BOPCO PLU-409H

CLOSURE REPORT

2RP-2135

API No. 30-015-41136

Release Date: 12/25/2013

Unit Letter B, Section 28, Township 24 South, Range 31 East

June 16, 2014

Prepared by:

Environmental Department Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 Phone: (575)964-8394

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Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575)964-8394

PLU #409

1 Site Objectives

BOPCO has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located south east of Carlsbad NM, in Unit letter B, Township 24 South, and Range 31E. The site resulted from an 8" flange break down on the discharge side of the water transfer pump. The leak released produced water onto approximately 48,633 square feet of the lease road, traveled north, exiting the lease road onto the pasture area, and road area east of the Buck Jackson lease road forming a split. The valve on the discharge side of the pump was closed stopping the flow of water. Approximately 180bbls of produced water was released with recovering 100bbls of produced water. The C-141 was submitted to the NMOCD on December 26, 2013 (Appendix I). According to the U.S. Geological Survey and the NM Office of the State Engineer; the depth to groundwater in the area averages 265 foot below ground surface, therefore there is no eminent danger of groundwater impact, threat to natural habitat or human life.

2 SITE ACTIVITIES

On December 30, DFSI personnel entered the site to collect surface soil samples from the site and perform an initial site assessment. The samples were field screened for chloride and these indicated that all surface samples were elevated in chlorides with the exception of SP5, whereby two consecutive field tests resulted in chloride levels at less than 1000 mg/kg. The highest level of Chloride analyses were at the SP1, SP2 (point of release) and SP3 where fluids exited the lease road to the pasture. This was a low lying area where a pooling affect took place allowing a greater saturation, therefore SP3 returned a result of 38,263 mg/kg for chloride on the field analysis at surface.

On January 06, 2014 DFSI personnel revisited the site and further delineated the source of the spill area, as well as where the spill exited the lease road. There were also samples collected from the interior wall of the south leg as can be seen on the site diagram. These were sent to a commercial laboratory for analysis. The results returned non-detectable limits for BTEX, DRO and GRO were <10.0 mg/kg.

On January 07, 2014 personnel again visited the site for confirmation samples of the end area of the north leg and south leg respectively, whereby these were labeled SP10, North, East,

South and Bottom (Bottom is defined as 3'bgs for north and 4'bgs for south). These were sent to a commercial lab in order to confirm the ending of the impacted area. The results confirmed that SP10 located at the wall north, and immediately south of the buried lines were non-detectable for chlorides. Furthermore, SP10 at the east wall of the north leg also returned as non-detectable for chlorides. SP10 located in the end of the south leg returned an acceptable level of chloride, in that chloride was at 48 mg/kg., likewise with the base of these sample points known as the floor or bottom. Therefore, determining that this was the end of the traversed spill area.

On January 08, 2014 DFSI personnel revisited the site to delineate SP8 and SP9 of both the north and south wall. SP8 of the north wall, as well as the bottom sample, located just south of the buried line returned non-detectable levels for chlorides, as well as BTEX (Appendix IV). SP9 of both the north and south wall, as well as the bottom sample for the center of the spill area of the south leg 4'bgs, returned acceptable levels of chlorides at <16.0 mg/kg and BTEX <0.300.

On January 09, 2014 DFSI personnel returned to the site in order to further delineate the sidewall samples for SP6 and SP7. These were simultaneously field tested until acceptable results were obtained. Representative soil samples were submitted to a commercial laboratory for confirmation. SP7 at the north wall just south of the buried line returned chloride results of 64 mg/kg. SP7 at the south wall returned results of chloride at <16mg/kg, whereas the bottom sample for the south leg returned results of 336mg/kg in chloride at 3'bgs.

On January 15, 2014 DFSI personnel retrieved a confirmation sample from the bottom of the excavation floor at 3'bgs for SP1 of the south leg. This representative sample was sent to the commercial laboratory for confirmation. The analysis returned a result of 16mg/kg for chloride and non-detectable levels for GRO and DRO.

On January 22, 2014 DFSI personnel returned to the area of the leak source, known as SP1NW, SP1SW, and SP1B respectively. A representative sample for the wall of the excavation, as well as the bottom of the excavated area at 3'bgs were retrieved and sent to a commercial laboratory for confirmation. The analysis revealed acceptable levels of chloride at <16 mg/kg, BTEX <.300 mg/kg, and DRO, GRO were non-detectable.

NMOCD and BLM representatives approved backfill of the excavation. A total of 3706.8 tons of contamination was hauled to an approved disposal site. DFSI backfilled the pasture area with 2,214 tons of imported topsoil from an NMOCD approved facility. BOPCO provided the remainder of topsoil, and caliche from various other sundry sites. The area was then contoured to the surrounding landscape.

3 Site Ranking Criteria

Description	Ranking Score
Depth to Ground Water	0
Wellhead Protection Area	0
Distance to Surface Water Body	0

With the Site Ranking of -0-, therefore the remediation action level that may be required for the above ranking is as follows:

Benzene – 10ppm (mg/kg) BTEX – 50ppm (mg/kg) TPH – 5000ppm (mg/kg) Chlorides – 1000ppm (mg/kg)

4 Conclusion

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater in the area averages greater than 265'bgs (Appendix III). Based on the removal of soils containing elevated chloride and visual staining at the site, BOPCO respectfully requests the closure of the regulatory file for the PLU #409.

Appendix I

INITIAL FORM C-141

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394 District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Bum Copy (2/27/13 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

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Date: 12/26/	13			Phone: 432-556-8	2730					Attached	Ш	
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Appendix II

