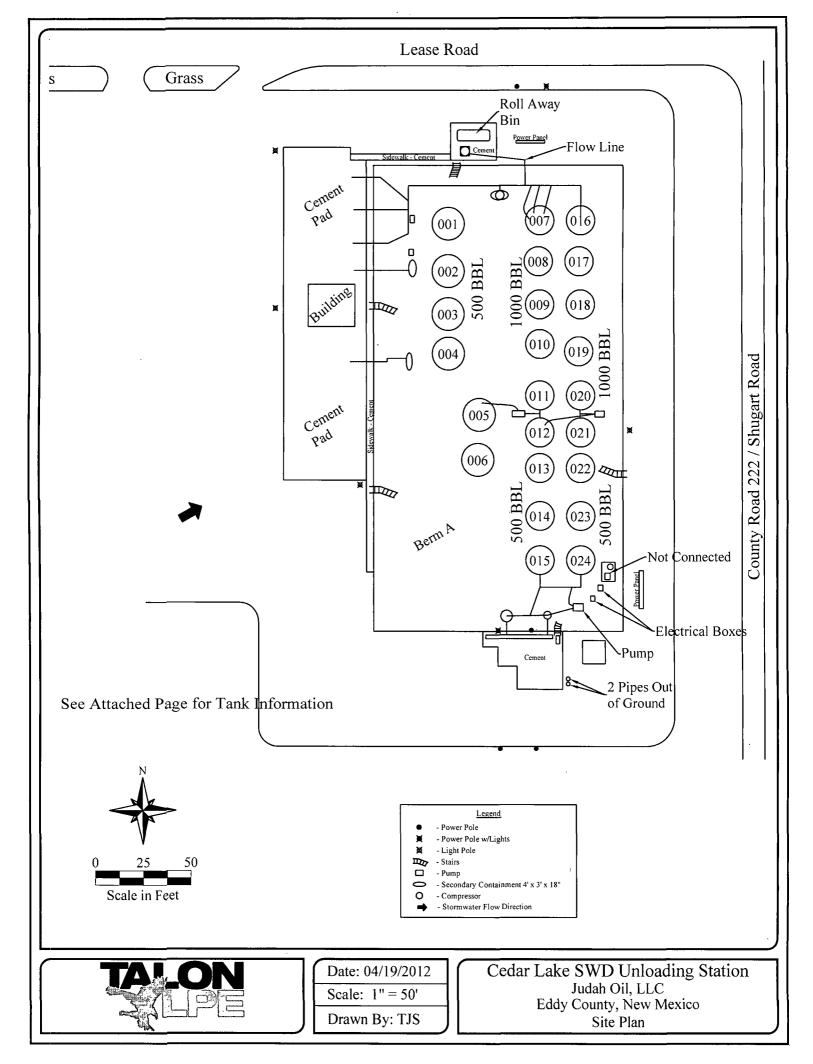
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Project Map / Site Diagram

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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.

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			Rele	ease Notific	catio	n and Co	orrective A	ction	1			
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		8 Artesia, N				Telephone						
Facility Nai	me Cedar	Lake Unloa	ding Stat	ion		Facility Typ	e SWD]
Surface Ow	mer B	LM		Mineral (Dwner	BLM	·····		API No). N/A		
			•	LOCA	ATIO	N OF RE	LEASE					
Unit Letter A	Section 29	Township 17S	Range 31E	Feet from the N/A		n/South Line	Feet from the N/A	East/V	West Line	County Eddy		
			La	titude		Longitue	le		_			
				NAT	TURF	OF REL	EASE					
Type of Rele	ase O	il and Water					Release 11,910	bbls	Volume I Not Knov	Recovered		·
Source of Re	elease 7	ank Facility				Date and I 8/19/2012 12:03 a.m.	Iour of Occurrenc	e	Date and 8/19/2012 12:03 a.n		covery	
Was Immediate Notice Given?						If YES, To 12:03 a.m.			alled OCD,	12:19 a.m.		
By Whom? James Campanella Date and Hour See Above												
Was a Water		:hed?	Yes 🗵] No		If YES, V	olume Impacting	the Wate	ercourse.			
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regulations a public health should their or the enviro	Il operators or the envi operations h onment. In a	are required t ronment. The ave failed to a	o report an acceptant adequately OCD accept	nd/or file certain ce of a C-141 rep investigate and	release ort by t remedia	notifications a he NMOCD n ate contaminat	knowledge and u nd perform correct arked as "Final R ion that pose a thu we the operator of	ctive act Report" of reat to g	tions for rel does not rel round wate	eases which ieve the ope r, surface w	may er rator of ater, hu	ndanger f liability uman health
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Signature: Printed Nam	e: James B	Campanella	<u>,/></u>			Approved by	Environmental S	Specialis	st:			
Title: Memb			<u></u>			Approval Da	te:		Expiration	Date:		
E-mail Addr	¥					Conditions of				Attached		
Date: 8/20	/2012		Phone	e: 575-746-1280								

