

AMARILLO 921 North Bivins Amarillo, Texas 79107 Phone 806.467.0607 Fax 806.467.0622

AUSTIN 911 West Anderson Lane Suite 202 Austin, Texas 78757 Phone 512.989.3428 Fax 512.989.3487

MIDLAND 2901 State Highway 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

SAN ANTONIO 11 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

HOBBS 318 East Taylor Street Hobbs, New Mexico 88241 Phone 505.393.4261 Fax 505.393.4658

ARTESIA 408 W. Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 505.746.8905

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION EMERGENCY RESPONSE

> Toll Free: 866.742.0742 www.talonlpe.com

NMOCD District 2 1301 West Grand Avenue Artesia, NM 88210

January 13, 2011

Attention:

n: Mr. Mike Bratcher

Subject:

:: Soil Assessment Results and Remediation Work Plan Linn Energy, LLC Turner B No.104 Location

Dear Mr. Bratcher,

Linn Energy, LLC has retained Talon/LPE (Talon) to perform soil assessment and remediation services for the release at the referenced Turner B No. 104 Location. Results of the completed soil assessment and our proposed remediation work plan are presented herein.

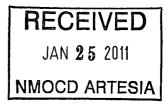
Background Information

The Turner B No. 104 location is located approximately thirty-one (31) miles East of Artesia, New Mexico. The legal location for the site is Section 20, Township 17 South and Range 31 East in Eddy County, New Mexico. The site latitude is North 32.82772 and West -103.89605.

The site lies on undulating plains and low hills consisting of wind-worked sandy deposits. Drainage courses in this area are normally dry. The local surface and shallow geology includes silty soils underlain by sandstone and clay layers, providing an impermeable barrier to the migration of fluids in the area of the release. The New Mexico State Engineer Database indicates the nearest groundwater data to be in S12-T16S-R31 East. The groundwater in Section 12 is reported to be at an average depth of 288-feet below ground surface (bgs).

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

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



Incident Description

On September 17, 2010 the flow line valve was accidentally closed causing the well pressure to increase and to blow out the stuffing box. The well was subsequently shut in and the packing was repaired. Approximately eight (8) barrels of oil and water were released onto the location and the two-track road located south of the location. A vacuum truck and backhoe were brought to the site. Seven (7) barrels of oil and produced water were recovered. The visually impacted soil on the location was excavated and stockpiled on liner material.

The impacted area on location is estimated to be eight-feet (8') wide by ninety-feet (90') long. The affected area on the two-track road is one to two feet (1-2') wide by one hundred fifty feet (150') in length.

Sampling Activities and Laboratory Analytical Results

On September 20, 2010 Talon personnel mobilized to the site and began assessment and sampling activities for the construction of a work plan. Grab soil samples were collected from three locations at the surface of the impacted areas. Soil sample one (S-1) was collected from the impacted area on location; soil samples two and three (S-2 and S-3) were collected from the off location flow path. All soil samples were collected using clean nitrile gloves, placed into laboratory provided glassware, iced and delivered to Cardinal Laboratories of Hobbs, New Mexico. The samples were analyzed pursuant to EPA Test Methods 8021B for BTEX; test method 8015M for TPH; and SM4500Cl-B for Chlorides. The complete laboratory report is attached in Appendix II.

On September 28, 2010 Talon personnel returned to the site with a backhoe to obtain samples for vertical delineation purposes. Test pits were excavated at the locations previously sampled. Samples were obtained at depths ranging from 1-foot to nine feet (1'-9') deep. All soil samples were collected using clean nitrile gloves, placed into laboratory provided glassware, iced and delivered to Cardinal Laboratories of Hobbs, New Mexico. The samples were analyzed pursuant to EPA Test Methods 8021B for BTEX; test method 8015M for TPH; and SM4500Cl-B for Chlorides. The complete laboratory report is appended hereto and summarized on the following table.

