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TULSA 525 South Main Street Suite 535 Tulsa, Oklahoma 74103 Phone 918.742.0871 Fax 918.382.0232

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

Toll Free: 866.742.0742 www.talonipe.com May 6, 2013

Mr. Geoffrey Leking NMOCD District 1 1625 N French Dr

1625 N. French Dr. Hobbs, NM 88240

Subject:

Soil Remediation Work Plan Centurion Pipeline, L.P. Brahaney 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 Brahaney Gathering System 8-inch Line release. These activities are a follow up to Talon's previous site assessment as directed by the NMOCD. Soil and groundwater sampling results and a proposed work plan to perform soil remediation activities consist of the following:

Incident Date

September 25, 2011

Background Information

The Brahaney Gathering System 8-inch Line is located approximately four (4) miles southeast of Bronco, Texas. 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 under lain by sedimentary rock and hard caliches. Drainage courses in this area are normally dry. Groundwater was measured at 86-88 feet deep in the monitoring wells installed for this project.

<50'

>1000'

>1000'

The ranking for this site is 20 based on the as following:

Depth to ground water Wellhead Protection Area Distance to surface water body approved panding concernence ky handowner & GW Mon perOCD-SF

Environmental Specialist

NMOCO-DIST | 7/09/13

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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 damaged pipeline was replaced on September 26, 2011. The impacted soil relating to the pipeline repairs was excavated, sampled and transported to Gandy Marley 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

Talon 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 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 soil samples were collected from 5-feet deep to a depth of 95-feet deep below land surface. Chloride analysis was added pursuant to the request of New Mexico Oil Conservation Division (NMOCD).

From January 30, 2013 thru February 6, 2013 Talon personnel returned to the site with an air rotary drill rig to drill additional boreholes. These borings were drilled at the request of the NMOCD and the landowner. A subsequent work plan for these tasks was approved by the NMOCD. Undisturbed, split spoon soil samples were collected and sent to Cardinal Laboratories for analysis. Installation of groundwater monitoring wells was also a component of this additional site assessment.

Mr. Leking of the NMOCD and Mr. Harris, landowner, were on-site to witness all of the drilling and sampling activities. Mr. Harris was also given duplicate groundwater samples which were collected in the event he desired independent verification of the laboratory data.

All soil and groundwater samples were collected by Talon personnel wearing clean nitrile gloves. The soil and groundwater 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 were done via Method SM4500Cl-B. The complete laboratory reports are attached as Appendix II.

Soil Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

October 18, 2011, Laboratory Report Date

Sample, Depth	BTEX	<u>TPH</u> (mg/kg)
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, Laboratory Report Date

<u>Sample, De</u>	pth <u>BTEX</u>	Chloride	<u>s TPH</u> (mg/kg)
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

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--Analyte Not Tested

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Soil Analytical Results cont.

February 18, 2013, Laboratory Report Date

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<u>Samp</u>	le, Depth	BTEX	Chlorides	<u>TPH</u> (mg/kg)
B-2	5'	< 0.300		<10
	10'	< 0.300		<10
	20'	< 0.300		<10
	50'	< 0.300		<10
	100'	< 0.300		<10
B-3	5'	< 0.300		<10
D 5	·10'	< 0.300		<10
	20'	< 0.300		<10
	20 50'	< 0.300		<10
	90'	< 0.300		<10
	20	0.200		
B-4	5'	< 0.300		<10
	10'	< 0.300		<10
	20'	< 0.300		<10
	50'	< 0.300		<10
	90'	< 0.300		<10
MW-	2 5'	< 0.300		<10
	10'	< 0.300		<10
	20'	< 0.300		<10
	50'	< 0.300		<10
	100'	< 0.300		<10
	4 5			.1.0
MW-		< 0.300		<10
	10'	<0.300		<10
	20'	<0.300		<10
	50' 100'	<0.300		<10
	100'	< 0.300		<10

--Analyte Not Tested

A Photo Ionization Device (PID Meter) was used to screen additional soil samples for indications of petroleum contamination. Our soil vapor results are presented below.

<u>Samp</u>	ole, Depth	<u>ppm</u> (parts per million)	Sample, Depth	<u>ppm</u>
B-3	5' 10' 20' 35' 40' 45' 65'	0.0 4.3 4.3 4.2 7.6 0.4 0.0	B-5 5' 10' 20' 30' 40' 50' 60'	$\begin{array}{c} 0.0 \\$
	70' 80' 85'	3.7 7.5 0.2	70' 80'	2.6 1.4

Groundwater Monitoring Well Results

July 11, 2012, Laboratory Report Date

<u>Sample</u>	<u>BTEX</u>	Chlorides	<u>TPH</u> (mg/L)
MW-1	0.003	56*mg/L	<1
20.6.2 NMAC**	0.01	250	

*Indicates naturally occurring levels, no chlorides detected in soil samples

**Title 20, Chapter 6, Part 2 of New Mexico Water Quality Control Act, and Human Health Standards

April 3, 2013, Laboratory Report Date

Sample	<u>BTEX</u>	<u>TPH</u> (mg/L)
MW-2	<0.006	<1 .
MW-3	<0.006	<1
MW-4	< 0.006	<1

Depth to Groundwater

<u>Well</u>	Depth (ft)	Date
MW-1	86.85'	2/06/2013
MW-2	88.79'	3/26/2013
MW-3	87.55'	3/26/2013
MW-4	87.13'	3/26/2013

Proposed Remedial Actions

- The contaminated soil in the vicinity of B-1 will be excavated to a depth of 20-feet deep measuring approximately 25-feet long by 20-feet wide. The excavated soil will be transported to a NMOCD approved disposal facility.
- Confirmation soil samples will be collected from the east side wall of the excavation and presented to the NMOCD for permission to cease excavation activities in this direction.
- The excavation will be backfilled using soil purchased from the land owner, Wes Harris, to a depth of 5-feet deep. A 20 mil liner will be subsequently installed. The excavation and liner will then backfilled to surface.
- The area will be contoured to match the surrounding terrain and seeded using the preferred seed mixture of the land owner.