GROUNDWATER DATA

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

DEPTH TO GROUNDWATER

BOPCO PLU #409

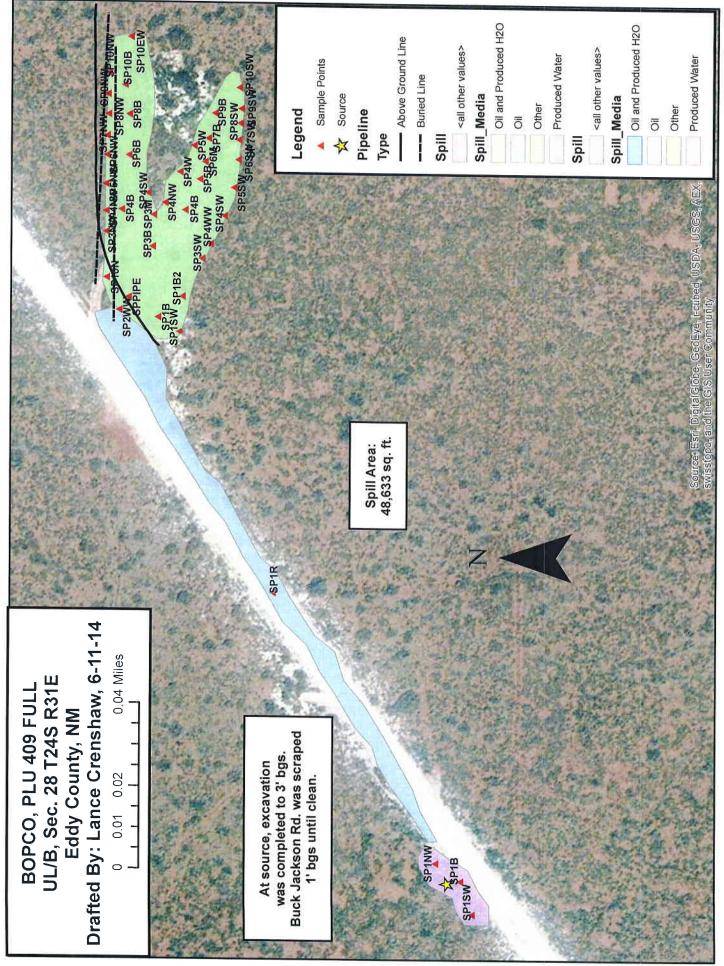
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Groundwa	ater Depth:	~265	ft. averag	ged
= NM Office of the= U.S. Geological= Site Location	e State Engineer Survey (unknown wel	NMOCD G	W trend map - 350 to 37	75 ft bgs Date: 01/24/2014 By: Rebecca Pons
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		• 125' JM Trst STK	• 400' Brininst	ool Ranch
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Appendix III

EXCAVATION PLAT

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

Excavation Plat



Oil and Produced H2O Oil and Produced H2O - Above Ground Line <all other values> Produced Water Produced Water Sample Points --- Buried Line Spill_Media Source 🛠 Spill_Media Other Other **Pipeline** Legend Ö Type Spill Spill **Excavation Plat** Drafted By: Lance Crenshaw, 6-11-14 BOPCO, PLU 409 SOURCE UL/B, Sec. 28 T24S R31E Eddy County, NM 0.02 Miles was completed to 3' bgs. Buck Jackson Rd. was scraped At source, excavation 1' bgs until clean. 0.005 0.01 SPINW SP1SW

Appendix IV

FIELD NOTES

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

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SP204 16	40 10 0	18 199°	n/a n/a	1.30 135 140 1.45
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Agree .							

Pets. W.P.

PLU 40	d		Bopco			1-15	7 me 10:30 10:35 10:45
PLV YO Sumple TOD SPIR POINT SPIR BUALL SPIR BUALL	9.50il	g-water	misample	Agno 3	24 24 24 24 24	pto	Tine
SPEPIPE	16	40	10	0.08	199	n la	10.2
SPIQ BIT	16	90	10	0.09	224	Na	10.30
SPIR Swall	16	40	10	0.10	249	pla	10.96
SPIBBOT 2	16	40	10	0.00	224	0/0	1000
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		(40)					
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AU You Sumple ID 9.	B	2000		1-20	-14
Sample ID 9.	501 9 under 16	misample Agno	3 Cl	PID	Line
SPROON I'S	16 40	10 0.19	524	1/9	10:00
SPEROUD 2	6 96	10 0:10	524 474	n/a	10105
\$120 Nugl 16	6 90	10		nla nla	10,00
5/20 Nical 16		10 0,17	424	nla	10:25
5P/0544 1	9 40	10 0.15	374	nla	1230
				770	
Note &- 0	Surple 2 at couther more execution	all was still dut	at time of	2 at 111	7.
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LV YOU Ample ID PAN Swail PAN Swail		Bopco			1-22	-14
impleto	9651	guates mls	umple Agno 3	CL	1-22 NF10	4ine 9:30 9:35 9:40
PlaNag!	16	40 10	-30	499	nlg	9:30
PAW Swail	16	1/0 /0	122	274	nla	9:35
PR B	16	40 10	122	549	n/a n/a	9140
4.						
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Appendix V