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APPENDIX II

LABORATORY RESULTS



September 21, 2012

MIKE STUBBLEFIELD TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: CEDAR LAKE SWD UNLOADING STATION

Enclosed are the results of analyses for samples received by the laboratory on 09/14/12 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 1 0' (H202233-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	09/19/2012	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	132	10.0	09/19/2012	ND	172	86.1	200	12.5	
Surrogate: 1-Chlorooctane	80.1 \$	65.2-14	0						
Surrogate: 1-Chlorooctadecane	79.2 9	63.6-15	4						

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*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 1 2' (H202233-02)

STEX 8021B	mg,	/kg	Analyze	d By: AP				<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
enzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
oluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
thylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
otal Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	

	ing,	r Ky	Analyze	u by. 164					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	09/19/2012	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	
Surrogate: 1-Chlorooctane	79.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	80.9	% 63.6-15	4						

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager

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Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 1 4' (H202233-03)

BTEX 8021B	mg,	/kg	Analyze	d By: AP				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	< 0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	
Surrogate: 4-Bromofluorobenzene (PIL	99.4	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8500	16.0	09/19/2012	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	
Surrogate: 1-Chlorooctane	81.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.2	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 1 6' (H202233-04)

BTEX 8021B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/21/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/21/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/21/2012	ND	6.32	105	6.00	9.78	
Surrogate: 4-Bromofluorobenzene (PIL	99.6 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/19/2012	ND	416	104	400	0.00	
TPH 8015M	mg/l	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	
Surrogate: 1-Chlorooctane	70.6 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	66.1 %	63.6-15	4						

Sample ID: BH - 1 8' (H202233-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/19/2012	ND	416	104	400	0.00	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 1 10' (H202233-06)

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/19/2012	ND	416	104	400	0.00	

Sample ID: BH - 1 15' (H202233-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/19/2012	ND	416	104	400	0.00	

Sample ID: BH - 1 20' (H202233-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/19/2012	ND	416	104	400	0.00	

Sample ID: BH - 1 25' (H202233-09)

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	09/19/2012	ND	416	104	400	0.00	

Sample ID: BH - 1 30' (H202233-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/19/2012	ND	416	104	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 2 0' (H202233-11)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.200	0.200	09/21/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	0.721	0.200	09/21/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	1.01	0.200	09/21/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	2.84	0.600	09/21/2012	ND	6.32	105	6.00	9.78	
Surrogate: 4-Bromofluorobenzene (PID	109 \$	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM	·····				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1170	16.0	09/19/2012	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	Qualifie
GRO C6-C10	148	50.0	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	2090	50.0	09/19/2012	ND	172	86.1	200	12.5	
Surrogate: 1-Chlorooctane	87.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103 9	63.6-15	4						