Sample Location, depth (feet)	<u>BTEX</u>	<u>TPH</u>	Chlorides (mg/kg)
S-1, 0' bgs	78.37	20,196	13,200 mg/kg
S-2, 1'	<50	ND	-
S-1, 3'	ND*	ND	2,720
S-1, 6'	_ **	-	3,040

Sample Location (feet)	<u>BTEX</u>	<u>TPH</u>	Chlorides (mg/kg)
S-2, 0' bgs	93.98	19,250	48 mg/kg
S-2, 1'	<50	27.1	ND
S-2, 3'	ND	ND	48
S-2, 6'	ND	ND	ND
S-2, 9'	-	-	32
S-3, 0'	ND	3,020	96
S-3, 3'	-	-	48

*ND: Not Detected within laboratory method detection limits.

** Analyte not tested.

Summary and Conclusions

- Groundwater depth in the project vicinity is greater than 200-feet below land surface per the New Mexico State Engineer Database.
- Analytical results indicate that BTEX and TPH exceed the Recommended Remedial Action Level (RRAL) only at land surface within the impacted area. BTEX and TPH do not exceed their RRAL's at depths greater than 1-foot deep at all three locations sampled.
- Analytical results indicate that Chlorides above background levels were detected at depth only at sample S-1, which is on the well location. This may indicate possible historic chloride impacts on location.

Proposed Remedial Actions

- Linn Energy requests permission to treat the impacted areas with dairy farm provided manure fertilizer, and then aerate the treated soil utilizing tiller-blade techniques.
- Confirmation soil samples will be collected and analyzed from the treated area to determine the effectiveness of the nitrogen application in forty-five to sixty (45-60) days.

- Sampling and treatment will continue as previously described until analytical results indicate that BTEX and TPH levels have been corrected to their acceptable RRAL's.
- A final closure report for this release will be provided to the NMOCD that contains details of all remedial actions taken, laboratory reports and Form C-141.

If we can be of further assistance or provide additional information, please do not hesitate to contact us at 575.746.8768.

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Respectfully submitted,

TALON/LPE

mart Studlefield

Mike Stubblefield Project Manager

lodi

David J. Adkins District Manager

APPENDIX I

STATE GROUNDWATER DATA

FORM C-141

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

(quarters are 1=NW 2=NE 3=SW 4=SE)													
" See 2000 Providentia de Sandification de la contratación desarro de companya de la companya de la companya de	Constantian Service	(quarte	rs a	res	sma	llest	to larg	est)	(NAD83 UTN	/in meters)	De Ault of Ballio	(In feet)	. Maria
Sub			Q	Q	Q					, C	epth D	epth Wat	er
POD Number basi	n Use (County	64	16	4	Sec	Tws	Rng	X	Υ.	Well W	/aterColu	mn
L 03435 APPRO	PRO	LE		1	1	05	16S	31E	602954	3646955*			
L 04671	PRO	LE	1	1	2	12	16S	31E	610114	3645538*	340	288	52
L 04671 APPRO	PRO	LE	1	1	2	12	16S	31E	610114	3645538*	340	288	52
L 10203	STK	LE	4	4	2	14	16S	31E	609130	3643310*	310		
L 10206	STK	LE		2	2	23	16S	31E	609045	3642204*	280		
									Avera	age Depth to	Water:	288 feet	
										Minimum	Depth:	288 feet	
										Maximum	Depth:	288 feet	

Record Count: 5

PLSS Search:

