



HOBBS OCD

APR 09 2012

RECEIVED

April 5, 2011

Mr. Geoffrey Leking
NMOCD District 1
1625 N. French Dr.
Hobbs, NM 88240

Subject: AMENDED
Soil Assessment and Remediation Work Plan
Centurion Pipeline, L.P.
Brahamey Gathering System 8" Line
LMEP #308-11-027

Dear Mr. Leking,

Centurion Pipeline, L.P. (Centurion) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services for the referenced Brahamey Gathering System 8-inch Line release. Talon's site assessment, soil sampling results and proposed work plan to perform remediation activities consist of the following:

Incident Date

September 25, 2011

Background Information

The Brahamey Gathering System 8-inch Line is located approximately four (4) miles southeast of Bronco, New Mexico. The legal location for the site is Section 4, Township 13 South and Range 38 East in Lea County, New Mexico. More Specifically the latitude and longitude for the release are 33 12.847' North and 103 06.603' 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 Amarillo loamy fine sand, with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of calcareous-loamy alluvium and calcareous-loamy eolian sands which includes silty soils underlain by sedimentary rock and hard caliches. Drainage courses in this area are normally dry. A groundwater monitoring well is located approximately 500' to the south away. Groundwater was measured at 95' below ground surface in this well.

The ranking for this site is 10 based on the as following:

Depth to ground water	50-100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

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Toll Free: 866.742.0742
www.talonlpe.com

APR 10 2012

Incident Description

On September 25, 2011, internal corrosion of the 8" steel pipeline caused a leak in the Brahaney Gathering System resulting in a release of 4-5 barrels of sweet crude oil. No oil was recovered. The pipeline was immediately shut-in and the pipeline was replaced on September 26, 2011. The impacted soil was excavated and transported to Gandy Landfill on September 28, 2011. The impacted area measured approximately 20-feet long by 8-feet wide over the pipeline right of way.

Sampling Activities

On September 26, 2011 Talon mobilized personnel to begin soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a backhoe. The soil samples labeled S-1 were collected from the excavated stockpile and at 6-feet deep below the exposed pipeline. The soil samples S-2 and S-3 were collected from the stockpile of excavated soil, where indicated on the attached site plan.

Talon subsequently mobilized a drill rig to the site for vertical delineation of the release. On October 14, 2011 boring B-1 was drilled where shown on the attached site plan. Undisturbed, split spoon samples were collected utilizing a hollow stem auger drilling techniques. The boring was terminated when refusal was encountered at 45-feet deep.

On March 9, 2012 Talon personnel returned to the site with an air rotary drill rig to obtain soil samples at greater depths. The boring B-1 was re-drilled and grab soil samples were collected from 5-feet deep to a depth of 95-feet deep below land surface for chloride analysis, pursuant to the requirements of NMOCD.

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 TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B and Analysis of chlorides was done via Method SM4500CL-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

October 1, 2011

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH (mg/kg)</u>
S-1, Stockpile	0'	285.7	14,900
	6'	411.5	24,000
S-2	0'	1.067	73
S-3	0'	0.185	58.6

October 18, 2011

<u>Sample, Depth</u>	<u>BTEX</u>	<u>TPH (mg/kg)</u>
B-1 10'	225.56	21,490
12'	211.72	19,740
14'	240.94	20,770
16'	230.27	29,570
20'	326.02	40,400
30'	341.47	28,340
35'	<0.15	138
38'	<0.15	49.1
45'	20.56	4,006

March 14, 2012

<u>Sample, Depth</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH (mg/kg)</u>
B-1 5'	--	<16	--
10'	--	<16	--
15'	--	<16	--
20'	--	<16	--
25'	--	<16	--
30'	--	<16	--
35'	--	<16	--
40'	--	<16	--
45'	--	<16	--
65'	0.48	<16	1364
70'	<0.150	<16	182
75'	<0.150	<16	92
80'	<0.150	16	189
85'	<0.150	16	262
90'	<0.150	16	604
95'	<0.150	16	335

--Analyte Not Tested

Proposed Remedial Actions


- The impacted soil to a depth of 6-feet will be excavated and transported to an NMOCD approved solid waste disposal facility.
- Confirmation samples will be collected from the sidewalls of the excavation and presented to the OCD for permission to complete excavation activities.