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

Respectfully submitted,

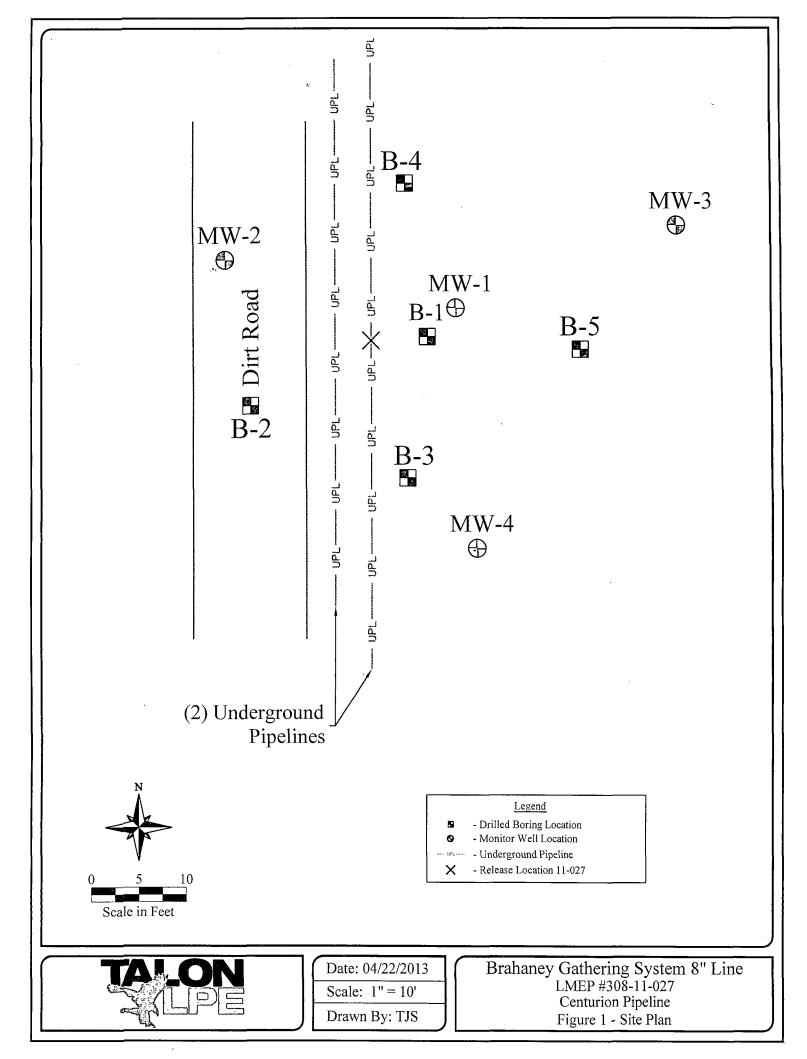
TALON/LPE

1 inkely wilson

Kimberly M. Wilson Énvironment Scientist

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David J. Adkins District Manager





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

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

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

· Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and i



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 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 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)

BTEX 8021B	mg/	kg ·	Analyze	d 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 9	64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d 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 9	6 55.5-15	4						· · · · · ·
Surrogate: 1-Chlorooctadecane	92.7	57.6-15	8						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 12



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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)

BTEX 8021B	mg/l	(g	Analyze	d 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 %	64.4-13	4					- 11	
ТРН 8015М	mg/l	«g	Analyze	d 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 %	55.5-15	4	<u>, , , , , , , , , , , , , , , , , , , </u>					
Surrogate: 1-Chlorooctadecane	99.3 %	6 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 12



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 14' (H102224-03)

BTEX 8021B	mg/	kg	Analyze	d 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	64.4-13	4						
TPH 8015M	mg,	'kg	Analyze	d 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	% 55.5-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



TALON LPE	E
DAVID AD	KINS
408 W. TE	XAS AVE.
ARTESIA N	IM, 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)

BTEX 8021B	mg/	kg	Analyze	d By: AP					5-04
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 9	64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d 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 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	80.3	% 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 12



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 20' (H102224-05)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 64.4-13	4						
TPH 8015M	mg,	/kg	Analyze	d 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	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	107	% 57.6-15	8						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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 30' (H102224-06)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					5-04
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 (PIL	193	% 64.4-13	4		*		······		
TPH 8015M	mg	/kg	Analyze	d 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	
	16000	50.0	10/17/2011	ND	158	78.9	200	9.21	

Surrogate: I-Chlorooctane	172 %	55.5-154
Sutrogate: 1-Chlorooctadecane	90.0 %	57.6-158

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Celuz D. Kune

Celey D. Keene, Lab Director/Quality Manager



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 35' (H102224-07)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2011	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 9	% 64.4-13	4						
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	10/17/2011	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	% 55.5-15	4				<u>.</u>		
Surrogate: 1-Chlorooctadecane	99.7	% 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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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 38' (H102224-08)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	· % Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2011	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 9	% 64.4-13	4				· · · · · · · · · · · · · · · · · · ·		
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	10/17/2011	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	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	92.2	% 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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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 45' (H102224-09)

BTEX 8021B	mg/	′kg	Analyze	d 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	% 64.4-13	4						
TPH 8015M	mg,	/kg	Analyze	d By: AB			·····	·····	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRÓ C6-C10	656	50.0	10/17/2011	ND	169	84.6	200	6.36	
DR0 >C10-C28	3350	50.0	10/17/2011	ND	158	78.9	200	9.21	
Surrogate: 1-Chlorooctane	108	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	89.6	% 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 12

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

	(575) 393-2326 FAX (575) 393-247	6																					_	
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Project Manage	pject Manager:					P	P.O. #:																	
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City: Arte		7Zir	: 8	12	10		A	ttn:			/													
	-746-8768 Fax #: 575	. 2	16	89	05		A	ddres	ss:							Ì								
Project #: 701	242.009.01 Project Owne	r: /	i Pri	til	2.11	~n	с	ity:								1								
Project Name:	Brahaney GS 8" Line	<u>i</u>	.2	27			s	tate:		2	Zip:					1								
Project Location							P	hone	#:															
Sampler Name:	Savid Adkins						F	ax #:																
FOR LAB USE ONLY					MAT	RIX		PRE	SER	ŧ٧.	SAMPLI	NG	Į							-			i	
Lab I.D. $H102220$	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BETX	TPH										
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L	· · · ·		<u></u>				أحطا كالاستبداع مستعبان مشتجه وجرورة فالتنسخ وأنشاه متشته وتوزارت فرعم تعريض وترعي ومستعد متعاد ومستعد ومنا

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



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 accredited in the text of 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 accredited analytes are denoted by an asterisk (*).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TALON LPE 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, SM4500CI-B		/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, 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	03/13/2012	ND	400	100	400	3.92	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM				ζ.	
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, 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	03/13/2012	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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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 25' (H200631-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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	Analyze	d 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	Analyze	d 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	/kg	Analyze	d 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	Analyze	d 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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Celey D. Keene, Lab Director/Quality Manager



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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 65' (H200631-10)

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

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Surrogate: 4-Bromofluorobenzene (PIL 140 % 64.4-134

Chloride, SM4500Cl-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	03/13/2012	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	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	% 55.5-15	4		•				
Surrogate: 1-Chlorooctadecane	102	% 57.6-15	8						