Township: 16S

Range: 31E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

OPERATOR ☑ Initial Report ☐ Final Report Name of Company Line Operating Contact Dennis Poter Address 13694 Lovington Hwy, Loco Hills, NM, 88255 Telephone No. 505-206-7673 Facility Name Turne B #104 Facility Type Producing well Striface Owner B.L.M. Mineral Owner Fed. Gov't. API # 3001526696 Uoit Letter Socian Township Range Fed. Form Fed. Gov't. API # 3001526696 Uoit Letter Socian Township Range Fed. Form Fed. Gov't. API # 3001526696 Uoit Letter Socian Township Range Fed. Form Fed. Gov't. API # 3001526696 Uoit Letter 20 TrS Bale Fed. Gov't. LOCATION OF RELEASE Source of Release PGDUCING WELL Volume of Release & BBLS Volume of Release D Solan 917/10 Solan Ype of Release PGDUCING WELL 917/10 Solam 917/10 Solam By Whort? Denis Poter Des and Hour of Coccurree Date and Hour of Cocurree </th <th>alan ay ay in the second second second</th> <th colspan="9">Release Notification and Corrective Action</th>	alan ay ay in the second second second	Release Notification and Corrective Action													
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affected area was the location and a small amount had run off the pad. The fluid was picked up and the contaminated soil was also picked up and placed onto some plastic. Talon LPE was called to come out to get soil samples and they were sent to cardinal labs. Further soil remediation will be determined after tests results are received. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Printed Name: Dennis J. Potter Title: Production Specialist / Asst. Production Foreman Approval Date: Expiration Date:	The flow line released. I im	valve some mediately o	how was shut alled a vacuu	during the	e night ca	using the fluids and	e well to d a back	o pressure up whoe to pick u	and blow out the p contaminated s	stuffing oil. Imn	, box. Appr nediately flo	ox. 8 bbls. to owing this I	otal flu notifie	iid was ed our offi	ice
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. <i>OIL CONSERVATION DIVISION Signature: Printed Name: Dennis J. Potter</i> Title: Production Specialist / Asst. Production Foreman	affected area v onto some pla	vas the loca stic. Talon I	tion and a smaller	all amoun	t had run	off the p t soil san	ad. The nples ar	fluid was pic nd they were s	ked up and the cosent to cardinal la	ontamin bs. Furt	ated soil water soil ren	as also picke nediation wi	d up a ll be d	nd placed etermined	i 1
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Printed Name: Dennis J. Potter Title: Production Specialist / Asst. Production Foreman Approval Date: Expiration Date:		3						noround her F	District Sunamica						
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	E-mail Address	: dpotter@	dlinnenergy.co	om			c	onditions of A	Approval:			Attached			

APPENDIX II

LABORATORY ANALYTICAL REPORT

CARDINAL Laboratories

September 27, 2010

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TURNER B #104

Enclosed are the results of analyses for samples received by the laboratory on 09/20/10 15:28.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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:	09/20/2010	Sampling Date:	09/20/2010
Reported:	09/27/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

Sample ID: S - 1 (H020889-01)

BTEX 8021B	mg	/kg	Analyze	d By: cms			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.325	0.250	09/20/2010	ND	1.02	102	1.00	3.57	
Toluene*	6.55	0.250	09/20/2010	ND	1.12	112	1.00	4.42	
Ethylbenzene*	20.4	0.250	09/20/2010	ND	1.13	113	1.00	2.83	
Total Xylenes*	51.1	0.750	09/20/2010	ND	3.36	112	3.00	3.77	
Surrogate: 4-Bromofluorobenzene (PIL	91.1	% 80-120)	88				a a construction of the second se	in a fair an ann ann an tarainn an an an ann an an an an an an an an
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	09/21/2010	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: AB					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	696	100	09/25/2010	ND	168	83.9	200	6.68	
DRO >C10-C28	19500	100	09/25/2010	ND	191	95.6	200	8.79	
Surrogate: 1-Chlorooctane	14.8	% 70-130)						
Surrogate: 1-Chlorooctadecane	15.7	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the abuve stated resources or otherwise. Results relate only to the samples therefore that no the performance of Lardinal Laboratories.