- Upon completion of excavation activities, a 20 mil. liner will be placed into the bottom of excavated area. The excavated area will be backfilled back to grade using new material transported from a local borrow pit.
- The backfill material will be contoured to match the surrounding terrain and the area will be seeded with an approved seed mixture for the area.
- A closure report detailing all site activities, analytical data and a final C-141 Form will be provided to the NMOCD.

Should you have any questions or if further information is required, please do not hesitate to contact us at 575.746.8768.

Respectfully submitted,

TALON/LPE


Kimberly M. Wilson
Environment Scientist


David J. Adkins
District Manager

SITE MAP

Dirt Road

Excavated Area for
Pipeline Repairs

S-2

S-1

B-1

Release Location

S-3

(2) Underground
Pipelines



0 5 10



Scale in Feet

Legend

- ◆ - Sample Locations 09/26/2011
- - Drilled Boring Location
- PL --- - Underground Pipeline



Date: 10/27/2011

Scale: 1" = 10'

Drawn By: TJS

Brahaney Gathering System 8" Line
LMEP #308-11-027
Centurion Pipeline
Figure 1 - Site Plan

LABORATORY RESULTS

March 14, 2012

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BRAHANEY GS 8" LINE 11-027

Enclosed are the results of analyses for samples received by the laboratory on 03/12/12 13:41.

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.

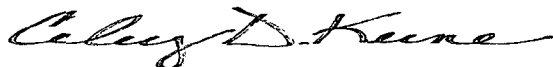
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 5' (H200631-01)

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	03/13/2012	ND	400	100	400	3.92		

Sample ID: B - 1 10' (H200631-02)

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	03/13/2012	ND	400	100	400	3.92		

Sample ID: B - 1 15' (H200631-03)

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	03/13/2012	ND	400	100	400	3.92		

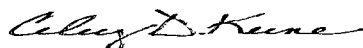
Sample ID: B - 1 20' (H200631-04)

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	03/13/2012	ND	400	100	400	3.92		

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 25' (H200631-05)

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	03/13/2012	ND	400	100	400	3.92	

Sample ID: B - 1 30' (H200631-06)

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	03/13/2012	ND	400	100	400	3.92	

Sample ID: B - 1 35' (H200631-07)

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	03/13/2012	ND	400	100	400	3.92	

Sample ID: B - 1 40' (H200631-08)

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	03/13/2012	ND	400	100	400	3.92	

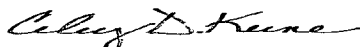
Sample ID: B - 1 45' (H200631-09)

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	03/13/2012	ND	400	100	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/12/2012
Reported: 03/14/2012
Project Name: BRAHANEY GS 8" LINE 11-027
Project Number: 701242.009
Project Location: C-4-13S - 38E

Sampling Date: 03/09/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: B - 1 65' (H200631-10)

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	0.119	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	0.361	0.150	03/13/2012	ND	6.61	110	6.00	3.63	

Surrogate 4-Bromofluorobenzene (PIL) 140 % 64 4-134

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	03/13/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	74.0	10.0	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	1290	10.0	03/13/2012	ND	197	98.5	200	12.2	

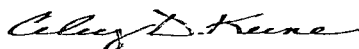
Surrogate 1-Chlorooctane 113 % 55 5-154

Surrogate 1-Chlorooctadecane 102 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 70' (H200631-11)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65		
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85		
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78		
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63		

Surrogate 4-Bromofluorobenzene (PIL) 115 % 64.4-134

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	03/13/2012	ND	400	100	400	3.92		

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	03/13/2012	ND	213	106	200	16.5		
DRO >C10-C28	182	10.0	03/13/2012	ND	197	98.5	200	12.2		

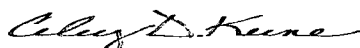
Surrogate: 1-Chlorooctane 98.2 % 55.5-154

Surrogate: 1-Chlorooctadecane 90.7 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/12/2012
Reported: 03/14/2012
Project Name: BRAHANNEY GS 8" LINE 11-027
Project Number: 701242.009
Project Location: C-4-13S - 38E