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/12/2012	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	Analyze	d 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 9	% 64.4-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/13/2012	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	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	90.7	% 57.6-15	8						

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Celey & Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/12/2012	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 75' (H200631-12)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 64.4-13	4						
Chloride, SM4500Cl-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	03/13/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ĠRO 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	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	91.5	% 57.6-15	8						

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Celey & Keene

Celey D. Keene, Lab Director/Quality Manager



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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 80' (H200631-13)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 64.4-13	4			<u></u>	••••••••••••••••••••••••••••••••••••••		
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	03/13/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 55.5-15	4					· · ·	· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	92.8	% 57.6-15	8						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/12/2012	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 85' (H200631-14)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9		4						·
Chloride, SM4500Cl-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	03/13/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	109 9	57.6-15	8						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/12/2012	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	Analyze	d 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	% 64.4-13	. 4						
Chloride, SM4500Cl-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	03/13/2012	ND	400	100	. 400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	111	% 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 13



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 95' (H200631-16)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	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 9	64.4-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	16.0	16.0	03/13/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	102 5	57.6-15	8						

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Celey D. Kune

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 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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Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 13

	101 East Marland, Hobbs, NM 88	240																						
·	(575) 393-2326 FAX (575) 393-247	<u>'6</u>								-														
Company Name									1	BI	LL TO		2				AN/	ALYS	SIS RI	EQUE	<u>.ST</u>	<u>.</u>		
Project Manage	" David Rolkin.	V					Ρ.	0. #:								ļ			Į					
Address: 408	. W. Jepas						Co	mpa	any		alor	7	_			·				1				
City: Arter	state: NM						At	tn:		ц			_											
	-746-8768 Fax #: 575-	24	10 -	890	5		Ac	idres	ss:				_											
Project #: 70	1.24.2.007 Project Owne						Ci	ty:						1										
Project Name:	Brakkney 658"	11	14	11-	02	7_	St	ate:			Zip:		_	J							Ĩ.			
Project Location	n: C-4.135-38E				<u></u>		Ph	ione	#:			_		Ŋ]		1
Sampler Name:	Aquid Katkin		ン				Fa	x #:						ζĮ										
FOR LAB USE ONLY		Ι.			MATR			PRE	SE	RV.	SAMPLI	١G	_ `	1					}					.
Lab I.D. H200631	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER	Soil	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	14 10.	111111										
1	B-1 5'	G			1					7	3/9/12				_									
2	B-1 10'	G			1		Γ			7	319/12		$\overline{\mathbf{Z}}$											
3	13-1 15'	G			1					1	39.12		/											
<u> </u>	B-1 20'	6			1					1	3.4.12		1/											
5	B-1 25.	6			1					1	3.9.12		1/	_	_	_								
6	B-1 30'	6			1					1	3.9.12			_		_								
7	B-1 35'	G			1					Δ	3.9.12		1Z		_									
	B-1 40°	G			1					1	3.9.12		12	_										
	B-1 45'	G			1					/	3.4.12		12	_								<u> </u>	<u> </u>	<u> </u>

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Relinquished By:	Date: 1	Received By:	non miy of the above blated re-	Phone Result:	🛛 Yes	D No	Add'l Phone #:	
070-	3 12 2012			Fax Result:	🗆 Yes	D No	Add'I Fax #:	
Rent	Time:	merstellill		REMARKS:				
Relinguished By:	Date: Jiz 7012	Received By:						
mile Sallefield	Time: 1:41 Pm	andi sens	On					
Delivered By: (Circle One)		Sample Condition	CHECKED BY:					
Sampler - UPS - Bus - Other		4.5 Ves Yes No No	(Inittalb)					~

† Cardinal cannot accept verbal changes. Please fax written changes to \$95-393-2476



7

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 88	240	•																
	(575) 393-2326 FAX (575) 393-247	6																 -	
Company Name	" Talon 12PE, .			-10 ¹¹		BII	LL TO						ANA	LYSI	<u>s re</u>	QUE	ST	 . <u></u>	
Project Manage	" DATEd Ad KIRA	/		Ľ	P.O. #:		<u>, , , , , , , , , , , , , , , , , , , </u>		1]			1					
Address: 408	. W Jejan				Compan	Y: L	alor	7				·			ļ				
City: Arte		Zip	»: 88210	4	Attn:						1 *								
Phone #: 575	-746-8768 Fax #: 575-	24	16-8905	/	Address	:					1								
Project #: 70	1243, DOG. C/Project Owne	r: (^	onturious	, (City:							1							
Project Name:	Brahanen GS 8" Lino	Ì	1.027	1	State:		Zip:							Ì					
Project Location	n: C-4-135-38E		·	F	Phone #				12			1							
Sampler Name:	Jaixed haken	مستزة	2	F	Fax #:				13	l							' [
FOR LAB USE ONLY		Γ.	MATRIX		PRES	ERV.	SAMPLI	٧G	1.12	· 、 、									
Lab I.D. H200631	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE	OTHER : ACID/BASE: ICE / COOL	OTHER :	DATE	ТІМЕ	14/041	BTEX	TPH								
1D	B-1 65'	16		j		1	3/9/12			1	1							 	
	B-1 70'	G		i	17		3/9/12												
12	B-1 751	6			17		3/9/12		Z	1	/]			·			
13	B-1 80'	4			1		3/03/182			/	1	•						 	
14	B-1 35	12		Ţ	1/		3/9/12			1	/		<u> </u>					 	
5	B-1 90'	G			1		3/07/12		1	1	/								
16	8-1 95	G			11		3/9/12		17	1	1								
		7-					77					1							
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Relinquished By:	Date; / Received By:	Phone Result:	I Yes	🖾 No	Add'l Phone #:	
	3/12/2012	Fax Result:	C Yes	D No	Add'l Fax #:	
	Time: 10.10 A Mile Shall held	REMARKS:				1
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Relinquished By:	Date: 3/12/2012 Received By:	1				
		1				
markstellfield	Time Pa GOUL ALMON					
Delivered By: (Circle One)	Sample Condition CHECKED BY:					
	Cool Intact (Initials)					
Sampler - UPS - Bus - Other:	45° Pres Pres					
	TIVE NO NO 6/1					^{ال} مح <u>سب سير و مح</u> رم
† Cardinal cannot accept verbal	I changes. Please fax written changes to 505-393,2476					Pa
· · ·	1-110					
	- Har Caller					

Page 13 of 13



February 18, 2013

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 02/06/13 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/01/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: B-4 5' (H300335-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 5	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110 .	200	20.2	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	84.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 5	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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	Received:	02/06/2013	Sampling Date:	02/01/2013
·	Reported:	02/18/2013	Sampling Type:	Soil
	Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
	Project Number:	701242.009.01	Sample Received By:	Daniel Wade
	Project Location:	C-4-13-38		

