APPROVED

By Olivia Yu at 7:53 am, Oct 24, 2018



October 16, 2018

Mr. Dean Ericson ETC Field Services LLC 600 N. Marienfeld Suite 700 Midland, Texas 79701 NMOCD grants deferral for identified area for 1RP-4583. See email correspondence for approval with conditions regarding remedial activities.

Reference No. 11135250-1

Dear Mr. Ericson:

Re: Updated Remediation Summary Report

2C-14-3 Ten Inch (1 RP-4583) ETC Field Services LLC

Site Location: Sec. 24, T 25-S, R 37-E (Lat 32.11776N°, Long -103.11039W°)

Lea County, New Mexico

GHD Services, Inc. (GHD) is pleased to present this report for the above referenced site. The 2C-14-3 Ten Inch (hereafter referred to as the "Site") is located within Section 35, Township 21 South, Range 37 East, in Lea County, New Mexico (see Figure 1). The property is privately owned.

On January 18, 2017, a release of approximately 39 barrels (bbls) of natural gas/oil was reported to the State of New Mexico Oil Conservation Division (NMOCD) via Form C-141. A leaking 10-inch pipe was the cause of the release. Approximately 35 bbls were recovered utilizing a vacuum truck. Contaminated soils were excavated and stockpiled on site (see Figure 2). NMOCD release number 1RP 4583 was assigned.

GHD submitted a Remediation Summary Report dated October 12, 2017 to NMOCD that described assessment activities performed at the Site. The following summary and recommendations were made in the report.

Chloride impacted soils above the RRAL at the Site were encountered at a depth of 4 ft. bgs in FS-7 and at a depth of 4.5 ft. bgs within the excavation (Sample Nos. 6, 9, 15, 21, and 24). Chloride impacted soils exceeding the RRAL were also encountered on the surface in four areas (Sample Nos. 44, 46, 47, and 50). Based on the assessment of the chloride concentrations, GHD recommended the following:

- Excavating the remaining petroleum hydrocarbon contaminated soil within the excavation. Scrape the
 areas where contamination was found at the surface and excavate the area around FS-7 to a depth of
 4 ft. bgs.
- Placement of a 20-mil polyethylene liner in the bottom of the excavation at a depth of 4 ft. bgs.
- Backfilling of the excavation with clean fill material and wheel compacting to grade, once approval of delineation has been confirmed.
- Fertilizing and reseeding of the disturbed area with a seed mix that is approved by the land owner.





In an email dated December 22, 2017 Ms. Olivia Yu with NMOCD indicated that the delineation was complete and authorized the proposed remediation.

1. Recommended Remediation Action Limits

Based on information available from the United States Geologic Survey National Water Information System, the depth to groundwater at the Site is approximately 70 ft. below ground surface (bgs). This is based on a water well that is located approximately 0.5 mile northwest of the Site (see Appendix A, Water Well Report for depth to water). Additionally, there are no well head protection areas or surface water bodies within 1000 feet of the Site (see Figure 1). Therefore, the preliminary total ranking score is 10 (see table below).

Based on this score, the applicable NMOCD Site specific Recommended Remediation Action Limits (RRALs) are 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total benzene, toluene, ethylbenzene, and xylenes (BTEX), 1,000 mg/kg for total petroleum hydrocarbons (TPH), and 600 mg/kg for chlorides.

New Mexico Oil Conservation Division Site Assessment	
Ranking Criteria	Score
Depth to Ground Water (50-99 ft. bgs)	10
Wellhead Protection Area (> 1000 ft. from water source, > 200 ft. from domestic source)	0
Distance to Surface Body Water (>1000 ft.)	0
Ranking Criteria Total Score	10*
*Because the ranking criteria total score is 20, NMOCD established RRALs are 10 mg/kg 50 mg/kg for total BTEX, 1,000 mg/kg for total TPH and 600 ppm for chlorides ¹ 1. NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993 and recent discussions with Mr. Jim Griswold with the NMC	·

2. Remediation Activities

Excavation of impacted soils was performed from February 13, 2018 through February 15, 2018 (see Figure 2 for excavation limits). Soil samples were collected from the sidewalls and base of the excavation and submitted to Hall Environmental Analysis Laboratory (HEAL) located in Albuquerque, New Mexico. Soils in the areas of surface samples 44, 46, 47, 50, and 53 were excavated to an approximate depth of 1.5 to 6 feet bgs and samples were collected for laboratory analysis. The samples were analyzed for TPH analysis by EPA Method 8015 and for chloride analysis by EPA Method 300.