Sampling Date: 03/09/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: B - 1 75' (H200631-12)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 64 4-134

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	03/13/2012	ND	400	100	400	3.92	

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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	92.0	10.0	03/13/2012	ND	197	98.5	200	12.2	

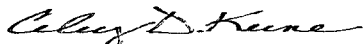
Surrogate: 1-Chlorooctane 96.1 % 55.5-154

Surrogate: 1-Chlorooctadecane 91.5 % 57.6-158

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*=Accredited Analyte

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Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 80' (H200631-13)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	

Surrogate: 4-Bromofluorobenzene (PIL) 113 % 64.4-134

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	03/13/2012	ND	400	100	400	3.92	
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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	189	10.0	03/13/2012	ND	197	98.5	200	12.2	

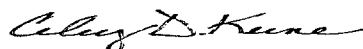
Surrogate: 1-Chlorooctane 90.0 % 55.5-154

Surrogate: 1-Chlorooctadecane 92.8 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Reported: 03/14/2012
Project Name: BRAHANEY GS 8" LINE 11-027
Project Number: 701242.009
Project Location: C-4-13S - 38E

Sampling Date: 03/09/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: B - 1 85' (H200631-14)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	

Surrogate 4-Bromofluorobenzene (PIL) 115 % 64 4-134

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	03/13/2012	ND	400	100	400	3.92		

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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	262	10.0	03/13/2012	ND	197	98.5	200	12.2	

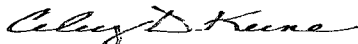
Surrogate 1-Chlorooctane 98 8 % 55 5-154

Surrogate 1-Chlorooctadecane 109 % 57 6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 90' (H200631-15)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65		
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85		
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78		
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63		

Surrogate 4-Bromofluorobenzene (PIL) 113 % 64 4-134

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	03/13/2012	ND	400	100	400	3.92	

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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	604	10.0	03/13/2012	ND	197	98.5	200	12.2	

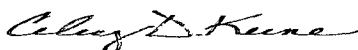
Surrogate 1-Chlorooctane 106 % 55.5-154

Surrogate 1-Chlorooctadecane 111 % 57 6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/12/2012
Reported: 03/14/2012
Project Name: BRAHANEY GS 8" LINE 11-027
Project Number: 701242.009
Project Location: C-4-13S - 38E

Sampling Date: 03/09/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: B - 1 95' (H200631-16)

BTX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	

Surrogate, 4-Bromofluorobenzene (PIL) 114 % 64 4-134

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	03/13/2012	ND	400	100	400	3.92	
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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	335	10.0	03/13/2012	ND	197	98.5	200	12.2	

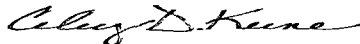
Surrogate, 1-Chlorooctane 91.7 % 55 5-154

Surrogate, 1-Chlorooctadecane 102 % 57 6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

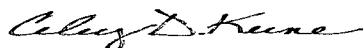
Notes and Definitions

- 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 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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



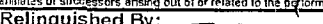
2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE						BILL TO:								ANALYSIS REQUEST													
Project Manager: David Adkins						P.O. #:																					
Address: 408 W Texas						Company: Talon																					
City: Artesia State: NM Zip: 88210						Attn:																					
Phone #: 575-746-8268 Fax #: 575-746-8905						Address:																					
Project #: 701242, 00901 Project Owner: Continental						City:																					
Project Name: Brakemey GS 8" Line 11-027						State: Zip:																					
Project Location: C-4 13S-38E						Phone #:																					
Sampler Name: David Adkins						Fax #:																					
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(GRAB OR COMPO.)	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
H2DD631																											
10	B-1	65'	G					/				/			3/5/12		/	/	/								
11	B-1	70'	G					/				/			3/5/12		/	/	/								
12	B-1	75'	G					/				/			3/5/12		/	/	/								
13	B-1	50'	G					/				/			3/5/12		/	/	/								
14	B-1	85'	G					/				/			3/5/12		/	/	/								
15	B-1	90'	G					/				/			3/5/12		/	/	/								
16	B-1	95'	G					/				/			3/5/12		/	/	/								

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Relinquished By: 		Date: 3/12/2012 Time: 10:10 AM		Received By: Mark Stuebel		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: Mark Stuebel		Date: 3/12/2012 Time: 1:41 PM		Received By: Jodi Benson		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) JS		REMARKS:	

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

025

-393-2476
#26



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

October 18, 2011

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BRAHANEY GS 8" LINE 11-027

Enclosed are the results of analyses for samples received by the laboratory on 10/14/11 11:40.