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 2 2' (H202233-12)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result .	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.058	0.050	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	6.32	105	6.00	9.78	
Surrogate: 4-Bromofluorobenzene (PIL	100 \$	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/19/2012	ND	416	104	400	0.00	
ТРН 8015М	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	
Surrogate: 1-Chlorooctane	76.5	65.2-14	0						······································
Surrogate: 1-Chlorooctadecane	74.8	63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 2 4' (H202233-13)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	6.32	105	6.00	9.78	
Surrogate: 4-Bromofluorobenzene (PIE	99.4	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/19/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	
Surrogate: 1-Chlorooctane	80.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	78.1	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 2 6' (H202233-14)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	6.32	105	6.00	9.78	
Surrogate: 4-Bromofluorobenzene (PIL	99.1	89.4-12	6						
Chloride, SM4500Cl-B	_mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/19/2012	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	
Surrogate: 1-Chlorooctane	81.7	65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.3	63.6-15	4						

Sample ID: BH - 2 8' (H202233-15)

Chloride, SM4500Cl-B mg/kg		/kg	g Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/19/2012	ND	400	100	400	3.92	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 2 10' (H202233-16)

Chloride, SM4500Cl-B mg/kg		Analyzed By: HM				····			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2012	ND	400	100	400	3.92	

Sample ID: BH - 2 15' (H202233-17)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2012	ND	400	100	400	3.92	

Sample ID: BH - 2 20' (H202233-18)

Chloride, SM4500CI-B mg/kg		Analyze	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/19/2012	ND	400	100	400	3.92	

Sample ID: BH - 2 25' (H202233-19)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2012	ND	400	100	400	3.92	

Sample ID: BH - 2 30' (H202233-20)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/19/2012	ND	400	100	400	3.92	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon /LPE					B	ILL TO	1			AN	LYSIS	S RE	QUES	T	<u> </u>	
Project Manager: Mike STUBBLefield				P.O. #	ŧ;											
Address: 408 Wast Taxar Aur,				Comp	any:	Talos/LPE										
City: Arteria State:NM.	Zip:	. 8	0158	Attn:		, , , , , , , , , , , , , , , , , , ,										
Phone #: 55-441-7254 Fax #:				Addre	ss:							ļ				
Project #: 201484 003.01 Project Owner	: JL	oda	h 01/110	City:									ļl			
Project Name: CedAr Lake SWD unloading st				State:		Zip:										
Project Location: sec. 29. TINS_R3IE				Phon	e #:											
Sampler Name: mile Stulblifield				Fax #												
FOR LAB USE ONLY			MATRIX	PR	ESER	SAMPLING			5							
Lab I.D. Sample I.D. H202733	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE:	ICE / COOL	DATE TIME	BOISM TOH	8021B 87EX	Total chlorides							
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10 BH-1 30	<u>-%</u> -			<u>+</u> −	⊬.,	9/13/12 3:508				······	•••		· -			

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service. In the event shap contained or moderate or consequented damages, including words (interaction, outsides or last or loss or programmed)	med by them, its subsidiaries,
afiliates or successors arising out of or related to the performance of services berejunder by Cardinal vegrardless of whether such claim is based inon any of the above s	dated reasons or otherwise