Sample ID: B-4 10' (H300335-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP .					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41-	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	87.4	% 65.2-14	0		<u>. a </u>				
Surrogate: 1-Chlorooctadecane	112 5	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/06/2013	Sampling Date:	02/01/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: B-4 20' (H300335-03)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 89.4-12	6						
TPH 8015M	mg/	/kg	Anaiyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	77.7	% 65.2-14	10						
Surrogate: I-Chlorooctadecane	103	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/06/2013	Sampling, Date:	02/01/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: B-4 50' (H300335-04)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	· ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	89.4-12	6						
TPH 8015M	mg/	′kg 🤇	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	88.1	% 65.2-14	10					<u> </u>	

Surrogate: I-Chlorooctadecane 108 % 63.6-154

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;	Received:	02/06/2013	Sampling Date:	02/01/2013
	Reported:	02/18/2013	Sampling Type:	Soil
	Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
	Project Number:	701242.009.01	Sample Received By:	Daniel Wade
	Project Location:	C-4-13-38		

Sample ID: B-4 90' (H300335-05)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 5	89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	86.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116 9	63.6-15	4						

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Received:	02/06/2013	Sampling Date:	01/31/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: MW-2 5' (H300335-06)

BTEX 8021B	mg/	'kg	Anałyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	. 02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 5	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS				· · · · · · · · · · · · · · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	87.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

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Received:	02/06/2013	Sampling Date:	01/31/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: MW-2 10' (H300335-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 89.4-12	6						
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	93.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/06/2013	Sampling Date:	01/31/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: MW-2 20' (H300335-08)

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BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	26						
TPH 8015M	mg,	/kg	Analyze	d By: MS			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	78.1	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	94.5	% 63.6-15	54						

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Received:	02/06/2013	Sampling Date:	01/31/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: MW-2 50' (H300335-09)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	76.3	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	93.9	% 63.6-15	4						

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Received:	02/06/2013	Sampling Date:	01/31/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: MW-2 100' (H300335-10)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 89.4-12	6				1		
TPH 8015M	mg,	/kg	Analyze	d By: MS					·=····
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	. Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	87.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/06/2013	Sampling Date:	01/30/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: B-2 5' (H300335-11)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method [,] Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	82.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	i4						

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Received:	02/06/2013	Sampling Date:	01/30/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: B-2 10' (H300335-12)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	77.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.5	% 63.6-15	4						

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Page 13 of 24



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Received:	02/06/2013	Sampling Date:	01/30/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: B-2 20' (H300335-13)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/11/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/11/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/11/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 \$	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	86.5	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

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Received:	02/06/2013	Sampling Date:	01/30/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: B-2 50' (H300335-14)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/12/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/12/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/12/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6					····· · ·	
трн 8015М	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/07/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	87.9	% 65.2-14	.0				·		
Surrogate: 1-Chlorooctadecane	109	% 63.6-15	4						

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Page 15 of 24

1



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Received:	02/06/2013	Sampling Date:	01/30/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: B-2 100' (H300335-15)

BTEX 8021B	mg/	kg	Anaiyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/12/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/12/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/12/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/08/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/08/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	73.7	% 65.2-14	0			·	- · · · · · · · · · · · · · · · · · · ·		
Surrogate: 1-Chlorooctadecane	92.4	% 63.6-15	4						

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Received:	02/06/2013	Sampling Date:	01/31/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: B-3 5' (H300335-16)

BTEX 8021B	mg/	'kg	Analyze	d By: AP	••••				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2013	ND	1.98	99.0	2.00	6.06	
Toluene*	<0.050	0.050	02/12/2013	ND	1.97	98.4	2.00	6.41	
Ethylbenzene*	<0.050	0.050	02/12/2013	ND	1.94	96.8	2.00	7.33	
Total Xylenes*	<0.150	0.150	02/12/2013	ND	5.84	97.3	6.00	7.43	
Total BTEX	<0.300	0.300	02/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
TPH 8015M	mg/	/kg	Analyze	d By: MS					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/08/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/08/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	80.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

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Received:	02/06/2013	Sampling Date:	01/31/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: B-3 10' (H300335-17)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7,13	
Toluene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7.02	
Ethylbenzene*	<0.050	0.050	02/12/2013	ND	1.95	97.3	2.00	7.49	
Total Xylenes*	<0.150	0.150	02/12/2013	ND	5.93	98.8	6.00	7.14	
Total BTEX	<0.300	0.300	02/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 \$	% 89.4-12	6						
ТРН 8015М	mg/	kg	Analyze	d By: MS				·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/08/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/08/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	80.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.9	% 63.6-15	4						

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Received:	02/06/2013	Sampling Date:	01/31/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	C-4-13-38		

Sample ID: B-3 20' (H300335-18)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7.13	
Toluene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7.02	
Ethylbenzene*	<0.050	0.050	02/12/2013	ND	1.95	97.3	2.00	7.49	
Total Xylenes*	<0.150	0.150	02/12/2013	ND	5.93	98.8	6.00	7.14	
Total BTEX	<0.300	0.300	02/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6						<u>.</u>
TPH 8015M	mg,	/kg	Analyze	d By: MS					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/08/2013	ND	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/08/2013	ND	182	91,1	200	3.68	
Surrogate: J-Chlorooctane	74.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.5	% 63.6-15	4						

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Analytical Results For:

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Received:	02/06/2013	Sampling Date:	01/31/2013	i
Reported:	02/18/2013	Sampling Type:	Soil	
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact	
Project Number:	701242.009.01	Sample Received By:	Daniel Wade	
Project Location:	C-4-13-38			

Sample ID: B-3 50' (H300335-19)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7.13	
Toluene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7.02	
Ethylbenzene*	<0.050	0.050	02/12/2013	ND	1.95	97.3	2.00	7.49	
Total Xylenes*	<0.150	0.150	02/12/2013	ND	5.93	98.8	6.00	7.14	
Total BTEX	<0.300	0.300	02/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 89.4-12	6	·····		*****			
ТРН 8015М	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/08/2013	ND 1	200	99.9	200	1.06	
DRO >C10-C28	<10.0	10.0	02/08/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	76.2	% 65.2-14	0			-			
Surrogate: 1-Chlorooctadecane	94.4	% 63.6-15	4						

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Received:	;	02/06/2013	Sampling Date:	01/31/2013
Reported:		02/18/2013	Sampling Type:	Soil
Project Name:		BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:		701242.009.01	Sample Received By:	Daniel Wade
Project Location:		C-4-13-38		