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 Hydrocarbons

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

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink, reading "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 10' (H102224-01)

BTX 8021B		mg/kg		Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	4.86	0.500	10/17/2011	ND	2.08	104	2.00	0.829		
Toluene*	39.5	0.500	10/17/2011	ND	2.07	103	2.00	0.173		
Ethylbenzene*	38.2	0.500	10/17/2011	ND	2.05	102	2.00	0.0754		
Total Xylenes*	143	1.50	10/17/2011	ND	6.20	103	6.00	1.33		

Surrogate: 4-Bromofluorobenzene (PIL) 208 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: AB					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	7790	100	10/17/2011	ND	169	84.6	200	6.36		
DRO >C10-C28	13700	100	10/17/2011	ND	158	78.9	200	9.21		

Surrogate 1-Chlorooctane 185 % 55.5-154

Surrogate: 1-Chlorooctadecane 92.7 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 12' (H102224-02)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.32	0.500	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	34.6	0.500	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	36.8	0.500	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	138	1.50	10/17/2011	ND	6.20	103	6.00	1.33	

Surrogate: 4-Bromofluorobenzene (PIL) 193 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: AB				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6640	100	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	13100	100	10/17/2011	ND	158	78.9	200	9.21	

Surrogate: 1-Chlorooctane 177 % 55.5-154

Surrogate: 1-Chlorooctadecane 99.3 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/14/2011
 Reported: 10/18/2011
 Project Name: BRAHANEY GS 8" LINE 11-027
 Project Number: 701242.009.01
 Project Location: 4-13S-38E

 Sampling Date: 10/13/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B-1 14' (H102224-03)

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.94	0.500	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	50.5	0.500	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	38.5	0.500	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	143	1.50	10/17/2011	ND	6.20	103	6.00	1.33	

Surrogate: 4-Bromofluorobenzene (PIL) 193 % 64 4-134

TPH 8015M		mg/kg		Analyzed By: AB				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	7670	100	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	13100	100	10/17/2011	ND	158	78.9	200	9.21	

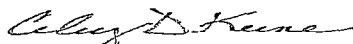
Surrogate: 1-Chlorooctane 183 % 55.5-154

Surrogate: 1-Chlorooctadecane 104 % 57.6-158

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* = Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 16' (H102224-04)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.67	0.500	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	34.2	0.500	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	39.4	0.500	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	154	1.50	10/17/2011	ND	6.20	103	6.00	1.33	

Surrogate: 4-Bromofluorobenzene (PIL) 205 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: AB				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	9170	100	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	20400	100	10/17/2011	ND	158	78.9	200	9.21	

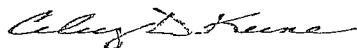
Surrogate: 1-Chlorooctane 207 % 55.5-154

Surrogate: 1-Chlorooctadecane 80.3 % 57.6-158

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/14/2011
 Reported: 10/18/2011
 Project Name: BRAHANEY GS 8" LINE 11-027
 Project Number: 701242.009.01
 Project Location: 4-13S-38E

 Sampling Date: 10/13/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B-1 20' (H102224-05)

BTX 8021B		mg/kg	Analyzed By: AP						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	8.02	0.500	10/17/2011	ND	2.08	104	2.00	0.829		
Toluene*	61.1	0.500	10/17/2011	ND	2.07	103	2.00	0.173		
Ethylbenzene*	48.9	0.500	10/17/2011	ND	2.05	102	2.00	0.0754		
Total Xylenes*	208	1.50	10/17/2011	ND	6.20	103	6.00	1.33		