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:	09/20/2010	Sampling Date:	09/20/2010
Reported:	09/27/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

Sample ID: S - 2 (H020889-02)

BTEX 8021B	mg,	/kg	Analyze	d By: cms			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.250	0.250	09/20/2010	ND	1.02	102	1.00	3.57	
Toluene*	4.28	0.250	09/20/2010	ND	1.12	112	1.00	4.42	
Ethylbenzene*	25.3	0.250	09/20/2010	ND	1.13	113	1.00	2.83	
Total Xylenes*	64.4	0.750	09/20/2010	ND	3.36	112	3.00	3.77	
Surrogate: 4-Bromofluorobenzene (PIL	110	% 80-120)						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/21/2010	ND	448	112	400	3.64	
TPH 8015M .	mg,	/kg	Analyze	d By: AB					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1450	100	09/25/2010	ND	168	83.9	200	6.68	
DRO >C10-C28	17800	100	09/25/2010	ND	191	95.6	200	8.79	
Surrogate: 1-Chlorooctane	21.1	% 70-130							
Surrogate: 1-Chlorooctadecane	14.4	% 70-130							

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*=Accredited Analyte

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alex Kune

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 6



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

Received:	09/20/2010	Sampling Date:	09/20/2010
Reported:	09/27/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

Sample ID: S - 3 (H020889-03)

BTEX 8021B	mg/	kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	09/20/2010	ND	1.02	102	1.00	3.57	
Toluene*	<0.025	0.025	09/20/2010	ND	1.12	112	1.00	4.42	
Ethylbenzene*	<0.025	0.025	09/20/2010	ND	1.13	113	1.00	2.83	
Total Xylenes*	<0.075	0.075	09/20/2010	ND	3.36	112	3.00	3.77	
Surrogate: 4-Bromofluorobenzene (PIL	97.8	% 80-120)						Alexandro Anno anno anna anna anna anna a
Chloride, SM4500CI-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	09/21/2010	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: AB		•			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/25/2010	ND	168	83.9	200	6.68	
DRO >C10-C28	3020	10.0	09/25/2010	ND	191	95.6	200	8.79	
Surrogate: 1-Chlorooctane	88.3 9	% 70-130					Victoria konstantenten da 11 - 21 kako kaka katakatan daten		
Surrogate: 1-Chlorooctadecane	89.8 9	% 70-130	I						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 6



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 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

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6



October 05, 2010

MIKE STUBBLEFIELD

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TURNER B #104

Enclosed are the results of analyses for samples received by the laboratory on 09/29/10 11:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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:	09/29/2010	Sampling Date:	09/28/2010
Reported:	10/05/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	700813.002.01	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

Sample ID: 001 5 - 1 1' BGS (H020943-01)

BTEX 8021B	mg,	/kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	09/30/2010	ND	1.74	87.2	2.00		
Toluene*	<0.025	0.025	09/30/2010	ND	2.00	99.8	2.00		
Ethylbenzene*	<0.025	0.025	09/30/2010	ND	2.05	102	2.00		
Total Xylenes*	0.098	0.075	09/30/2010	ND	6.20	103	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	104	% 80-120)			1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999			
TPH 8015M	mg/	/kg	Anaiyze	d By: AB			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49	
DRO >C10-C28	<10.0	10.0	10/01/2010	ND	199	99.6	200	15.1	
Surrogate: 1-Chlorooctane	80.2	% 70-130)						
Surrogate: 1-Chlorooctadecane	83.1	% 70-130)					2	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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, whither the transformation, business interruptions, toss of use, or loss of profits incrured by client, its sublatiants, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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 Sure-

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 8



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

Received:	09/29/2010	Sampling Date:	09/28/2010
Reported:	10/05/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	700813.002.01	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

Sample ID: 002 5 - 1 3' BGS (H020943-02)

BTEX 8021B	mg/	kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.025	0.025	09/30/2010	ND	1.74	87.2	2.00		
Toluene*	<0.025	0.025	09/30/2010	ND	2.00	99.8	2.00		
Ethylbenzene*	<0.025	0.025	09/30/2010	ND	2.05	102	2.00		
Total Xylenes*	<0.075	0.075	09/30/2010	ND	6.20	103	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 80-120							
Chloride, SM4500CI-8	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	2720	16.0	09/30/2010	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49	
DRO >C10-C28	<10.0	10.0	10/01/2010	ND	199	99.6	200	15.1	
Surrogate: I-Chlorooctane	87.0	% 70-130							4 1 Martin and 1977 1977 1988 1994 1996
Surrogate: 1-Chlorooctadecane	91.0	% 70-130							