Sample ID: B-3 90' (H300335-20)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7.13	
Toluene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7.02	
Ethylbenzene*	<0.050	0.050	02/12/2013	ND	1.95	97.3	2.00	7.49	
Total Xylenes*	<0.150	0.150	02/12/2013	ND	5.93	98.8	6.00	7.14	
Total BTEX	<0.300	0.300	02/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 89.4-12	6						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/08/2013	ND	200	99.9	200	1.06	
DRØ >C10-C28	<10.0	10.0	02/08/2013	ND	182	91.1	200	3.68	
Surrogate: 1-Chlorooctane	82.1	% 65.2-14	0	· · · · · ·					
Surrogate: 1-Chlorooctadecane	95.1	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune

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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: $David Ad Cins P.O. #: Address: Q \otimes B \cup, T \simeq X \otimes Avr. Company: T \approx I \otimes n/L \square P E City: A \cap T \simeq Lida State: N M Zip: Q \in 2 \setminus O Phone #: G7S - 744 \in 8768 Fax #: 575 - 744 = 9406 Address: Project #: 7 \circ [2 + 2 \cdot o \circ 4 \cdot o] Project #: 7 \circ [2 + 2 \cdot o \circ 4 \cdot o] Project Owner: C \simeq ntarrier P Behle City: Project Manue: C \simeq nt = Bredgen = 9 \otimes 6 Address: Project Name: C \simeq nt = Bredgen = 9 \otimes 8 Bredgen = 9 \otimes 5 Sampler Name: S = bel don = 1 + 1 + Cuccoch Fax #: Values conv V = 0$	(575) 393-2326 FAX (575) 393-24				_
Project Manager: Dawid Ad EinsAddress: $4 \otimes 8$ L. $\Gamma \simeq X \otimes 5$ Avr.Company: $Taloh/LPE$ City: $A \cap r \simeq X \otimes 5$ Avr.City: $A \cap r \simeq X \otimes 5$ Avr.City: $A \cap r \simeq X \otimes 5$ Avr.Phone #: $675 - 744 - 8768$ Fax #: $575 - 744 - 8406$ Address:Project #: $70[242.009.0]$ Project Owner. $Canteries Pileh/City:$ Project Name: $C = A + Brokener/8 ft 3 - 28$ Brakeue GSState: Name: $C = A + Brokener/8 ft 3 - 28$ Brakeue GSProject Location: N 33, 228 W [03, 11]Sampler Name: $5holdon Hit ChracketFor Lasues ourSample I.D.Sample I.D.$	Name: Centurion Pipeline	ne L, P.	BILLTO	ANALYSIS REQUEST	
Address: $4 \circ 8 \vee .7 = 2 \circ 4 \wedge 7 + 2 \circ 4 \wedge 6 \wedge 7 + 2 \circ 4 \wedge 6 \wedge 7 + 2 \circ 4 \wedge 6 \wedge 7 + 2 \circ 4 \wedge 7 + 2 \circ 7 + 2 \circ 4 \wedge 7 + 2 \circ 4 $	Project Manager: David AdRins				1
City: A $f + c + b / a$ State: N M Zip: $g \in 2 \downarrow O$ Attm:Phone #: $675 - 744 - 8768$ Fax #: $575 - 744 - 8465$ Address:Project Owner: $C = h + f + f + f + f + f + f + f + f + f +$			Company: Talon/LPE		}
Phone #: $G75 - 746 - 8768$ Addruss:Project #: $70(242.009.01)$ Project Owner: $Center from Pile/lie City:Project Name: Center from Pile/lie City:Project Name: Center from Pile/lie City:Project Location: N 3), 228M* [03, [1]8"Une [1]:027Phone #:For #:Sampler Name: Shelden [the Cucech"For #:NATE: Sample I.D.Water from #:Project Iocation: N 3), 228M* [o3, [1]8"Une [1]:027Phone #:For #:Sampler Name: Shelden [the Cucech"For #:NATE: Sample I.D.Water from #:1000 BE Sample I.D.Break are from #:Colspan="2">Project Iocation: N 3), 228MATRIXPRESERV! SAMPLINGNATRIXPRESERV! SAMPLINGI III IIII IIII IIIIIIIIIIIIIIIIIIII$	rtchia State: NM	VM Zip: 88210	Attn:		
Project #: $7_0[242.009.0[$ Project Owner: $Conterfien Pile]/ic City: City: City: Project Name: C_{a-4+} Brotheney 8 TF 308 Brokanu GS State: Zip: Project Location: 1/3, 228 WF [03, 11] 8'Line IIP027 Phone #: Project Location: 1/3, 228 WF [03, 11] 8'Line IIP027 Phone #: Fax #: City: City: Sampler Name: 5hol don 1/1/4 Chcock: Fax #: City: City: City: Valuescoar NATRIX PRESERV. SAMPLING City: Valuescoar City: Fax #: City: City: City: Valuescoar City: Fax #: City: City: City: City: Valuescoar City: City: Fax #: City: City: City: City: City: Valuescoar City: City: City: Fax #: City: $	1: 575-746-8768 Fax #: 575	75-746-8405	Address:		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	#: 70/242.004.01 Project Owned	Wher: Centurion Pileli	City:		
Project Location: $N 3$, 228 $M 4$ [03, [1]8' Une II $V 027$ Phone #:Sampler Name: Shelden HitchcockFax #:For LAB USE DNAYLab I.D.MATRIXPRESERV. SAMPLINGMATRIXPRESERV. SAMPLING $M ATRIXPRESERV. SAMPLINGM ATRIX$	Name: Cont Brahaney 8 H 30	308 Brahanu GS	State: Zip:		
FOR LAB USE ONLY JAM LINA PRECLET V JAM LINA PRECLET V JAM LINA Lab I.D. Sample I.D. a_{HVA}	Location: N 33, 228 W- 103, 113	3 8' Une 11=027	Phone #:		
FOR LAB USE ONLY JAM LINA PRECLET V JAM LINA PRECLET V JAM LINA Lab I.D. Sample I.D. a_{HVA}		R	Fax#:		
Lab I.D. Sample I.D.	JSE ONLY		PRESERVI SAMPLING		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	(G)RAB OR (C)OM # CONTAINERS GROUNEWATER WASTEWATER SOIL OIL	ACID/BASE: ICE / COOL THER : ATPO THER :	TPH - BTEX	
3 B-4 20 G3 (2-1-13 A: 16a	1 B-4 5'	61	2-1-13 9:0ra		
			2-1-13 9:109		
			2-1-13 9:16a		
$\frac{4}{5} \frac{10}{6} $			2-1-13 9:400		
			<u>2-1-13 [0:31a</u>		
$\frac{6}{7} \frac{1-31-13}{1-31-13} \frac{1}{9} \frac{1}{43} \frac{1}{43} \frac{1}{1-31-13} \frac{1}{9} \frac{1}{1-31-13} $					
$\frac{1}{8} \frac{1}{1} \frac{1}$			1-31-13 9 10		-]
9 mw - 2 50' $6 9 / (1-3) - 13 10' 0.3 a$	9 MW-2 50	<u><u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u>	1-31-13 10-07 -		-
10 MW-2 100' G 10 / 1 -31-13 10:204	10 MW-2 100'		1-31-13 10:200		-