Total TPH ranged from below the laboratory reporting limits (LRL) to 288 mg/kg and chloride concentrations ranged from 120 mg/kg to 2,000 mg/kg. Three samples exceeding the chloride RRAL were collected from the west side of the excavation near the north end seen on Figure 2 (around SP-3, TP-28, and TP-29). The excavation could not be extended farther west in this area due to the presence of a

11135250Ericson-3



Chevron flow line. A summary of laboratory analytical results is provided as Table 1 and complete analytical reports are included as Appendix B.

3. Recommendations

The assessment of the horizontal and vertical extent of impacted soils has been performed. In addition, the excavation of impacted soils has been completed. GHD recommends the following activities.

- Deferral of the area around SP-3, TP-28, and TP-29
- Placement of a 20-mil polyethylene liner in the bottom of the excavation at a depth of 4 ft. bgs.
- Backfilling of the excavation with clean fill material and wheel compacting to grade, once approval of delineation has been confirmed.
- Fertilizing and reseeding of the disturbed area with a seed mix that is approved by the land owner.

Following completion of the above activities a request for no further action will be made for the Site. Should you have any questions, or require additional information regarding this submittal, please feel free to contact us at 505-884-0672.

Sincerely,

GHD

Alan Brandon
Senior Project Manager

AIC Brand

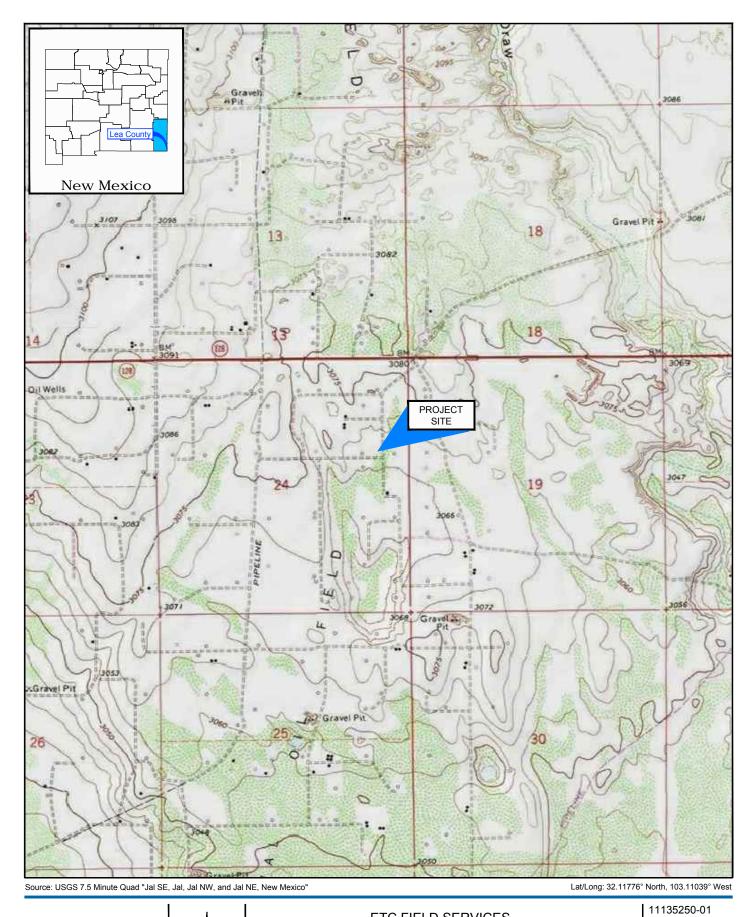
AB/ji/3

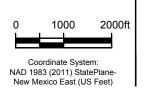
Encl.