SOIL CHEMISTRY TABLE

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

PLU-409H Soil Chemistry Table Insitu

Date 1/6/2014	Lab ID	Sample ID	TPH MG/KG	BTEX MG/KG	Chloride MG/KG	Statu
1/6/2014	H400036	SP1 at wall	<10	< 0.300	N/S	Insit
1/6/2014	H400036	SP2 at wall	<10	< 0.300	N/S	Insit
1/6/2014	H400036	SP3 at mid	<10	< 0.300	N/S	Insit
1/6/2014	H400036	SP4 at wall	<10	<0.300	N/S	
1/6/2014	H400036	SP5 at wall	<10	<0.300	N/S	Insit
1/6/2014	H400036	SP6 at mid	<10	<0.300	N/S	Insit
			E CHANGE OF	0.000	14/5	Insit
1/7/2014	H400044	SP10 at wall N			440	
1/7/2014	H400044	SP10 at wall E			<16	Insit
1/7/2014	H400044	SP10 at wall S			<16	Insit
1/7/2014	H400044	SP10 at wall B	<10	10.000	48	Insit
		or to at wall b	~10	<0.300	48	Insit
1/8/2014	H400063	SP8 at bottom	-10	A DESCRIPTION OF		
1/8/2014	H400063	SP8 at s wall	<10	<0.300	<16	Insite
1/8/2014	H400063				<16	Insitu
1/8/2014	H400063	SP8 at n wall			<16	Insitu
1/8/2014	H400063	SP9 at bottom	<10	< 0.300	<16	Insitu
1/8/2014	H400063	SP9 at s wall			<16	Insitu
170/2014	H400063	SP9 at n wall			<16	Insitu
1/9/2014	11400000				THE PROPERTY OF	
1/9/2014	H400083	SP7 at s wall			<16	Insitu
	H400083	SP7 at n wall			64	Insitu
1/9/2014	H400083	SP7 at bottom			336	Insitu
1/9/2014	H400083	SP6 at s wall			<16	Insitu
1/9/2014	H400083	SP6 at n wall			<16	Insitu
1/9/2014	H400083	SP6 at bottom			176	Insitu
***	1/10/2009		The state of the state of	Total Section 1		monu
1/10/2014	H400093	SP4 at n wall			<16	Insitu
1/10/2014	H400093	SP4 at s wall			<16	Insitu
1/10/2014	H400093	SP4 at w wall			<16	
1/10/2014	H400093	SP4 at bottom			<16	Insitu
1/10/2014	H400093	SP5 at n wall			128	Insitu
1/10/2014	H400093	SP5 at s wall				Insitu
1/10/2014	H400093	SP5 at bottom			192	Insitu
BILL ST		TO LEASE DE LA CALLERANT	Cultury and a		<16	Insitu
1/15/2014	H400135	SP3 at B	THE RESIDENCE			
1/15/2014	H400135	SP3 at n wall			<16	Insitu
1/15/2014	H400135	SP3 at s wall			<16	Insitu
1/15/2014	H400135	SP4 at B			<16	Insitu
1/15/2014	H400135				64	Insitu
1/15/2014	H400135	SP4 at n wall			<16	Insitu
1/15/2014	H400135	SP4 at s wall	40		<16	Insitu
1/15/2014	H400135	SP at pipe	<10	<0.300	<16	Insitu
1/15/2014	H400135	SP1 at s wall	<10	<0.300	32	Insitu
1/15/2014		SP1 at B	<10	<0.300	<16	Insitu
1713/2014	H400135	SP1 at B2	<10	< 0.300	<16	Insitu
1/20/2014	H400474	CONTRACTOR CONTRACTOR CONTRACTOR AND I			NAME OF TAXABLE	1000000
	H400171	SP1 at road at 1 ft			272	Insitu
1/20/2014	H400171	SP1 at road at 2 ft			224	Insitu
1/20/0044	H400200	SP1 at n wall	<10	< 0.300	<16	Insitu
1/22/2014	11100			114 CONTO 1878 ST 1977		" I SILU
1/22/2014 1/22/2014 1/22/2014	H400200 H400200	SP1 at s wall SP1 at B	<10	< 0.300	<16	Insitu

Appendix VI

LABORATORY ANALYSES

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394



January 10, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/06/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

01/06/2014 Reported: 01/10/2014

Project Name: PLU #409 Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM Sampling Date:

01/06/2014

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: SP 1 @ WALL (H400036-01)

Received:

BTEX 8021B	mg/	′kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	2.01	101	2.00	7.47	Qualifici
Toluene*	<0.050	0.050	01/08/2014	ND	1.98	99.2			
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	2.03	101	2.00	7.63	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	5.92	98.6	2.00	7.88	
Total BTEX	<0.300	0.300	01/08/2014	ND	3.92	90.0	6.00	8.07	
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 89.4-126	5						
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	192	96.1	200	2.58	Qualifici
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6	200		
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND	200	30.0	200	0.609	
Surrogate: 1-Chlorooctane	96.9 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	98.1 %	63.6-154	!						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keena



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

01/06/2014

Reported:

01/10/2014

Project Name:

PLU #409

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/06/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 2 @ WALL (H400036-02)

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	1.92	96.2	2.00	3.51	quanter
Toluene*	<0.050	0.050	01/08/2014	ND	1.90	95.2	2.00		
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	1.94	97.1	2.00	3.40	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	5.73	95.4	6.00	3.44	
Total BTEX	<0.300	0,300	01/08/2014	ND		23,1	0.00	3.07	
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 89.4-120	5						
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	192	96.1	200	2.58	Qualific)
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6	200	0.609	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND		2010	200	0.009	
Surrogate: 1-Chlorooctane	92.0 %	6 65.2-140)						
Surrogate: 1-Chlorooctadecane	93.4 %	63.6-154	!						

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Celeg & Keens



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

01/06/2014

Reported:

01/10/2014

Project Name: Project Number:

PLU #409 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/06/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 3 @ MID (H400036-03)

BTEX 8021B	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	1.92	96.2	2.00	3.51	Qualifie
Toluene*	<0.050	0.050	01/08/2014	ND	1.90	95.2	2.00		
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	1.94	97.1	2.00	3.40	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	5.73	95.4	6.00	3.44	
Total BTEX	<0.300	0,300	01/08/2014	ND	31,70	JJ.4	6.00	3.07	
Surrogate: 4-Bromofluorobenzene (PIC	102 %	6 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	01/08/2014	ND	192	96.1	200	2,58	Qualifie
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6	200	0.609	
EXT DRO >C28-C35	<10.0	10,0	01/08/2014	ND		20.0	200	0.009	
Surrogate: 1-Chlorooctane	92.2 %	6 65.2-140)						
Surrogate: 1-Chlorooctadecane	92.2 %	63.6-154	t						

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Celey D. Keene



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

01/06/2014

Reported:

01/10/2014

Project Name: Project Number:

PLU #409 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/06/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ WALL (H400036-04)

	JUJU U4,	•							
BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	0
Benzene*	<0.050	0.050	01/08/2014	ND	1.92	96.2			Qualifler
Toluene*	< 0.050	0.050	01/08/2014	ND	1.90	95.2	2.00	3.51	
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	1.94		2.00	3.40	
Total Xylenes*	<0.150	0.150	01/08/2014	ND		97.1	2.00	3.44	
Total BTEX	<0.300	0.300	01/08/2014	ND	5.73	95.4	6.00	3.07	
Surrogate: 4-Bromofluorobenzene (PID	103 %	% 89.4-12e	6						
TPH 8015M	mg/			d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Our lift -
GRO C6-C10	<10.0	10.0	01/08/2014	ND	192	96.1	200		Qualifier
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6		2.58	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND	155	30.0	200	0.609	
Surrogate: 1-Chlorooctane	94.4 %	6 65.2-140)						
Surrogate: 1-Chlorooctadecane	93.4 %	63.6-154	ı						

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Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 (505) 887-7473

Fax To:

Received:

01/06/2014

Reported: Project Name: 01/10/2014 PLU #409

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/06/2014

Sampling Type: Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: SP 5 @ WALL (H400036-05)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	1.92	96.2	2.00	3.51	Qualifici
Toluene*	<0.050	0.050	01/08/2014	ND	1.90	95.2	2.00		
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	1.94	97.1		3.40	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	5.73	95.4	2.00	3.44	
Total BTEX	<0.300	0.300	01/08/2014	ND	5.75	95.4	6.00	3.07	
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 89.4-12e	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	01/08/2014	ND	192	96.1	200		Qualifier
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND	255	50.0	200	0.609	
Surrogate: 1-Chlorooctane	96.0 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	96.7 %	63.6-154	ı						

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Celey D. Keena



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

01/06/2014

Reported:

01/10/2014

Project Name: Project Number:

PLU #409 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

01/06/2014 Soil

Cool & Intact

Jodi Henson

Sample ID: SP 6 @ MID (H400036-06)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	DDD	0 10
Benzene*	<0.050	0.050	01/08/2014	ND	1.92	96.2	_	RPD	Qualifier
Toluene*	<0.050	0.050	01/08/2014	ND	1.90	95.2	2.00	3.51	
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	1.94	97.1	2.00	3.40	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	5.73		2.00	3.44	
Total BTEX	<0.300	0.300	01/08/2014	ND	3.73	95.4	6.00	3.07	
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12e	5						
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	0
GRO C6-C10	<10.0	10.0	01/08/2014	ND	192	96.1	•		Qualifier
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND	193	90.0	200	0.609	
Surrogate 1-Chlorooctane	90.3 %	65.2-140)						
Surrogate 1-Chlorooctadecane	90.9 %	63.6-154	!						

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*=Accredited Analyte

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Celey D. Keena



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

Cardinal Laboratories

*=Accredited Analyte

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Clay D. Keena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Doppe	671.18	- 1
Project Manager: 50dy Walters	P.O. #;	ANALTOIS REQUEST
Address:	Company: 50 8C	
City: State:	Zip: Attn: Torry	
Phone #: Fax #:	SS	
Project #: Project Owner:		
Project Name: PCU 400		
Project Location: Eddy, Nm	*	
Sampler Name: Lance Crenshan	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV SAMPLING	X
Lab I.D. Sample I.D.	R: BASE: COOL R:	N 5108
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2 5038 Wall		
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Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Time:

Phone Result: 1 Yes 1 No Add'! Phone #:

Fax Result: 1 Yes 1 No Add'! Fax #:

REMARKS:

Email Yes 1 ts to aruthed iveysis idesicorn

Stualters @loasspet.com

Refinquished By:



January 13, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/07/14 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 through Texas NELAP under certificate number T104704398-13-5. 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 certifi.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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

01/07/2014

Reported:

01/13/2014

Project Name: Project Number:

PLU #409 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/07/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 10 @ WALL N (H400044-01)

Chloride,	SM4500CI-B

Chloride

mg/kg

Analyzed By: AP

Analyte

Result

<16.0

Result

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed

Method Blank

BS

% Recovery True Value QC

RPD 0.00

RPD

Qualifier

01/09/2014 ND 416 104 400

Sample ID: SP 10 @ WALL E (H400044-02)

Chloride,	SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: AP

Reporting Limit

Analyzed

Method Blank

ВŞ

% Recovery

True Value QC

Qualifier

Chloride <16.0 16.0 01/09/2014 ND 416 104 400 0.00

Sample ID: SP 10 @ WALL S (H400044-03)

Chloride,	SM4500CI-B

Chloride

mg/kg

Result

48.0

Analyzed By: AP

Analyzed 01/09/2014 Method Blank ND

BS 416

% Recovery 104

True Value QC 400

RPD Qualifier 0.00

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be flable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such chalm is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celeg & Keine



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

01/07/2014

Reported:

01/13/2014

Project Name: Project Number: PLU #409

Project Location:

NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

01/07/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: SP 10 @ WALL B (H400044-04)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2014	ND	1.92	96.1	2.00		Qualiner
Toluene*	<0.050	0.050	01/10/2014	ND	1.89	94.6	2.00	2.06	
Ethylbenzene*	<0.050	0.050	01/10/2014	ND	1.93	96.4		2.20	
Total Xylenes*	<0.150	0.150	01/10/2014	ND	5.63		2.00	2.32	
Total BTEX	<0.300	0.300	01/10/2014	ND	5.05	93.8	6.00	2.42	
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	0
Chloride	48.0	16.0	01/09/2014	ND	416	104	4		Qualifier
TPH 8015M	mg/l	« g		d By: ms	410	104	400	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Otig
GRO C6-C10	<10.0	10.0	01/08/2014	ND	176	88.0	•		Qualifier
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	178		200	2.61	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND	1/0	89.2	200	1.68	
Surrogate: 1-Chlorooctane	85.2 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	87.3 %	63.6-154	ı						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



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

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

00000		ANALYSIS REQUEST
Project Manager: 5 ONY Walters	P.O.#:	
Address:	Company: 13.000	
City: State:	Zip: Attn: TONY Savoic	
Phone #: Fax #:	Address:	
Project #: Project Owner:	Sity:	
Project Name: PCU 400		
Project Location:	*	
Sampler Name: (an le critics in an)	TO C &	
	1	
	S ER ₹	g g
Lab I.D. Sample I.D.	(G)RAB OR (C) # CONTAINER: GROUNDWATI WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	10 12 131
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impress. Au craims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the annihilable	eemed waived unless made in writing and received by Cardinal within 30 days after comple	form of the contraction

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

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Relinquished By:



January 15, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/08/14 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.

Celeg D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

01/08/2014

Reported:

01/15/2014

Project Name: Project Number: Project Location:

PLU #409 NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

01/08/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: SP 8 @ BOTTOM (H400063-01)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	Qualifier
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00		
Total BTEX	<0.300	0.300	01/14/2014	ND	_	2011	0,00	4.47	
Surrogate: 4-Bromofluorobenzene (PIL	105	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	3.92	Quanter
Sample ID: SP 8 @ S WALL (H4	00063-0	21							
Chloride, SM4500CI-B	mg/	-	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Chloride	.16.0	46.0	044555				•	NI D	Qualifiei
allottue	<16.0	16.0	01/13/2014	ND	416	104	400	3.92	
			01/13/2014	ND	416	104	400	3.92	
Sample ID: SP 8 @ N WALL (H4		3)	01/13/2014 Analyzec		416	104	400	3.92	
Sample ID: SP 8 @ N WALL (H4 Chloride, SM4500CI-B	00063-0	3)			416 BS	104 % Recovery	400 True Value QC	3.92 	Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey & Frence