Surrogate: 4-Bromofluorobenzene (PIL) 232 % 64 4-134

TPH 8015M		mg/kg	Analyzed By: AB						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	15300	100	10/17/2011	ND	169	84.6	200	6.36		
DRO >C10-C28	25100	100	10/17/2011	ND	158	78.9	200	9.21		

Surrogate: 1-Chlorooctane 259 % 55 5-154

Surrogate: 1-Chlorooctadecane 107 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/14/2011
 Reported: 10/18/2011
 Project Name: BRAHANEY GS 8" LINE 11-027
 Project Number: 701242.009.01
 Project Location: 4-13S-38E

 Sampling Date: 10/13/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B-1 30' (H102224-06)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.07	0.500	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	62.2	0.500	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	52.2	0.500	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	219	1.50	10/17/2011	ND	6.20	103	6.00	1.33	

Surrogate: 4-Bromofluorobenzene (PII) 193 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: AB				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	9340	50.0	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	16000	50.0	10/17/2011	ND	158	78.9	200	9.21	

Surrogate: 1-Chlorooctane 172 % 55.5-154

Surrogate: 1-Chlorooctadecane 90.0 % 57.6-158

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/14/2011
Reported: 10/18/2011
Project Name: BRAHANEY GS 8" LINE 11-027
Project Number: 701242.009.01
Project Location: 4-13S-38E

Sampling Date: 10/13/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: B-1 35' (H102224-07)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	<0.050	0.050	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	<0.050	0.050	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	<0.150	0.150	10/17/2011	ND	6.20	103	6.00	1.33	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 64.4-134

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	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	138	10.0	10/17/2011	ND	158	78.9	200	9.21	

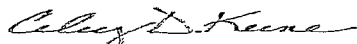
Surrogate: 1-Chlorooctane 96.9 % 55.5-154

Surrogate: 1-Chlorooctadecane 99.7 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/14/2011
 Reported: 10/18/2011
 Project Name: BRAHANEY GS 8" LINE 11-027
 Project Number: 701242.009.01
 Project Location: 4-13S-38E

 Sampling Date: 10/13/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B-1 38' (H102224-08)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	<0.050	0.050	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	<0.050	0.050	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	<0.150	0.150	10/17/2011	ND	6.20	103	6.00	1.33	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

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	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	49.1	10.0	10/17/2011	ND	158	78.9	200	9.21	

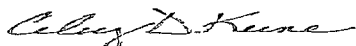
Surrogate: 1-Chlorooctane 91.9 % 55.5-154

Surrogate: 1-Chlorooctadecane 92.2 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/14/2011
 Reported: 10/18/2011
 Project Name: BRAHANEY GS 8" LINE 11-027
 Project Number: 701242.009.01
 Project Location: 4-13S-38E

 Sampling Date: 10/13/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B-1 45' (H102224-09)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	1.82	0.200	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	3.44	0.200	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	15.3	0.600	10/17/2011	ND	6.20	103	6.00	1.33	

Surrogate: 4-Bromofluorobenzene (PIL) 154 % 64 4-134

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	656	50.0	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	3350	50.0	10/17/2011	ND	158	78.9	200	9.21	

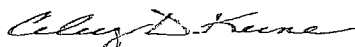
Surrogate: 1-Chlorooctane 108 % 55.5-154

Surrogate: 1-Chlorooctadecane 89.6 % 57 6-158

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Celey D. Keene, Lab Director/Quality Manager