PLEASE NOTE: Usefully and Damages. Cardina's balantly and client's exchance remeaty for any clama maxing whether hossel in contractor fair, shall be limited to the amount paid by the client for the analyses. All claims including those for negligibility and only other cause wholeseveri shall be deemed waived unless made in witting and received by Caudina's within 30 days atter completion of the applicable service. In one event shall Cardinal be liable to includent by consequent damages, including thickatted, but subscaled by Caudina's within a client by Client, its subscale at damages, including without linuitation, but next since service to or less for an event shall be determined by client, its subscale at damages, including without linuitation, but next since service to a client of praise for any client damages, including without linuitation, but next since service to a client of praise for any client by client.

othilates or successors orision out of or related to file performance of services hereunder by Carrinal, reporties of whether such claim is based upon any of the above stated reasons or otherwise Relinguished By: Date Received By: Phone Result: C Yes C) No Add'l Phone #: Fax Result: 2/6/13 O No Cl Yes Add'I Fax #: Time: 30 REMARKS: * Project name changed as per David. 2/18/13 Ck Relinquished By: alword Date: Received By: Time: Delivered By: (Circle One) CHECKED BY: Sample Condition Cool Intact 49 Sampler - UPS - Bus - Other: No No

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88	240			
(575) 393-2326 FAX (575) 393-247	6			
Company Name: Centurion Pipeline	L, P.	BILL TO	.:	ALYSIS REQUEST
Project Manager: David Ad Rins		P.O. #:		
Address: 408 W. TEXAS AVE		Company: Taloh/LPE		
city: Artesia State: NM	Zip: 8620	Attn:		
Phone #: 675-746-8768 Fax #: 575		Address:		
Project #: 70 242.009.0 Project Owne		Cily:		
Project Name: Cout Brahaney 8 # 30	R. Brahanen GS	State: Zip:	6	
Project Location: N 33, 228 W- 103.113	8" Line 11=027	Phone #:	E T	
Sampler Name: Sheldon Hit Chcock		Fax #:	802	
FOR LAB USE ONLY	MATRIX	PRESERV SAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)CMP # CONTAINERS (GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACIDIBASE: ICE / COOL OTHER : IME	774-8 BTEX-	
11 8-2 5'	617	1-30-13 12:00		
12 8-2 10'	62	1-30-13 2:101		
13 3-2 20'	63	1-30-13 12:29		
14 3-2 50'	G H	1-30-131:05		
15 8-2 100'	<u>G</u> 5	1-30-W3:00P		
16 B-3 5'	<u><u>G</u><u>k</u></u>	1-31-131:326		
17 B-3 10'	G7	1-31-131:35 F		
18 13-3 20'	G8	1-31-13 1:390		
19 19-3 50'	<u>G9</u>	1-31-132.03		
20 10-3 90' PLEASE NOTE: Liability and Damages. Cardinalia kalakity and chemi's erclimitive remeity for	GID.	1 1-31-13 21.54		
I GETTER TO THE REPORT DATE DATE DATE OF THE REPORT OF THE PARTY OF THE PARTY OF THE PARTY OF	and rear ourself surveyer oused at country	a or tore, show the stigten to that element hast the file cases	Mr 4171	

analyses. All claims including thate lar registence and any other cause whatswever shall be deemed waved waters made in writing and receiven by Cardinal wider 30 days alter completion of the applicab

service. In no event shall Cardinal be table for incidential or consequential damages, including without landation, tariness interruptions, has ut use, or less of profile incurrent by client, its subsubaires,

ansates or successors ansate out or returen to the perioritrance of	services nerenner by Ca	numal terminist	of whether such clum is diver	d upon any of the above stated in	north of attenuise.			
Relinguished By:	Date:	Received	By:		Phone Result:	🗆 Yes	O No	Add'l Phone #:
1 . 1	216/13	\sim	\sim		Fax Result:	O Yes	O No	Add'l Fax #:
Di da Ari	Time:	$\langle \rangle$	- 11	2	REMARKS:			
Shelder Hurrean	8:50	le-	$-e_{n}$	Jan				
Relinquished By:	Date:	Received	By:					
	Time:							
Delivered By: (Circle One)			Sample Condition	CHECKED BY:				
		, D	Cool Intact	(hill)				
Sampler - UPS - Bus - Other:	i		Ves Pres	LDW				
		10	No No	1				
				•				•

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 392-2326



February 18, 2013

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 02/13/13 10:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/13/2013	Sampling Date:	02/06/2013
Reported:	02/18/2013	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:	C-4-13-38		

Sample ID: MW - 4 5' (H300403-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2013	ND	2.04	102	2.00	9.03	
Toluene*	<0.050	0.050	02/13/2013	ND	2.04	102	2.00	9.03	
Ethylbenzene*	<0.050	0.050	02/13/2013	ND	2.02	101	2.00	9.17	
Total Xylenes*	<0.150	0.150	02/13/2013	ND	6.20	103	6.00	8.78	
Total BTEX	<0.300	0.300	02/13/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 5	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2013	ND	207	104	200	0.815	
DRO >C10-C28	<10.0	10.0	02/15/2013	ND	170	85.2	200	5.23	

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

73.0%

91.9%

65.2-140

63.6-154

*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2013	Sampling Date:	02/06/2013
Reported:	02/18/2013	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:	C-4-13-38		

Sample ID: MW - 4 10' (H300403-02)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Anałyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2013	ND	2.04	102	2.00	9.03	
Toluene*	<0.050	0.050	02/13/2013	ND	2.04	102	2.00	9.03	
Ethylbenzene*	<0.050	0.050	02/13/2013	ND	2.02	101	2.00	9.17	
Total Xylenes*	<0.150	0.150	02/13/2013	ND	6.20	103	6.00	8.78	
Total BTEX	<0.300	0.300	02/13/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2013	ND	. 207	104	200	0.815	
DRO >C10-C28	<10.0	10.0	02/15/2013	ND	170	85.2	200	5.23	
Surrogate: 1-Chlorooctane	71.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.9	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2013	Sampling Date:	02/06/2013
Reported:	02/18/2013	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:	C-4-13-38		