Christine Mathews
Project Manager

11135250Ericson-3

Figures







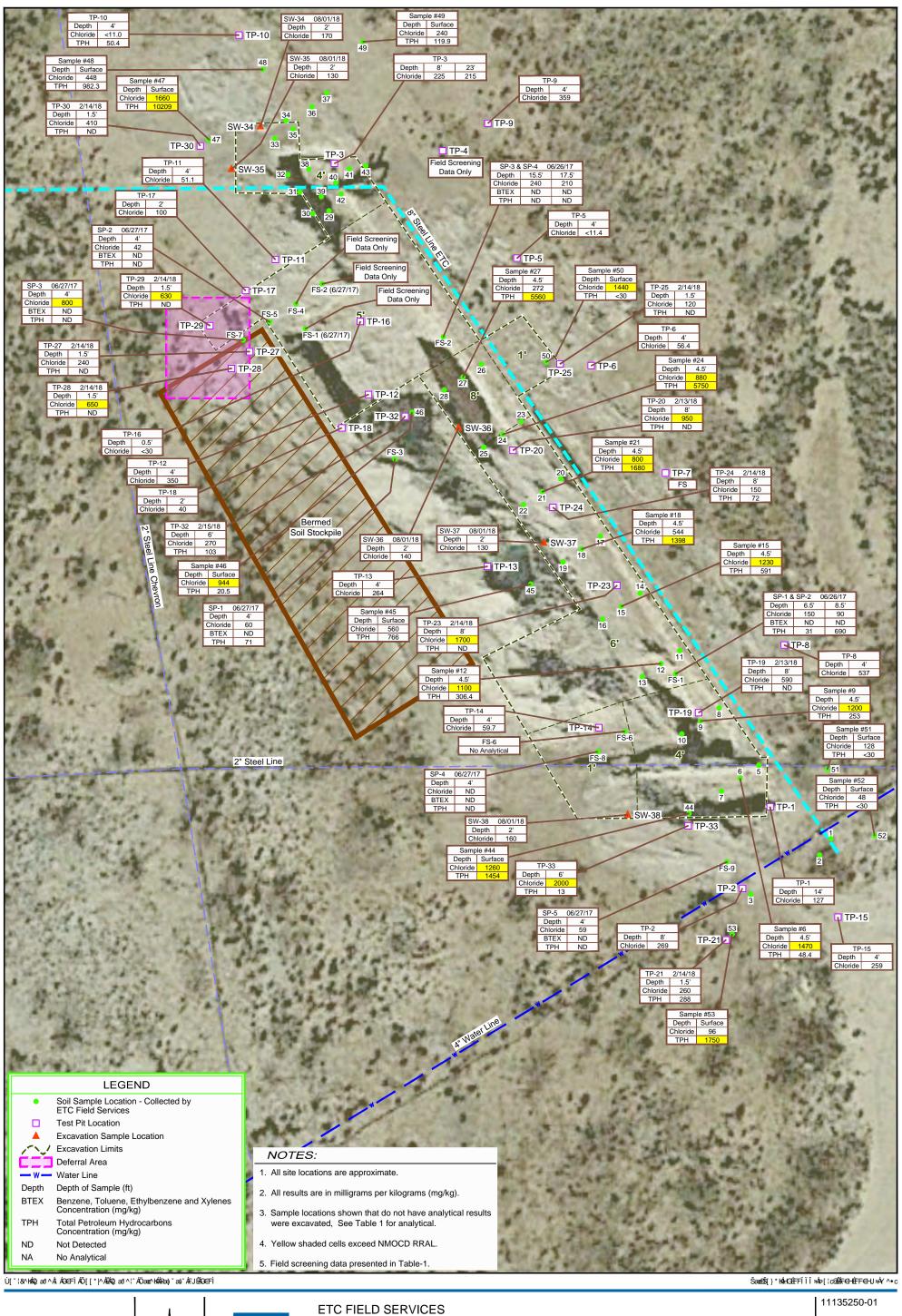


ETC FIELD SERVICES LEA COUNTY, NEW MEXICO 2C-14-3 10"

Apr 5, 2017

SITE LOCATION MAP

FIGURE 1









LEA COUNTY, NEW MEXICO 2C-14-3 10" Oct 22, 2018

Tables

Table 1

ETC Field Services LLC - 2C-14-3 10° Block Valve Section 24, Township 25 South, Range 37 East Lea County, New Mexico Soil Analytical Results Summary