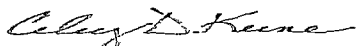
Notes and Definitions

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 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. 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: <u>Talon/LPE</u>		BILL TO		ANALYSIS REQUEST																		
Project Manager: <u>David Addkins</u>		P.O. #:																				
Address: <u>408 W. Main</u>		Company: <u>Talon/LPE</u>																				
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:																				
Phone #: <u>575-746-8768</u> Fax #: <u>575-746-8905</u>		Address:																				
Project #: <u>701242.009.01</u> Project Owner: <u>Centurion</u>		City:																				
Project Name: <u>Bradley B. 8" line 11 027</u>		State: Zip:																				
Project Location: <u>4-135-38E</u>		Phone #:																				
Sampler Name: <u>David Addkins</u>		Fax #:																				
FOR LAB USE ONLY																						
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS	MATRIX	PRESERV.	SAMPLING																	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME									
<u>H102224</u>																						
1	<u>B-1 10'</u>	<u>6</u>			<u>1</u>					<u>1</u>		<u>10-13-11</u>		<u>1</u>	<u>1</u>							
2	<u>B-1 12'</u>	<u>6</u>			<u>1</u>					<u>1</u>		<u>10-13-11</u>		<u>1</u>	<u>1</u>							
3	<u>B-1 14'</u>	<u>6</u>			<u>1</u>					<u>1</u>		<u>10-13-11</u>		<u>1</u>	<u>1</u>							
4	<u>B-1 16'</u>	<u>6</u>			<u>1</u>					<u>1</u>		<u>10-13-11</u>		<u>1</u>	<u>1</u>							
5	<u>B-1 20'</u>	<u>6</u>			<u>1</u>					<u>1</u>		<u>10-13-11</u>		<u>1</u>	<u>1</u>							
6	<u>B-1 30'</u>	<u>6</u>			<u>1</u>					<u>1</u>		<u>10-13-11</u>		<u>1</u>	<u>1</u>							
7	<u>B-1 35'</u>	<u>6</u>			<u>1</u>					<u>1</u>		<u>10-13-11</u>		<u>1</u>	<u>1</u>							
8	<u>B-1 38'</u>	<u>6</u>			<u>1</u>					<u>1</u>		<u>10-13-11</u>		<u>1</u>	<u>1</u>							
9	<u>B-1 45'</u>	<u>6</u>			<u>1</u>					<u>1</u>		<u>10-13-11</u>		<u>1</u>	<u>1</u>							

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Relinquished By: <u>[Signature]</u>	Date: <u>11:40 am</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>10-14-11</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <u>4.50</u>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<u>[Signature]</u>		
	<input type="checkbox"/> No <input type="checkbox"/> No			

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



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

October 01, 2011

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RÉ: CENTURIAN PIPELINE LMEP# 308-11-027

Enclosed are the results of analyses for samples received by the laboratory on 09/27/11 11:59.

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 Hydrocarbons

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

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/27/2011	Sampling Date:	09/26/2011
Reported:	10/01/2011	Sampling Type:	Soil
Project Name:	CENTURIAN PIPELINE LMEP# 308-11-02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 STOCKPILE (H102059-01)

BTEX 8021B	mg/kg	Analyzed By: CMS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.2	1.00	09/28/2011	ND	2.24	112	2.00	5.39	
Toluene*	52.3	1.00	09/28/2011	ND	2.16	108	2.00	4.51	
Ethylbenzene*	42.2	1.00	09/28/2011	ND	2.17	108	2.00	3.91	
Total Xylenes*	181	3.00	09/28/2011	ND	6.51	109	6.00	3.69	

Surrogate. 4-Bromofluorobenzene (PIL) 176 % 64 4-134

TPH 8015M	mg/kg	Analyzed By: ck						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12600	100	09/30/2011	ND	159	79.3	200	1.26	
DRO >C10-C28	23300	100	09/30/2011	ND	183	91.5	200	2.71	

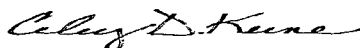
Surrogate. 1-Chlorooctane 281 % 55 5-154

Surrogate. 1-Chlorooctadecane 144 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/27/2011	Sampling Date:	09/26/2011
Reported:	10/01/2011	Sampling Type:	Soil
Project Name:	CENTURIAN PIPELINE LMEP# 308-11-02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 6' (H102059-02)

BTEX 8021B	mg/kg	Analyzed By: CMS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	30.8	1.00	09/28/2011	ND	2.24	112	2.00	5.39	
Toluene*	95.3	1.00	09/28/2011	ND	2.16	108	2.00	4.51	
Ethylbenzene*	53.4	1.00	09/28/2011	ND	2.17	108	2.00	3.91	
Total Xylenes*	232	3.00	09/28/2011	ND	6.51	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PII) 192 % 64 4-134