Relinquished By:	Date:	Received By:	A 11	Phone Result:	🗆 Yes	🗆 No	Add'l Phone #:	
			\mathcal{I}	Fax Result:	□ Yes	🗆 No	Add'l Fax #:	
midel SUDDI:01	Time:	Xpann	- Meier	REMARKS:				
Relinquished By:	Date:	Received By:						
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	Time:							
Delivered By: (Circle One)		Sample Condition	CHECKED BY:					
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Talon / LPE			<u> </u>		Bl	LL TO	i di si	·			Al	VAL	YSIS	RE	QUE	ST		
	r: mike stubblefield				P.O.	. #:													
	408 WAT TOTAL RUC.				Con	npany: 7	alon/LPE	-											
City:	Artosia State: NA.	Zip	o: 8	8210	Attn	1:													
	575.441.7254 Fax #:				Add	ress:													
*····	201484.003.01 Project Owne	r: J.	ad	aboit LLC	City	:													
	Cedar Lake SWD voloading				Stat		Zip:												
	ocation: ecc. 79 - 775 - R31E				Pho	ne #:													
	mile (stullfill			•	Fax	#:													
FOR LAB USE ONLY		Ι.	Г	MATRIX	[i	PRESERV	SAMPLIN	G		×	د کار ع								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMI	# CONTAINERS	GROUNDWATER WASTEWATER Soll. Oll.	OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME	Holf m 16H	XZI- 8. D 1208	Total chlore								
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service. In no event shall Cardinal be liable for incidental or conseq affiliates or successors arising out of or related to the performance or									
Relinquished By:	Date: 9-14-12	Received By:	2.11	Phone Result: Fax Result:	C Yes	□ No □ No	Add'l Phone #: Add'l Fax #:		· · ·
Mile Shillifield	Time:	Received By:		REMARKS:					
	Time:	:							
Delivered By: (Circle One)	·	Sample Condition							
Sampler - UPS - Bus - Other			(Initials)						
† Cardinal cannot accept verbal of	hanges. Please	e fax written changes to (5	75) <u>39</u> 3-2326					_	Pa

Page 14 of 14



October 05, 2012 MIKE STUBBLEFIELD TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: CEDAR LAKE SWD UNLOADING STATION

Enclosed are the results of analyses for samples received by the laboratory on 09/28/12 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S ~ 3 0' (H202374-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	10/02/2012	ND	416	104	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	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	54.7	10.0	10/01/2012	ND	204	102	200	0.127	
Surrogate: 1-Chlorooctane	95.6	65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.5	63.6-15	4						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 3 2' BGS (H202374-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/i	kg	Analyze	d By: AP		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/02/2012	ND	416	104	400	3.92	
TPH 8015M	mg/l	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	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	<10.0	10.0	10/01/2012	ND	204	102	200	0.127	
Surrogate: 1-Chlorooctane	101 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	108 %	63.6-15	4						

Sample ID: S - 3 4' BGS (H202374-03)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/02/2012	ND	416	104	400	3.92	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 3 6' BGS (H202374-04)

Chloride, SM4500Cl-B	loride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/02/2012	ND	416	104	400	3.92	

Sample ID: S - 3 8' BGS (H202374-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	10/02/2012	ND	416	104	400	3.92		

Sample ID: S - 3 10' BGS (H202374-06)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/02/2012	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 4 0' (H202374-07)

BTEX 8021B	mg/kg		Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.613	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	1.01	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	0.399	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	1.90	0.150	10/03/2012	ND	6.06	101	6.00	9.48	
Surrogate: 4-Bromofluorobenzene (PIL	138	% 89.4-12	6				,*****,		
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	10/02/2012	ND	416	104	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	<100	100	10/01/2012	ND	202	101	200	0.481	

ND

204

102

200

0.127

10/01/2012

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane

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3090

106 %

172 %

100

65.2-140

63.6-154

DRO >C10-C28

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 4 2' BGS (H202374-08)

BTEX 8021B	mg/kg		Analyze	d By: AP			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	
Surrogate: 4-Bromofluorobenzene (PIE	102 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/02/2012	ND	416	104	400	3.92	
ТРН 8015М	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	<10.0	10.0	10/01/2012	ND	204	102	200	0.127	
Surrogate: 1-Chlorooctane	96.5 \$	65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 9	63.6-15	4						

Sample ID: S ~ 4 4' BGS (H202374-09)

hloride, SM4500Cl-B mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/03/2012	ND	400	100	400	4.08	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 4 6' BGS (H202374-10)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/03/2012	ND	400	100	400	4.08	

Sample ID: S - 4 8' BGS (H202374-11)

Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/03/2012	NÐ	400	. 100	400	4.08	

Sample ID: S - 4 10' BGS (H202374-12)