Sample ID	Date	Sample Depth	Chlorides	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	ТРН	ТРН	ТРН	Total TPH	Field Screen - Chloride	Field Screen - Hydrocarbons
		(ft.)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10- C28)	Ext DRO (28- C36)	GRO/DRO	(mg/kg)	(ppm)
									(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
NMOCD Ren	nediation Action Levels		600	10	NE	NE	NE	50	NE	NE		1,000	-	
						XCAVATION SAM								
*Sample #1	2/3/2017	1.5	784	<0.5	5.29	8.97	41.5	55.76	884	4,360	1,090	6,334.0	-	-
*Sample #2	2/3/2017	1.5	848	<0.05	< 0.05	0.323	1.28	1.603	69.2	7,060	2,140	9,269.2		
*Sample #3	2/3/2017	3.0	1,630	<0.5	5.25	5.49	20	30.74	909	2,130	526	3,565.0	-	
*Sample #4	2/3/2017	1.5	5,330	<0.5	1.02	6.27	23	30.29	746	4,730	1,390	6,866.0	-	-
*Sample #5	2/3/2017	1.5	1,760	<0.05	<0.05	<0.05	<0.15	<0.30	<10.0	<10.0	<10.0	<30.0		
*Sample #6	2/3/2017	4.5	1,470	<0.05	<0.05 <0.05	<0.05	<0.15	<0.30	<10.0	32.2	16.2 474	48.4		-
*Sample #7	2/3/2017 2/3/2017	1.5 1.5	1,060 2,280	<0.05 <0.05		<0.05	0.22	0.22 <0.30	<50.0 <10.0	1,180 <10.0	<10.0	1,654 <30.0		-
*Sample #8		4.5			<0.05	<0.05	<0.15						-	
*Sample #9 *Sample #10	2/3/2017 2/3/2017	1.5	1,200 992	<0.05 <0.05	<0.05 0.38	<0.05 0.204	0.312 0.593	0.312 1.177	<10.0 19.8	183 413	70.4 <10.0	253 432.8	-	
*Sample #10	2/3/2017	1.5	4,160	<0.05	< 0.05	<0.05	<0.15	<0.30	<10.0	26	<10.0	432.8	-	
*Sample #11	2/3/2017	4.5	1,100	<0.05	0.151	0.228	1.15	1.529	22.4	284	<10.0	306.4	-	
*Sample #13	2/3/2017	1.5	1,390	0.921	7.12	1.75	6.25	16.041	213	811	<50.0	1024	-	
*Sample #14	2/3/2017	1.5	1,490	<0.05	<0.05	<0.05	<0.15	<0.30	<50.0	77.6	<50.0	77.6	-	
*Sample #15	2/3/2017	4.5	1,230	<0.05	< 0.05	0.082	0.604	0.686	<50.0	591	<50.0	591		-
*Sample #16	2/3/2017	1.5	1,620	< 0.05	< 0.05	0.091	0.444	0.535	<50.0	1,630	<50.0	1,630.0	-	
*Sample #17	2/3/2017	1.5	5,360	< 0.05	< 0.05	<0.05	<0.15	< 0.30	<10.0	<10.0	<10.0	<30.0	-	
*Sample #18	2/3/2017	4.5	544	<0.1	0.188	<0.1	5.52	5.708	208	1,190	<10.0	1.398.0		
*Sample #19	2/3/2017	1.5	1,340	< 0.05	< 0.05	< 0.05	0.291	0.291	12.3	1,080	<10.0	1,092.3		
*Sample #20	2/3/2017	1.5	560.0	< 0.05	< 0.05	< 0.05	0.841	0.841	60.1	1720	<50.0	1,780,1	-	-
*Sample #21	2/3/2017	4.5	800	< 0.05	0.225	< 0.05	2.39	2.615	110	1,570	<10.0	1,680.0		
*Sample #22	2/3/2017	1.5	832	< 0.05	< 0.05	< 0.05	<0.15	< 0.30	<10.0	746	<10.0	746.0	-	
*Sample #23	2/3/2017	1.5	976	<0.1	<0.1	<0.1	0.923	0.923	161	2,600	<10.0	2,761.0		
*Sample #24	2/3/2017	4.5	880	<1.0	1.92	<1.0	57.8	59.72	1670	4,080	<10.0	5,750.0		
*Sample #25	2/3/2017	1.5	832	0.088	3.4	3.45	11.9	18.838	91.2	1,220	<10.0	1,311.2		
*Sample #26	2/3/2017	1.5	128	<0.20	4.76	5.46	33.2	43.42	483	1,930	<10.0	2,413.0	-	
*Sample #27	2/3/2017	4.5	272	<1.0	12.6	22.1	97.1	131.8	1760	3,800	<10.0	5,560.0	-	
*Sample #28	2/3/2017	1.5	4,560	<0.05	< 0.05	< 0.05	<0.15	< 0.30	<10.0	13.7	<10.0	13.7	-	