TPH 8015M	mg/kg	Analyzed By: ck							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11500	100	09/30/2011	ND	159	79.3	200	1.26	
DRO >C10-C28	12500	100	09/30/2011	ND	183	91.5	200	2.71	

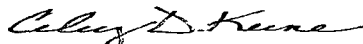
Surrogate 1-Chlorooctane 91.3 % 55 5-154

Surrogate: 1-Chlorooctadecane 102 % 57 6-158

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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	09/27/2011	Sampling Date:	09/26/2011
Reported:	10/01/2011	Sampling Type:	Soil
Project Name:	CENTURIAN PIPELINE LMEP# 308-11-02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 (H102059-03)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.057	0.050	09/28/2011	ND	2.24	112	2.00	5.39		
Toluene*	0.199	0.050	09/28/2011	ND	2.16	108	2.00	4.51		
Ethylbenzene*	0.145	0.050	09/28/2011	ND	2.17	108	2.00	3.91		
Total Xylenes*	0.666	0.150	09/28/2011	ND	6.51	109	6.00	3.69		

Surrogate 4-Bromofluorobenzene (PIL) 116 % 64 4-134

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/30/2011	ND	159	79.3	200	1.26		
DRO >C10-C28	73.0	10.0	09/30/2011	ND	183	91.5	200	2.71		

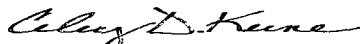
Surrogate 1-Chlorooctane 89 9 % 55 5-154

Surrogate 1-Chlorooctadecane 89 6 % 57.6-158

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/27/2011	Sampling Date:	09/26/2011
Reported:	10/01/2011	Sampling Type:	Soil
Project Name:	CENTURIAN PIPELINE LMEP# 308-11-02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 (H102059-04)

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2011	ND	2.24	112	2.00	5.39	
Toluene*	<0.050	0.050	09/28/2011	ND	2.16	108	2.00	4.51	
Ethylbenzene*	<0.050	0.050	09/28/2011	ND	2.17	108	2.00	3.91	
Total Xylenes*	0.185	0.150	09/28/2011	ND	6.51	109	6.00	3.69	

Surrogate 4-Bromofluorobenzene (PIL) 113 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2011	ND	159	79.3	200	1.26	
DRO >C10-C28	58.6	10.0	09/30/2011	ND	183	91.5	200	2.71	

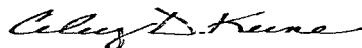
Surrogate 1-Chlorooctane 80.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 82.4 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

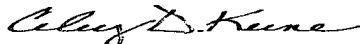
Notes and Definitions

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 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. Keene, Lab Director/Quality Manager



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101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476

Page ____ of ____

Company Name: TALON/LPE		BILL TO		ANALYSIS REQUEST																																																																																																						
Project Manager: D. ADKINS		P.O. #:		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> TPH BTEx TOTAL CHLORIDES </div> </div>																																																																																																						
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<table border="1"> <thead> <tr> <th colspan="2">FOR LAB USE ONLY</th> <th rowspan="2">Lab I.D.</th> <th rowspan="2">Sample I.D.</th> <th rowspan="2">(G)RAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="6">MATRIX</th> <th colspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th></th> <th></th> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER</th> <th>ACID/BASE</th> <th>ICE / COOL</th> <th>OTHER</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>H102059</td> <td>S-1 stockpile</td> <td>✓</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9/26/11</td> <td>1200</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>S-1 6'</td> <td>✓</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9/26</td> <td>1215</td> </tr> <tr> <td>3</td> <td></td> <td></td> <td>S-2</td> <td>✓</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9/26</td> <td>1230</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td>S-3</td> <td>✓</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9/26</td> <td>1235</td> </tr> </tbody> </table>														FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	1		H102059	S-1 stockpile	✓	1									9/26/11	1200	2			S-1 6'	✓	1									9/26	1215	3			S-2	✓	1									9/26	1230	4			S-3	✓	1									9/26	1235
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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished By: <i>[Signature]</i>		Date: 9/27/11	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>		Date: 9/27/11	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Temp. 40°	Sample Condition: Cool Intact	REMARKS:	
Sampler - UPS - Bus - Other:		Temp. 40°	Sample Condition: Cool Intact		

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

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