Chloride, SM4500Cl-B mg/kg		/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/03/2012	ND	400	100	400	4.08	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 5 0' (H202374-13)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	0.102	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	
Surrogate: 4-Bromofluorobenzene (PIL	103	% 89.4-12	6			-			
Chloride, SM4500CI-B	mg,	kg	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	10/03/2012	ND	400	100	400	4.08	
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	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	451	10.0	10/01/2012	ND	204	102	200	0.127	
Surrogate: 1-Chlorooctane	101	65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	63.6-15	4						

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		•

Sample ID: S - 5 2' BGS (H202374-14)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	
Surrogate: 4-Bromofluorobenzene (PIL	103	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/03/2012	ND	400	100	400	4.08	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2012	ND	202	101	200	0.481	

Surrogate: 1-Chlorooctane	93.5 %	65.2-140
Surrogate: 1-Chlorooctadecane	96.4 %	63.6-154

<10.0

10.0

Sample ID: S - 5 4' BGS (H202374-15)

Chloride, SM4500Cl-B	SM4500Cl-B mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/03/2012	ND	400	100	400	4.08	

10/01/2012

ND

204

102

200

0.127

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DRO >C10-C28

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 5 6' BGS (H202374-16)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/03/2012	ND	400	100	400	4.08	

Sample ID: S - 5 8' BGS (H202374-17)

Chloride, SM4500Cl-B	oride, SM4500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/03/2012	ND	400	100	400	4.08	

Sample ID: S - 5 10' BGS (H202374-18)

Chloride, SM4500Cl-B	mg _.	/kg 、	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/03/2012	ND	400	100	400	4.08	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 6 (H202374-19)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	
Surrogate: 4-Bromofluorobenzene (PIL	104 \$	% 89.4-12	26						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0 16.0		10/03/2012 ND		400	100	400	4.08	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	<10.0	10.0	10/01/2012	ND	204	102	200	0.127	
Surrogate: 1-Chlorooctane	89.4	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane		% 63.6-15	54						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	[.] 09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 7 (H202374-20)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	
Surrogate: 4-Bromofluorobenzene (PIL	102 9	6 89.4-12	6						
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	10/03/2012	ND	400	100	400	4.08	
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	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	<10.0	10.0	10/01/2012	ND	204	102	200	0.127	
Surrogate: 1-Chlorooctane	95.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	te: 1-Chlorooctadecane 97.9 %		4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

•	Received:	09/28/2012	Sampling Date:	09/27/2012
	Reported:	10/05/2012	Sampling Type:	Soil
	Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
	Project Number:	701484.003.01	Sample Received By:	Jodi Henson
	Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 8 (H202374-21)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	
Surrogate: 4-Bromofluorobenzene (PIE	PIE 103 % 89.4		6						
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	10/03/2012	ND	400	100	400	4.08	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2012	ND	202	101	200	0.660	
DRO >C10-C28	<10.0	10.0	10/02/2012	ND	206	103	200	0.619	
Surrogate: 1-Chlorooctane	96.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane		63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 9 (H202374-22)

BTEX 8021B	mg/	'kg	Analyze	d By: AP				<u></u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	
Surrogate: 4-Bromofluorobenzene (PIC	enzene (PIC 104 %		6						
Chloride, SM4500CI-B	mg/	kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	10/03/2012 ND		400	100	400	4.08	
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	10/02/2012	ND	202	101	200	0.660	
DRO >C10-C28	<10.0	10.0	10/02/2012	ND	206	103	200	0.619	
Surrogate: 1-Chlorooctane	93.8		0						-
Surrogate: 1-Chlorooctadecane	96.3	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 10 (H202374-23)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150 0.150		10/03/2012	ND	6.06	101	6.00	9.48	
Surrogate: 4-Bromofluorobenzene (PIL	104 2	% 89.4-12	6						
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	10/03/2012	ND	400	100	400	4.08	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2012	ND	202	101	200	0.660	
DRO >C10-C28	<10.0	10.0	10/02/2012	ND	206	103	200	0.619	
Surrogate: 1-Chlorooctane	102 \$	65.2-14	0						
Surrogate: 1-Chlorooctadecane	ne 108 %		4						