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

01/08/2014

Reported:

01/15/2014

Project Name:

PLU #409

Project Number: Project Location:

NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

01/08/2014

Sampling Type:

Soil Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 9 @ BOTTOM (H400063-04)

BTEX 8021B	mg	/kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	0 1:6
Benzene*	< 0.050	0.050	01/14/2014	ND	1.97	98.7	·		Qualifier
Toluene*	<0.050	0.050	01/14/2014	ND			2.00	5.22	
Ethylbenzene*	<0.050	0.050	01/14/2014		1.91	95.6	2.00	6.25	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total BTEX	<0.300	0.300	01/14/2014	ND ND	5.73	95.4	6.00	4.47	
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	6						
Chloride, SM4500CI-B	mg,			ed By: AP					
Analyte	Result	Reporting Limit							
Chloride			Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	3.92	
Sample ID: SP 9 @ S WALL (H4	00063-0	5)							
Chloride, SM4500CI-B	mg/		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	3.92	Qualifier
Sample ID: SP 9 @ N WALL (H4									
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey to Frence



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit Relative Percent Difference RPD

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

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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City:	Company: Bopce	
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Project #:		
Project Name: DCU 409	City:	
on:	State: Zip:	
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Lab I.D. Sample I.D.	TAINE IDWA WATE	
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ampler - UPS - Bus - Other:	7	
Servinal Cannot accept verbal changes. Please fax written changes to (575) 393-2326	written changes to (575) 393-2026 ()	



January 23, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/15/14 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

01/15/2014

Reported:

01/23/2014

Project Name: Project Number:

PLU #409 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/15/2014

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Kathy Perez

Sample ID: SP3 @ B (H400135-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result <16.0	Reporting Limit	Analyzed 01/17/2014	Method Blank	BS 416	% Recovery	True Value QC	RPD 3.92	Qualifier

Sample ID: SP3 @ NORTH WALL (H400135-02)

Chloride, SM4500CI-B	mg,	/kg	Апајуге	d By: AP					
Analyte Chloride	Result	Reporting Limit	Analyzed 01/17/2014	Method Blank ND	BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier

Sample ID: SP3 @ SOUTH WALL (H400135-03)

,	SOUTH WALL (11400	122-02)							
Chloride, SM4500CI-B	mg)/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2014	ND	416	104	400	3.92	•

Sample ID: SP4 @ B (H400135-04)

Chloride, SM4500Cl-B	mg	ı/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/17/2014	ND	416	104	400	3.92	Q-1s.

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keine



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 (505) 887-7473

Fax To:

Received:

01/15/2014

Reported:

01/23/2014

Project Name: Project Number:

PLU #409

Project Location:

NONE GIVEN

EDDY COUNTY, NM

<16.0

Sampling Date:

01/15/2014

Sampling Type:

Soil Sampling Condition:

** (See Notes)

Sample Received By:

Kathy Perez

Sample ID: SP4 @ NORTH WALL (H400135-05)

Chloride,	SM4500CI-B
-----------	------------

Chloride

Analyzed By: AP

Analyte

Result

Reporting Limit

16.0

Analyzed

Method Blank ND

BS 416

% Recovery

True Value QC

Qualifier

RPD

3.92

01/17/2014 104 400

Sample ID: SP4 @ SOUTH WALL (H400135-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2014	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 (505) 887-7473

Fax To:

Received:

01/15/2014

Reported:

01/23/2014

Project Name:

PLU #409

Project Number: Project Location:

NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

01/15/2014

Sampling Type:

Sampling Condition:

Soil ** (See Notes)

Sample Received By:

Kathy Perez

Sample ID: SP @ PIPE (H400135-07)

BTEX 8021B	mg/	kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650	Qualinei
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00		
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6,00	0.431	
Total BTEX	<0.300	0.300	01/21/2014	ND	0.01	110	0,00	0.209	
Surrogate: 4-Bromofluorobenzene (PIL	107 %	6 89.4 - 12	6						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2014	ND	416	104	400		Qualifier
TPH 8015M	mg/l	kg		d By: ms	,_0	101	400	3.92	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	0110
GRO C6-C10	<10.0	10.0	01/22/2014	ND	46.7	93.4			Qualifier
DRO >C10-C28	<10.0	10.0	01/22/2014	ND	47.4	94.9	50.0	3.48	
EXT DRO >C28-C35	<10.0	10.0	01/22/2014	ND	1711	94.9	50.0	1.97	
Surrogate: 1-Chlorooctane	87.6 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	88.7 %	63.6-154	t						

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Celeg & Keena



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

01/15/2014

Reported:

01/23/2014

Project Name: Project Number:

PLU #409 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/15/2014

Sampling Type:

Sampling Condition:

Soil ** (See Notes)

Sample Received By:

Kathy Perez

Sample ID: SP1 @ SOUTH WALL (H400135-08)

BTEX 80218	mg,	/kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00		Qualifier
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112		0.650	
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.677	
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	2.00	0.431	
Total BTEX	<0.300	0.300	01/21/2014	ND	0.01	110	6.00	0.209	
Surrogate: 4-Bromofluorobenzene (PIL	108 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	DDD	0 115
Chloride	32.0	16.0	01/17/2014	ND	416	104	•	RPD	Qualifier
TPH 8015M	mg/	kg		d By: ms	410	104	400	3.92	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	Town M.L. and		
GRO C6-C10	<10.0	10.0	01/18/2014	ND		,	True Value QC	RPD	Qualifier
DRO >C10-C28	<10.0	10.0	01/18/2014		46.7	93.4	50.0	3.48	
EXT DRO >C28-C35	<10.0	10.0	01/18/2014	ND ND	47.4	94.9	50.0	1.97	
Surrogate: 1-Chlorooctane	75.7 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	80.1 %	30.2 170							

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PLEASE NOTE: Uability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substdairtes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such Inducingly, was out thinkness to be seen to the seen of the seen of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Kune



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

01/15/2014

Reported:

BTEX 8021B

01/23/2014

Project Name: Project Number:

PLU #409 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/15/2014

Sampling Type:

Sampling Condition:

** (See Notes)

Sample Received By:

Kathy Perez

Sample ID: SP1 @ B (H400135-09)