Sample ID: MW - 4 20' (H300403-03)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2013	ND	2.04	102	2.00	9.03	
Toluene*	<0.050	0.050	02/13/2013	ND	2.04	102	2.00	9.03	
Ethylbenzene*	<0.050	0.050	02/13/2013	ND	2.02	101	2.00	9.17	
Total Xylenes*	<0.150	0,150	02/13/2013	ND	6.20	103	6.00	8.78	
Total BTEX	<0.300	0.300	02/13/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 89.4-12	6					1	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2013	ND	207	104	200	0.815	
DRO >C10-C28	<10.0	10.0	02/15/2013	ND	170	85.2	200	5.23	
Surrogate: 1-Chlorooctane	71.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.6	% 63.6-15	4						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2013	Sampling Date:	02/06/2013
Reported:	02/18/2013	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:	C-4-13-38		

Sample ID: MW - 4 50' (H300403-04)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2013	ND	2.04	102	2.00	9.03	
Toluene*	<0.050	0.050	02/13/2013	ND	2.04	102	2.00	9.03	
Ethylbenzene*	<0.050	0.050	02/13/2013	ND	2.02	101	2.00	9.17	
Total Xylenes*	<0.150	0.150	02/13/2013	ND	6.20	103	6.00	8.78	
Total BTEX	<0.300	0.300	02/13/2013	ND					
		· · ·							

Surrogate: 4-Bromofluorobenzene (PIL 108 %

TPH 8015M	mg	/kg	Analyze	d By: MS			I		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2013	ND	. 207	104	200	0.815	
DRO >C10-C28	<10.0	10.0	02/15/2013	ND	170	85.2	200	5.23	
Surrogate: 1-Chlorooctane	72.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.2	% 63.6-15	4						

89.4-126

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2013	Sampling Date:	02/06/2013
Reported:	02/18/2013	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:	C-4-13-38		

Sample ID: MW - 4 100' (H300403-05)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2013	ND	2.04	102	2.00	9.03	
Toluene*	<0.050	0.050	02/13/2013	ND	2.04	102	2.00	9.03	
Ethylbenzene*	<0.050	0.050	02/13/2013	ND	2.02	101	2.00	9.17	
Total Xylenes*	<0.150	0.150	02/13/2013	ND	6.20	103	6.00	8.78	
Total BTEX.	<0.300	0.300	02/13/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6			<u> </u>			
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2013	ND	207	104	200	0.815	
DRO >C10-C28	<10.0	10.0	02/15/2013	ND	170	85.2	200	5.23	
Surrogate: 1-Chlorooctane	77.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.9	% 63.6-15	4						

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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 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

Page 7 of 8



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240		
(575) 393-2326 FAX (575) 393-2476	BILL TO	ANALYSIS REQUEST
Project Manager: Maria Hakins	P.O. #:	
Address: 408 jus. Jeran	Сотрану: Элог	
City: Artosia State: NM Zip: 88211	Attn:	
City: 4 tos a pull On & Fourth Entry 111	Address:	
Phone #: 575-746-3760 Fax #: 979-746	City:	
Project #: 1013 43. 0614, 01 Project Owner: Oriunic re	State: Zip:	
Project Name: Hardrey GS 8 Une 11-027		
City: Artosia State: NAT Zip: 88,211) Phone #: 575-746-8768 Fax #: 575-746 Project #: 7012 4.3. 009, 01 Project Owner: Conturiore Project Name: Gratiens 65 8" Line 11-027 Project Location: C-4-13-38 Sampler Name: Gratienty M. Wilson FOR LAR LEE ONLY	Phone #: Fax #:	
FOR LAB USE ONLY MATRI	PRESERV. SAMPLING	
(C)OMP ERS ER		
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affiliates or successors dising out of or related to the performance of services hereunder by Cardinal, regardless of whether such Relinguished By: Date; Received By:	im is based upon any of the above stated reasons or otherwite Phone Re	
7/13/13	Fax Resu	
Winklerg M. Wilson Time: 09 8-0 a	Fax Resu REMARK	
Refinquished By: Refinquished		

CHECKED BY: (Initials)

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

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Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#24

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5 đ, Sattiple Condition Cool Intact Yes Yes No No

Page 8 of 8



July 11, 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 07/05/12 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Lope S. Moreno

Hope Moreno Inorganic Technical Director

Page 1 of 4



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

Received:	07/05/2012	Sampling Date:	07/03/2012
Reported:	07/11/2012	Sampling Type:	Water
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: MW - 1 (H201524-01)

BTEX 8021B	mg/	L	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.003	0.001	07/10/2012	ND	0.047	93.9	0.0500	4.43	
Toluene*	0.002	0.001	07/10/2012	ND	0.047	94.2	0.0500	6.56	
Ethylbenzene*	<0.001	0.001	07/10/2012	ND	0.049	98.3	0.0500	7.81	
Total Xylenes*	<0.003	0.003	07/10/2012	ND	0.147	97.7	0.150	8.64	
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	'L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	56.0	4.00	07/06/2012	ND	104	104	100	3.92	
трн 8015м	mg/	′L	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	07/06/2012	ND	45.0	90.0	50.0	3.52	
DRO >C10-C28	<1.00	1.00	07/06/2012	ND	47.8	95.5	50.0	3.75	
Surrogate: 1-Chlorooctane	80.1	% 48.7-16	4						
Surrogate: 1-Chlorooctadecane	95.7	% 54.8-16	5						

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Lope S. Moreno-

Hope Moreno, Inorganic Technical Director

Page 2 of 4



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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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Hope Moreno, Inorganic Technical Director.

Page 3 of 4



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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	(575) 393-2326 FAX (575) 393-247	6										in the second											
Company Name	Company Name: Jalon / LPE					BILL TO			ANALYSIS REQUEST														
Project Manage	Project Manager: DAVIA AAICIAS				P.0	0. #:			_			1]					1			
Address: 40	18 W. Jesas						Co	mpan	iy: /	Jaler	TIPE												
City: Arte	sia State: MM	Zip:	88	21	\mathcal{O}		At	én:			ŀ	\square											
Phone #: 575	5-1746-8968 Far #: 575-	74	46-	84	DÉ	7	Ad	dress	:			12		~	ļ								
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Project Location	n:						Ph	one #	:			12		6					1				
Sampler Name:	David Adkin	8					Fa	oc #:				N		1									
FOR LAB USE ONLY		ÍΤ		٨	ATR	IX		PRES	ERV	SAMPLI	NG			. X							1		
Lab I.D.	Sample I.D.	(G)RAB.OR (C)OMP	GROUNDWATER	WASTEWATER	SOIL	DGE	OTHER:	ACID/BASE: ICE / COOL	OTHER :			Hota D	TPH	h ler									
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