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Celey D. Keene, Lab Director/Quality Manager



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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 SM4500CI-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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, (575) 393-2326 FA	•																	1 -	• 3
Company Name	Talon / LPE	*****				BILL TO				ANALYSIS REQUEST										
Project Manage	" mike stubblet	eld				P.	O. #:													
Address:	408 WET TERAL					Co	Company: Talas/LPE													
City:	Artesia	State: MM	NM Zip: 88 210				tn:													
Phone #:	175-441-7254	Fax #:				Ac	ldress:				ľ	- 1		1	1					
Project #: 🤈	01484.003,01		J.	dayle	a1,40	Ci	ty:												Í	í
	Cedar Lake SWD				· ·	St	ate:	Zip:			-									
	n: ser. 29- Tig					Ph	ione #:													
Sampler Name:	ries Shellet					Fa	x #:													
FOR LAB USE ONLY	1				MATRIX		PRESERV.	SAMPL	ING		~	_								
Lab I.D. <u>H2D2374</u>	Sample	i.D.	(G)RAB OR (C)OMP.	# CONTAINERS	WASTEWATER SolL	SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME	Boism TPH	8021 B BTEX	Toral chlorider								
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	5.3 10 655 -		<u>.</u>						10:4•A		7			\						
	<u>S.4</u> 0		۵.			. !		9/27/12	11 : 10 A	1					-			• • • • • •		·
رت آ ^ر	5.4 2 bgs		5						11: 70 A					··						
11	5.46'60		5	-	1	<u> </u>	1	9/27/12	11:25 A	· · ·			••••		•• •••				~	
analyses. All claims includ service. In no event shall (nd Damages. Cardinal's l'ability and ing those for negligence and any eth Cardmal be liable for incidental or co- ing put of ar related to the performan	er cause whatsoever shall be r requestal damages, including	leemed without acdinal.	waived up Instation	nless made in writing , business interruate s of whether such of	y and reci ons, loss	sived by Cardinal of use, or loss of p	to the amount p within 30 days af rofits incurred by	ald by the client fo Iter completion of t y client, its subsidi	lhe applicab aries. isc.	le			dd'l Bbc						

Relinquished By:	Date: Received By: 9/28/20/2	Phone Result:	□ No Add'I Ph □ No Add'I Fa		
miselstuffelield	Times 7 30	REMARKS:		and a second of	
Relinquished By:	Date: , Received By: /)	1			
	Time: And Allan				
Delivered By: (Circle One)	Sample Condition CHECKED BY:				
Sampler - UPS - Bus - Other:	$ \begin{array}{c c} \mathcal{U} & Cool & Intact \\ \mathcal{U} & D & Yes & D \\ \mathcal{U} & D & No & No \\ \mathcal{U} & No & No \\ \end{array} $				
† Cardinal cannot accept ver	bal changes. Please fax written changes to (575) 393-2326				Page

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 8 (575) 393-2326 FAX (575) 393-24																	ī	<u>-</u> 3
Company Name	Talon/LPE			, , , , , , , , , , , , , , , , , , ,		BI	LL TO		-			A	VALYS	S RE	QUE	ST	· · · · · · · · · · · · · · · · · · ·		
Project Manage	T: Mike Stubblefield		•		P.(D. #:			Ι					T			T		
	408 West Toxal Rus				Co	mpany: 7	Felon / CA	E											
City:	Artoria State: NM	Zi	p: 8	8710	At	tn:													
Phone #:	575-441-7254 Fax #:				Ad	Idress:		_											
Project#:	201484.003,01 Project Own	ner: J	uda	h oil, 110	Cit	ty:											.		
	Cedar Loke SWD valoading			•	St	ate:	Zip:												
Project Locatio	n: sec. 29 - Tins - R31E				Ph	ione #:													
Sampler Name:	nies (studefull				Fa	x #:											1		
FOR LAB USE ONLY				MATRIX		PRESERV	SAMPI	ING									i l		
Lab I.D. H202374	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER:	ACID/BASE: ICE / COOL OTHER :	DATE	TIME	BOIST TPH	9	Total alloridar								
13	S-4 8' 655	٢		<u> </u>			9/27/12	11:30A											
	S. HIO'Lor	_ 4				_ /		11:35A	_										
1 1	15.50	C	1		· ·		9/22/12	11:50A						_					
14	5.5 2' 510	C			1.			11:55R			<u> </u>								
15	5.5 4' 515	4						12:00 1	1										
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	5.5 8 395	<u> </u>						17:10 0		·	<u>/ .</u>								
	5.5 10' 5pt	G				4		12:15P	l					.					
	5.6	<u> </u>	-		<u></u>		9/27/12						.						
\mathcal{W}	5.7	4				1 /	19/27/12	1:200	\sim					1	1		i 1		