BTEX 8021B	mg/	/kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Our life
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00		Qualifier
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.650	
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113		0.677	
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	2.00	0.431	
Total BTEX	<0.300	0.300	01/21/2014	ND	0.01	110	6.00	0.209	
Surrogate: 4-Bromofluorobenzene (PIL	108 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifian
Chloride	<16.0	16.0	01/20/2014	ND	416	104	•		Qualifier
TPH 8015M	mg/l	kg		d By: ms	110	104	400	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	- 350
GRO C6-C10	<10.0	10.0	01/18/2014	ND	46.7	93.4	•		Qualifier
DRO >C10-C28	<10.0	10.0	01/18/2014	ND	47.4		50.0	3.48	
EXT DRO >C28-C35	<10.0	10.0	01/18/2014	ND	77.7	94.9	50.0	1.97	
Surrogate: 1-Chlorooctane	77.8 %	65,2-140)						
Surrogate: 1-Chlorooctadecane	82.6 %								

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Celeg E. Keine



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

01/15/2014

Reported:

01/23/2014

Project Name:

PLU #409 NONE GIVEN

Project Number: Project Location:

EDDY COUNTY, NM

Sampling Date:

01/15/2014

Sampling Type:

Sampling Condition:

Soil ** (See Notes)

Sample Received By:

Kathy Perez

Sample ID: SP1 @ B2 (H400135-10)

BTEX 8021B	mg/	kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650	Quanter
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00		
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110		0.431	
Total BTEX	<0.300	0.300	01/21/2014	ND	5,51	110	6.00	0,209	
Surrogate: 4-Bromofluorobenzene (PIL	109 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Our life
Chloride	16.0	16.0	01/20/2014	ND	416	104	-		Qualifier
TPH 8015M	mg/l	cg	Analyze	d By: ms	110	104	400	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	0. 110
GRO C6-C10	<10.0	10.0	01/18/2014	ND	46.7	93.4	-		Qualifier
DRO >C10-C28	<10.0	10.0	01/18/2014	ND	47.4		50.0	3.48	
EXT DRO >C28-C35	<10.0	10.0	01/18/2014	ND	77.7	94.9	50.0	1.97	
Surrogate: 1-Chlorooctane	72.7 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	77.5 %	63,6-154	!						

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Celeg D. Keena



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

Cardinal Laboratories

*≈Accredited Analyte

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Celey & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Namo:					
0010		BILL 70	AMA		,
Sylden Pod / Mayboxs	P.O.#:		7	75000	
Address:	Company:	any: 1560Co			
State:	Zip: Attn:	-			
rnone #: Fax #:	Address:			00	***
Project #: Project Owner:					
Project Name: 100 400					
Project Location:	oute:	Zip:			
Comce	Phone #:	*			
1	Fax#:				
- Some of the	MATRIX	PRESERV. SAMPLING			
Lab I.D. Sample I.D.	SE:))			
17-10185	CONT. ROUN VASTEV OIL LUDGE THER:		X3 W5		4
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10 SAB3	61	175 00 0			
envolves. All dalms including those for negligence and any time clause whether knowly for any define the property of the property of the desired of the service. In no event that Courted be liable for Incidental or consequental damages; including without finishing and received by Cardinal within 30 days after completion of the applicable of supports of the property of the courted of the service. In order that Courted be liable for Incidental or consequental damages; including without finishing the service for whiting and received by Cardinal within 30 days after completion of the applicable.	claim erising whether based in contract or tort, shall be I emed waived unless made in writing and received by Car thout finitiation, business international foce it was	imited to the amount paid by the affent for the dinal within 30 days after completion of the applic	аbв.		
Relinquished By:	Received By:	d you any of the above stated reasons or otherwise. Phone Result:	Yes		
James Ce. h 150	ころがよう	Fax Result:	Yes No Add'l Fax#:	one #:	
	Received By:	O ajutuldi	ediversified esizon		
Delivered By: (Circle One)	Sample Condition Cur		Sturlers Closupeticon	396	
Sampler - UPS - Bus - Other: 3,4°C	-	(nitials)		in the state of th	
+ Cordinal annual	No No	(8	

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



January 17, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/09/14 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.

Celeg D. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received: 01/09/2014 Reported: 01/17/2014

Project Name: PLU #409 Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM Sampling Date:

01/09/2014

Sampling Type: Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: SP 7 @ S WALL (H400083-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte Chloride	Result	Reporting Limit	Analyzed 01/13/2014	Method Blank	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier

Sample ID: SP 7 @ N WALL (H400083-02)

Chloride, SM4500CI-B	mg	-	Analyze	d By: AP					
Analyte Chloride	Result	Reporting Limit	Analyzed 01/13/2014	Method Blank	BS 416	% Recovery	True Value QC	RPD	Qualifier
					140	104	400	0.00	

Sample ID: SP 7 @ BOTTOM (H400083-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/13/2014	ND	416	104	400	0.00	-

Sample ID: SP 6 @ S WALL (H400083-04)

-	(T)							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	0.00	Qualifici

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keena



Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: Reported:

01/09/2014

Project Name:

01/17/2014 PLU #409

Project Number: Project Location:

NONE GIVEN EDDY COUNTY, NM Sampling Date:

01/09/2014

Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

Jodi Henson

Sample ID: SP 6 @ N WALL (H400083-05)

Chloric	le, SM4	500CI-B

mg/kg

<16.0

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Analyzed 01/13/2014

Method Blank ND BS 416

% Recovery

True Value QC

400

RPD Qualifier

Sample ID: SP 6 @ BOTTOM (H400083-06)

Chlorida	SM4500CI-B
Cilibilae,	3M43UUCI-K

mg/kg

Analyzed By: AP

Chloride A

Chloride

Analyte Result Reporting Limit

176 16.0

Analyzed 01/13/2014

Method Blank
ND

BS 400 % Recovery 100

True Value QC 400 RPD **3.9**2

0.00

PD Qualifier

Cardinal Laboratories

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Celeg D. Keena



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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