April 03, 2013

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

RE: CENT BRANANEY

Enclosed are the results of analyses for samples received by the laboratory on 03/27/13 8:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Kune

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/27/2013	Sampling Date:	03/26/2013
Reported:	04/03/2013	Sampling Type:	Water
Project Name:	CENT BRANANEY	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	NONE GIVEN		

Sample ID: MW - 2 (H300725-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	04/02/2013	ND	0.053	107	0.0500	5.32	
Toiuene*	<0.001	0.001	04/02/2013	ND	0.053	106	0.0500	5.35	
Ethylbenzene*	<0.001	0.001	04/02/2013	ND	0.052	104	0.0500	4.99	
Total Xylenes*	<0.003	0.003	04/02/2013	ND	0.153	102	0.150	3.77	
Total BTEX	<0.006	0.006	04/02/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	% 89.4-12	26						
ТРН 8015М	mg/	L	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	03/28/2013	ND	55.7	111	50.0	0.313	
DRO >C10-C28	<1.00	1.00	03/28/2013	ND	54.4	109	50.0	0.0184	
EXT DRO >C28-C35	<1.00	1.00	03/28/2013	ND	ND		0.00		
Surrogate: 1-Chlorooctane	100 9		54						
Surrogate: 1-Chlorooctadecane	114 9	6 54.8-10	55						

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	03/27/2013		Sampling Date:	03/26/2013
Reported:	04/03/2013		Sampling Type:	Water
Project Name:	CENT BRANANEY		Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	•	Sample Received By:	Daniel Wade
Project Location:	NONE GIVEN			

Sample ID: MW - 3 (H300725-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	04/03/2013	ND	0.053	107	0.0500	5.32	
Toluene*	<0.001	0.001	04/03/2013	ND	0.053	106	0.0500	5.35	
Ethylbenzene*	<0.001	0.001	04/03/2013	ND	0.052	104	0.0500	4.99	
Total Xylenes*	<0.003	0.003	04/03/2013	ND	0.153	102	0.150	3.77	
Total BTEX	<0.006	0.006	04/03/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	89.4-120	5						
TPH 8015M	mg/	L	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	03/28/2013	ND	55.7	111	50.0	0.313	
DRO >C10-C28	<1.00	1.00	03/28/2013	ND	54.4	109	50.0	0.0184	
EXT DRO >C28-C35	<1.00	1.00	03/28/2013	ND	ND		0.00		
Surrogate: 1-Chlorooctane	101 9	% 48.7-16-	4						
Surrogate: 1-Chlorooctadecane									

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/27/2013	Sampling Date:	03/26/2013
Reported:	04/03/2013	Sampling Type:	Water
Project Name:	CENT BRANANEY	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Daniel Wade
Project Location:	NONE GIVEN		

Sample ID: MW - 4 (H300725-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	04/03/2013	ND	0.053	107	0.0500	5.32	
Toluene*	<0.001	0.001	04/03/2013	ND	0.053	106	0.0500	5.35	
Ethylbenzene*	<0.001	0.001	04/03/2013	ND	0.052	104	0.0500	4.99	
Total Xylenes*	<0.003	0.003	04/03/2013	ND	0.153	102	0.150	3.77	
Total BTEX	<0.006	0.006	04/03/2013	ND					
Sutrogate: 4-Bromofluorobenzene (PID	105 9	% 89.4-12	6						
TPH 8015M	mg/	۲ L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	03/28/2013	ND	55.7	111	50.0	0.313	
DRO >C10-C28	<1.00	1.00	03/28/2013	ND	54.4	109	50.0	0.0184	
EXT DRO >C28-C35	<1.00	1.00	03/28/2013	ND	ND		0.00		
Surrogate: 1-Chlorooctane	99.4	% 48.7-16	4						
Surrogate: 1-Chlorooctadecane	109 9	% 54.8-16	5						

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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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*=Accredited Analyte

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Celay D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 6

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Page 6 of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

•	101 East Marland, Hobbs, NM 88 (575) 393-2326 FAX (575) 393-247		· · ·	·		: ·		· ·	
Company Name	Talon/LPE		BILL TO			ANALYS	IS REQUEST		
Project Manage	Talon/LPE D. Adkins		P.O. #:						
	8 W. Texas Ave.	· · ·	Company: Talan/1	PE					
City: Artes	a State: NN	Zip: 8820	Attn:						•
Phone #: 575	-746-8768 Fax #: 575-	746-8905	Address:						
	242.009.0 Project Owne		City:						
	Cont Brananey	· . ·	State: Zip:						
Project Location			Phone #:		· .				
Sampler Name:	sheldon Hitchcock		Fax #:						
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLI	NG					
Lab I.D. H320725	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUUGE OTHER : ACID/BASE: ICE / COOL OTHER : OTHER :	H d TIME	BTEX				
	MW-2	G Y	7-26-13	11:19					
2	<u>mw-3</u> mw-4	G H /		12:00					
·3	MW-4	G4/		12:35					
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		┨╌┨┅┫╴┼╌┼╶┼╼┾		· · ·	i		-}}		
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		╉╾┨╌┨╶┼╶┼╧┼╸	╺┼╶╢╌┼━┞╌╢╌╧┈╌╴┤	 			╂─╌╂──╄─		
i	· · · · · · · · · · · · · · · · · · ·	╢╌╢╌╢╌╢╼┽╶┼╶┼					╉═╾┠╼╌┠╶		
analyses. All claims includir service. In no event shall Ca	nd Damages. Cardinat's liability and client's exclusive remedy for ng those for negligence and any ether cause whatsoever shall be arctinat be liable for incidential or consequential damages, includin og out of or related to the performance of services hergundar by (deemed waived unless made in willing : g without limitation, business interruption Cardinal, recordless of whether such clai	and received by Carolinal within 30 days aller is, loss of use, or loss of profils incurred by o	completion of the applica ient, its subsidiaries,		No Add'I Phone	ə <u>k</u> kl		
	Alterrow Jimes	+ O(7)	<u> </u>	Fax Result:		No Add'l Fax #:			

Reinquisited by.	Dale. a a/17	Kecelved By	Phone Result: LI Yes LI No	Add I Phone #:	
Sfeldon Alterroca	3/27/13		Fax Result: 🛛 Yes 🗆 No	Add'l Fax #:	
Grewow (version of the	Time:	Yot blake	REMARKS:		
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	Time:	· ·	•		ĺ
Delivered By: (Circle One)	1	Sample Condition CHECKED BY:		-	
		Cool Infact		· ·	
Sampler - UPS - Bus - Other:					
		A NO NO GA			· · · · ·

† Cardinal cannot accept verbal changes. Please fax written changes to 5051393-24

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