Sample ID: 003 5 - 1 6' BGS (H020943-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	09/30/2010	ND	400	100	400	7.69	

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Celega Sune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/29/2010	Sampling Date:	09/28/2010
Reported:	10/05/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	700813.002.01	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

Sample ID: 004 5 - 2 1' BGS (H020943-04)

BTEX 8021B	mg/	'kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	09/30/2010	ND	1.74	87.2	2.00		
Toluene*	<0.025	0.025	09/30/2010	ND	2.00	99.8	2.00		
Ethylbenzene*	0.172	0.025	09/30/2010	ND	2.05	102	2.00		
Total Xylenes*	0.395	0.075	09/30/2010	ND	6.20	103	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 80-120						<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
TPH 8015M	mg/	kg	Analyze	d By: AB			······		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49	
DRO >C10-C28	27.1	10.0	10/01/2010	ND	199	99.6	200	15.1	
Surrogate: 1-Chlorooctane	86.1	% 70-130	,						
Surrogate: 1-Chlorooctadecane	86.7	% 70-130							

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Celey S. 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:	09/29/2010	Sampling Date:	09/28/2010
Reported:	10/05/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	700813.002.01	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

Sample ID: 005 5 - 2 3' BGS (H020943-05)

BTEX 8021B	mg/	kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	09/30/2010	ND	1.74	87.2	2.00		
Toluene*	<0.025	0.025	09/30/2010	ND	2.00	99.8	2.00		
Ethylbenzene*	<0.025	0.025	09/30/2010	ND	2.05	102	2.00		
Total Xylenes*	<0.075	0.075	09/30/2010	ND	6.20	103	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 80-120			*****	d - 184	an man ann an an an Ann an	-	
TPH 8015M	mg/	kg	Analyzed By: AB		· · · · · ·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49	
DRO >C10-C28	<10.0	10.0	10/01/2010	ND .	199	99.6	200	15.1	
Surrogate: 1-Chlorooctane	91.4 9	% 70-130							
Surrogate: 1-Chlorooctadecane	93 .7 9	% 70-130							

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Celey Kene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/29/2010	Sampling Date:	09/28/2010
Reported:	10/05/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	700813.002.01	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

Sample ID: 006 5 - 2 6' BGS (H020943-06)

BTEX 8021B	mg,	'kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	09/30/2010	ND	1.74	87.2	2.00		
Toluene*	<0.025	0.025	09/30/2010	ND	2.00	99.8	2.00		
Ethylbenzene*	<0.025	0.025	09/30/2010	ND	2.05	102	2.00		
Total Xylenes*	<0.075	0.075	09/30/2010	ND	6.20	103	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 80-120	1						
TPH 8015M	mg/	kg	Analyzed By: AB				, , · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49	
DRO >C10-C28	<10.0	10.0	10/01/2010	ND	199	99.6	200	15.1	
Surrogate: 1-Chlorooctane	80.7	% 70-130	·····			ka a din ang la ara ang na ng	1999		
Surrogate: 1-Chlorooctadecane	82.1	% 70-130							

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Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
•	Chloride by 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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PLEXEE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 profils 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 unover stated reasons or otherwise. Results relate only to the samples therinfied above. This reproduced except in full with writen approval of Cardinal Laborations.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 8

RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476

Company Name:	ompany Name: Talon /(PE						ANALYSIS REQUEST																		
Project Manager	: Mike Stubble field			<u>ب</u> .				_	P.O. #:					Τ										Ţ	
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Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	solt.	OIL	DTHER .	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH BOIS	BTEK-8020	Total Chouder									
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PLEASE NOTE: Liability and Damages, Cardinar's liability and clemes enclusive remedy for any calm crising whether based in contract or fort, shall be limited to the encluring and by the client for the analyses. All cleims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the epokable