ANALYSIS REQUES

Page 5 of 5

101 East Marland, Hobbs, NM 85240 (575) 393-2326 FAX (575) 393-2476 *: 「人…の~~

	GROUNDWATER WASTEWATER WILL SOIL SLUDGE OTHER	SSERV SAMPLING COOL OTHER: SAMPLING SAMPLING 1-1-14 1-4-14 1-4-14	GC 72		
SPORNUALL SPORE BOT SPORE SPORE BOT SPORE BOT SPORE SPORE BOT SPORE SPOR	G V V V V V V V V V	1.2.1 1.4-1 1.3.1 1.4-1 1.3.1	2000		
Address: City: Project Manager: Phone #: Project Name: Project Location: Sampler Name: Pro I Lab I.D.	State: Fax #: Project 0 PU 400 Sample I.D. Sample I.D. PARS WAIT PARS Confinish lability and client's exclusive remeally see for registerows shall any other cause whatsomer shall represent the part of the registerows shall represent the part of the registerows shall represent the part of the registerows and any other causes whatsomer shall represent the part of the registerows and any other causes whatsomer shall represent the part of the registerows and any other causes whatsomer shall represent the part of the registerows and any other causes whatsomer shall represent the part of the registerows and any other causes whatsomer shall represent the part of the registerows and any other causes whatsomer shall represent the part of the registerows and any other causes whatsomer shall represent the remedy and the registerows and any other causes whatsomer shall represent the remedy and the registerows and any other causes whatsomer shall represent the remedy and t	State: Zip: Fax #: Project Owner: ON MATRIX Sample I.D. Sample I.D. Sample I.D. OR PROJECT OWNER: OR	State: Zip: Attn: 7077 Fax #: Address: City: State: Zip: Project Owner: City: State: Zip: Project Owner: City: State: Zip: Phone #: Fax #: Fa	State: Zip: Adm: 7077 Fax #: Address: City: State: Zip: Phone #: Fax #: Address: Project Owner: City: State: Zip: Phone #: Fax #: Address: Discovery and a state of the amount pad by the disnet in the state of the another pad by the disnet in the state of the consequents of the substate in the state of the consequents of the substate in the state of the consequents of the state of the consequent of the state of the consequent of the state of the state of the consequent of the state of the state of the consequent of the state	

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Places fox writing changes to learn the changes the changes to learn the changes to learn the changes the cha



January 21, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/10/14 15:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 (505) 887-7473

Fax To:

Received:

01/10/2014

Reported:

01/21/2014

Project Name: Project Number: Project Location:

PLU #409 NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

01/10/2014

Sampling Type:

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Soil

Sample ID: SP 4 @ N WALL (H400093-01)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Result

<16.0

Result

<16.0

Result

<16.0

Reporting Limit 16.0

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Analyzed 01/15/2014

Analyzed

01/15/2014

Method Blank ND

Method Blank

ND

BS 400

% Recovery 100

100

True Value QC 400

400

Qualifier

3.92

RPD

Sample ID: SP 4 @ S WALL (H400093-02)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: AP

BS

400

% Recovery True Value QC

RPD

3.92

7.14

Qualifier

Sample ID: SP 4 @ W WALL (H400093-03)

Chloride, SM4500CI-B

Analyzed By: AP

Reporting Limit

Analyzed

01/17/2014

Method Blank

BS 432 % Recovery 108

True Value QC

400

RPD Qualifier

Sample ID: SP 4 @ BOTTOM (H400093-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result Chloride <16.0

Analyzed 01/17/2014 Method Blank ND

ND

BS 432 % Recovery 108

True Value OC 400

RPD 7.14 Qualifier

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*=Accredited Analyte

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Celey & Keens

Celey D. Keene, Lab Director/Quality Manager



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

01/10/2014

Reported:

01/21/2014

Project Name:

PLU #409

Project Number: Project Location:

NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

01/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 5 @ N WALL (H400093-05) Chlorida CM450001 B

Cilioride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Chloride	128	16.0	01/17/2014	ND	432	108	400	7.14	Qualifie

Sample ID: SP 5 @ S WALL (H400093-06)

		-,							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Chloride	192	16.0	01/17/2014	ND	432	108	400	7.14	Quanter

Sample ID: SP 5 @ BOTTOM (H400093-07)

		·· ,							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2014	ND	432	108	400	7.14	•

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



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

Cardinal Laboratories

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Celey D. Keena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: 100 PCO		
Project Manager: Jody Walters	P.O.#:	ANALYSIS REQUEST
Address:	Company: 12000	
City: State:	Zip: Attn: TOVY	
Phone #: Fax #:	Address	
Project #: Project Owner:		
Project Name: PLUUDO	Chair.	
	orate: Zib:	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Phone #:	
Sampler Name: Cande Changhan	Fax#:	
FOR LAB USE ONLY	MATRIX	
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Lab I.D. Sample I.D.		
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LEASE NOTE: Liability and Damages. Cardinal's hability and client's exclusive remedy for an nalyses. All claims including those for perference and any of	PLEASE NOTE: Liability and Damages. Cardina's liability and client's excitisive renedy for any claim arising whether based in contract or lott, shall be limited to the amount had be the first to the first of the amount had be the first of the first of the first of the amount had be the first of the fi	
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Ву:		
Time:	Jedu	Ann
Delivered By: (Circle One)	Sample Condition CHECKED BV.	J

Sampler - UPS - Bus - Other:

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



January 28, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/22/14 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

01/22/2014

Reported:

01/28/2014

Project Name:

PLU #409

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/22/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: SP 1 @ N WALL (H400200-01)

BTEX 8021B	mg/	kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Our-life
Benzene*	<0.050	0.050	01/24/2014	ND	1.99	99.5	2.00		Qualifler
Toluene*	<0.050	0.050	01/24/2014	ND	1.95	97.7		4.14	
Ethylbenzene*	<0.050	0.050	01/24/2014	ND	1.94	96.8	2.00	4.54	
Total Xylenes*	<0.150	0.150	01/24/2014	ND	5.66	94.3	2.00	4.05	
Total BTEX	<0.300	0.300	01/24/2014	ND	3.00	נודע	6.00	4.10	
Surrogate: 4-Bromofluorobenzene (PID	109 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/l	c g	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/24/2014	ND	416	104	400		Qualifier
TPH 8015M	mg/k	(g	Analyze	d By: ms			700	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	o tra
GRO C6-C10	<10.0	10.0	01/24/2014	ND	207	104	200		Qualifier
DRO >C10-C28	<10.0	10.0	01/24/2014	ND	204	102		3.73	
EXT DRO >C28-C35	<10.0	10.0	01/24/2014	ND	20-7	102	200	2.46	
Surrogate: 1-Chlorooctane	78.1 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	85.6 %	63.6-154	!						