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alfiliales or successors arising out of or related to the performance of services hereunder by Cardinal, regarcless of whother such claim is pased upon any of the above stated reasons or otherwise. Received By: Relinguished By: Date: 9/28/2012 Phone Result: 🗆 Yes 🗆 No Add'l Phone #: Fax Result: 🗆 Yes 🗆 No Add'l Fax #: Time REMARKS: Mile Stullle Relinguished By >> Received By: Delivered By: (Circle One) CHECKED BY: Sample Condition Cool /Intact/ (Initials) 10 Yes Yes Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to (575)39842326 16

Page 18 of 19



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, He (575) 393-2326 FAX																		7.	- 3
Company Name	Tol 1.05	(373) 333-247		···· · ·		19.1.Y	BI	LL TO						ANAL	VSIS	RE	OUES	ST.	 <u> </u>	<u></u>
Company Name: Talon 12PE Project Manager: Pike Stubblefield						- Personal Personal Personal Personal P	P.O. #:							Ī		<u> </u>		<u> </u>		
Address: 408 WAT TORAC AUC.						c	Company: Talos / LPE			1									1	
City:	y: Arlesia State: NM Zip: 88710						Attn:													
Phone #: \$7\$-441-7254 Fax #:					A	Address:														
Project #: 101494.009.01 Project Owner: Judal Oil, LLC					Ci	City:						1								
Project Name:	Cedar Lake SWD .	aloading sta	Tion			St	ate:	Zip:												
Project Locatio	n: Sec. 29-T195-R					Pł	hone #:													
Sampler Name:	nies (stallful	1				Fa	ax #:	<u> </u>					[
FOR LAB USE ONLY	1		<u>.</u>		MATRIX		PRESERV	SAMPL	ING			_								
Lab I.D. <u>H2071374</u> 21 22 73	Sample I. <u>5. 8</u> <u>5- 9</u> <u>5- 10</u>	D.	COMP	GROUNDWATER		SLUDGE SLUDGE	ACID/BASE: Note / cool.	9/23/12	TIME 1:25P 1:30 P 7:45P	HUL BOIZU TPH	802) 8 2121	Total chearde				· · · · · · · · · · · · · · · · · · ·				
		·····	 -				·····	·-	••••••••••••				· ·						 [·· ···	
analyses. All claims includ service. In no overal shaft allifates or successora aris Relinquished B Relinquished B Relinquished B Delivered By	- -	ause whatsoever shail be µuentāl damages, including	dicerned w g without li Cardinal. re Reco	nived unles mitation, Ex- eardless = eived st eived st eived st S S	ss made in writing usiness interrupie Webers such d By: By: Cool State Cool Intac	and reconstructions loss aim is based aim is	scived by Cardinal of use, or loss of p seed upon any of it seed u	within 30 days al rofits incurred by	ter completion of t client, its subsidi	llie applicai aries. ise. Isult: It:	inie Yes Yes	s [] s []	No No	Add'l F		#: 	J	 	 	
+ Cardinal						NO	<u> </u>		J			-							 	ارد است. استواری

Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2826 #26 Page 19 of 19