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† Cardinal cannot accept verbal changes, Please fax written changes to 505-393-2476 #26

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October 12, 2010

MIKE STUBBLEFIELD TALON LPE 408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TURNER B #104

Enclosed are the results of analyses for samples received by the laboratory on 09/29/10 11:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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:	09/29/2010	Sampling Date:	09/28/2010
Reported:	10/12/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	700813.002.01	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

Sample ID: 004 5 - 2 1' BGS (H020943-04)

Chloride, SM4500Cl-B	00Cl-B mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/12/2010	ND	432	108	400	3.77	

Sample ID: 005 5 - 2 3' BGS (H020943-05)

Chloride, SM4500CI-B	loride, SM4500Cl-B mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/12/2010	ND	432	108	400	3.77	

Sample ID: 006 5 - 2 6' BGS (H020943-06)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/12/2010	ND	432	108	400	3.77	

Sample ID: 007 5 - 2 9' BGS (H020943-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chtoride	32.0	16.0	10/12/2010	ND	432	108	400	3.77	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

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

 Insufficient time to reach temperature.
- Chloride by 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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*=Accredited Analyte

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Celey & Kune

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Contraction of the local sector of the local s	(505) 393-2326 FAX (505) 393-24/1			- Anna Aniar A				Lov	6416	100			101 100 001 01		10. maaaa 1000	The sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-							مەربەت بەلەت		
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Sampler - UPS - Bus - Other:	Cool Intact (1) Cool Intact (1) Pros Pres	the Ch.

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #26

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October 18, 2010

MIKE STUBBLEFIELD TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TURNER B #104

Enclosed are the results of analyses for samples received by the laboratory on 10/15/10 15:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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:	10/15/2010	Sampling Date:	09/28/2010
Reported:	10/18/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	700813.002.01	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

Sample ID: 009 5 - 3 3' BGS (H021078-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2010	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved 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 imitation, business interruptions, loss of use, or loss of profits incurred by client fast accurate shall be increased to the performance of the services hereunder by Cardinal, regardless of whether such claim is based unove statist creasons or otherwise. Results retaite only to the samples identified above. This reproduced except in full with writem approval of clariforial Laboratories.

Celuz D.Kune

Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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.Kune

Celey D. Keene, Lab Director/Quality Manager

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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Company Name: TAL ON /CPE							BILL TO							ANALYSIS REQUEST											
Project Manager: mike stallberieta							Р.(0. #	;									[
Address: 403 W. Toxing Ace.							Company: Linn Operating																		
City: State: N/2	Zip	: ;	162	10				tn:			bert Vice														
Phone #: Fax #: 5-</td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ad</td> <td>ldre</td> <td></td> <td></td> <td>2 13500</td> <td></td>							Ad	ldre			2 13500														
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Project Location: Sec. 17 - 120 - 710							Ph	one	• #:								ļ			ľ					
Sampler Name: Mile Statisticul								x #:	-		····														
FOR LAB USE ONLY		Γ		М	ATR	IX	the second se	PR	10000	RV.	SAMPLI	NG													
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Total Chloridry	1										1	
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affiliates or successors erising out of or related to the performance of services herounder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinguished By:	Date:	Received By:	Phone Result:	C Yes	D No	Add'i Phone #:
	10/15/16	former of the	Fax Result:	D Yes	C No	Add'I Fax #:
mile Stubel field	Time	TCK 1	REMARKS:			
Relinquished By:	Pater SII	Received By:				
		PALAN ALICE				
	Time:	adde Nenson				
Delivered By: (Circle One)		4 Sample Condition CHECKED BY:]			
		Cool Intact (Initials)				
Sampler - UPS - Bus - Other:		Yes Yes Ar				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476