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Celey D. Keine



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

01/22/2014

Reported:

01/28/2014

Project Name: Project Number:

PLU #409 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/22/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ S WALL (H400200-02)

BTEX 8021B	mg/	/kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2014	ND	2.38	119	2.00		Qualifier
Toluene*	<0.050	0.050	01/27/2014	ND	2.34	117	2.00	2.71	
Ethylbenzene*	<0.050	0.050	01/27/2014	ND	2.34	117		2,39	
Total Xylenes*	< 0.150	0.150	01/27/2014	ND	6.73	112	2.00	2.31	
Total BTEX	<0.300	0.300	01/27/2014	ND	0.73	112	6.00	2.76	
Surrogate: 4-Bromofluorobenzene (PIL	109 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Outlifie
Chloride	<16.0	16.0	01/24/2014	ND	416	104	·		Qualifier
TPH 8015M	mg/l	kg		d By: ms	110	104	400	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OG		
GRO C6-C10	<10.0	10.0	01/24/2014	ND	207	•	True Value QC	RPD	Qualifier
DRO >C10-C28	<10.0	10.0	01/24/2014	ND		104	200	3.73	
EXT DRO >C28-C35	<10.0	10.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	81.7 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	84.9 %								

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Celeg D. Keene



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

BTEX 8021B

01/22/2014

Reported:

01/28/2014

Project Name: Project Number:

PLU #409 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/22/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ B (H400200-03)

BTEX 8021B	mg,	/kg	Analyzo	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	DDD	Overline in
Benzene*	<0.050	0.050	01/27/2014	ND	2.38	119	-	RPD	Qualifier
Toluene*	<0.050	0.050	01/27/2014	ND	2.34	117	2.00	2.71	
Ethylbenzene*	<0.050	0.050	01/27/2014	ND	2,34	117	2.00	2.39	
Total Xylenes*	<0.150	0.150	01/27/2014	ND	6,73		2.00	2.31	
Total BTEX	<0.300	0.300	01/27/2014	ND	0.73	112	6.00	2.76	
Surrogate: 4-Bromofluorobenzene (PIC	109 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Chloride	<16.0	16.0	01/24/2014	ND	416	104	400		Qualiner
TPH 8015M	mg/	kg		d By: ms	110	104	400	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	Truca Value og		
GRO C6-C10	<10.0	10.0	01/24/2014	ND	207	·	True Value QC	RPD	Qualifier
DRO >C10-C28	<10.0	10.0	01/24/2014	ND		104	200	3.73	
EXT DRO >C28-C35	<10.0	10.0	01/24/2014	ND	204	102	200	2.46	
Surrogate: 1-Chlorooctane	83.9 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	94.7%								

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keine



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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Project Manager:	Jody Walters		P.O. #:			ANALYSIS REQUEST	QUEST	AT A STATE OF A PARTY.
Address:								
city:	State:	Zip:	Attn: Fazz	t				
Phone #:	Fax #:		SS				- 2	
Project #:	Project Owner:	ň	City:			i i		1
Project Name: 0	PCU HOA		•			2		
Project Location:			Phone #	ti i			1);	_
Sampler Name:			Prione #:					
FOR LAB USE ONLY		MATRIX	7					
19	**	S ER	SAMPLING		B	Ð		
Lab I.D.	Sample I.D.		HER: D/BASE: / COOL HER:	7510 W510	J)			(
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cease Note: Labley and Dem rayses. All claims including those to no event shall cardinal	LASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in contract or bit, shall be limited to the amount paid by the client for the nations. All claims including those for negligence and any other cause whatsoever shall be deemed wolved unless made in writing and received by Cardinal within 30 days after completion of the applicable.	y claim arising whether based in contract or semed walved unless made in writing and n	tort, shall be limited to the amount paid by series by Cardinal within 30 days after or	y the client for the				
Illiates or successors arising out of or related to the performance Relinquished By:	Illates or successors arising out of or related to the performance of services heminder by Capiful in legardies or whether such chaim is based upon any of the above stated reasons or otherwise. Collinguished By: Date: 77 17 17 18 Reposition Recommender by Capiful Recommender Recommender by Capiful Recommender Recommender by Capiful Recommender Recommender by Capiful Recommender Recommender Recommender by Capiful Recommender Recommend	refunding measure, premess memphons, loss of see, or loss of profits incurred by client, its subsidiary stribut regardless of whether such claim is based upon any of the above stated reasons or otherwise. Refunding Rev	is of use, or loss of profits incurred by clien based upon any of the above stated reason					
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Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

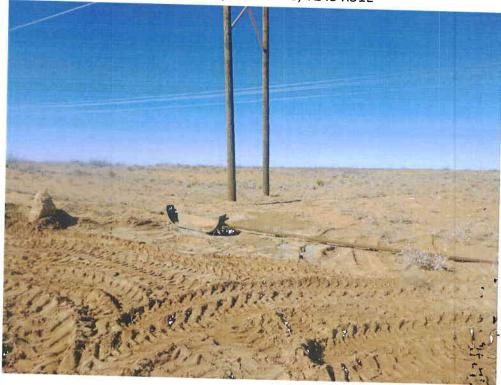
Appendix VII

PHOTO PAGES

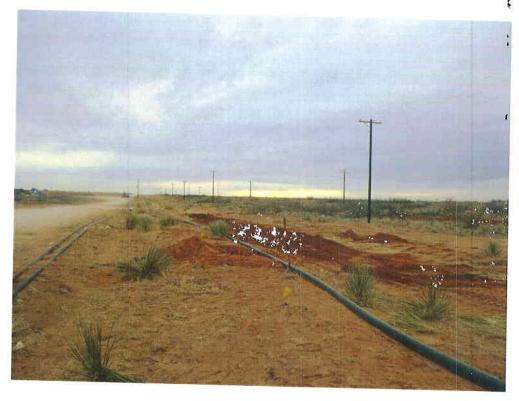
Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

BOPCO Poker Lake Unit #409H

Unit Letter B, Section 28, T24S R31E



Site of leak 12/30/13



Sample points in pasture area east of lease road 12/30/13



Excavation of impacted area north leg of the flowline $1/14/14 \label{eq:flowline}$



Backfilling lease road 1/28/14



Excavation of impacted lease road 12/30/13



Excavation of impacted pasture area 1/8/14



Completion of lease road 1/28/14



Completion of impacted pasture area 1/28/14