*Sample #29	2/3/2017	4.5	6,320	<0.05	< 0.05	< 0.05	<0.15	< 0.30	<10.0	<10.0	<10.0	<30.0	-	
*Sample #30	2/3/2017	4.5	4,160	<0.05	< 0.05	< 0.05	<0.15	< 0.30	<10.0	<10.0	<10.0	<30.0		
*Sample #31	2/3/2017	4.5	2,360	13.5	170	135	381	699.5	10,400	21,100	5,460	36,960	-	
*Sample #32	2/3/2017	4.5	288	< 0.05	< 0.05	<0.05	<0.15	<0.30	<10.0	<10.0	<10.0	<30.0		-
*Sample #33	2/3/2017	6.0	816	<2.0	18.2	47.5	167	232.7	3,340	4,030	1,680	9,050		-
*Sample #34	2/3/2017 2/3/2017	4.5 6.0	304 6,960	<0.05 19.8	<0.05 215	<0.05 88.7	<0.15 385	<0.30 708.5	<10.0 8,360	45.2 6,960	26.1 1,960	71.3 17,280		
*Sample #35 *Sample #36	2/3/2017	6.0	4.080	2.77	48	38	173	261.77	3,530	6,820	1,960	12.300	-	-
*Sample #37	2/3/2017	4.5	5.040	17.1	220	128	423	788.1	10.600	18.600	5.230	34.430		
*Sample #38	2/3/2017	6.0	6,560	10.4	177	71.6	289	548	5,740	4,230	893	10,863	-	
*Sample #39	2/3/2017	6.0	3,440	<1.0	11.1	16.2	70.1	97.4	1,460	4,570	1,350	7,380	-	
*Sample #40	2/3/2017	6.0	5,440	<2.0	5.74	14.9	95	115.64	2,220	4,330	1,670	8.220	-	
*Sample #41	2/3/2017	6.0	1,760	<1.0	1.42	5.21	36.9	43.53	1,000	3,670	1,530	6,200	-	
*Sample #42	2/3/2017	6.0	3,160	<1.0	5.58	30.1	123	158.68	1,730	5,500	1,910	9,140	-	-
*Sample #43	2/3/2017	4.5	4,400	<0.05	< 0.05	<0.05	<0.15	<0.30	<10.0	21.8	14.3	36.1	-	
*Sample #44	2/3/2017	Surface	1,260	< 0.05	0.364	0.122	0.517	1.003	<50.0	1,100	354	1,454	-	
*Sample #45	2/3/2017	Surface	560	<0.05	0.131	<0.05	<0.15	<0.30	<10.0	478	288	766	-	-
*Sample #46	2/3/2017	Surface	944	< 0.05	< 0.05	< 0.05	<0.15	< 0.30	<10.0	10.3	10.2	20.5	•	
*Sample #47	2/3/2017	Surface	1,660	<0.5	<0.5	<0.5	14.1	14.1	659	7,090	2,460	10,209	-	
*Sample #48	2/3/2017	Surface	448	< 0.05	< 0.05	< 0.05	0.194	< 0.30	11.3	720	251	982.3	•	
*Sample #49	2/3/2017	Surface	240	< 0.05	< 0.05	< 0.05	<0.15	< 0.30	<10.0	77.9	42.0	119.9	-	
*Sample #50	2/3/2017	Surface	1,440	< 0.05	0.05	< 0.05	<0.15	< 0.30	<10.0	<10.0	<10.0	<30.0	-	
*Sample #51	2/3/2017	Surface	128	< 0.05	< 0.05	< 0.05	<0.15	< 0.30	<10.0	<10.0	<10.0	<30.0	-	
*Sample #52	2/3/2017	Surface	48	< 0.05	< 0.05	< 0.05	<0.15	< 0.30	<10.0	<10.0	<10.0	<30.0	-	
*Sample #53	2/3/2017	Surface	96	< 0.05	0.287	< 0.05	6.27	6.557	123	1,180	447	1,750		

Table 1

ETC Field Services LLC - 2C-14-3 10° Block Valve Section 24, Township 25 South, Range 37 East Lea County, New Mexico Soil Analytical Results Summary

Sample ID	Date	Sample Depth	Chlorides	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	ТРН	ТРН	ТРН	Total TPH	Field Screen - Chloride	Field Screen - Hydrocarbons
		(ft.)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-	Ext DRO (28-	GRO/DRO	(mg/kg)	(ppm)
									(mg/kg)	C28) (mg/kg)	C36) (mg/kg)	(mg/kg)		+
NMOCD Remedia	tion Action Levels		600	10	NE	NE	NE	50	NE	NE		1,000		-
TP-1	3/28/2017	8.0											396	
TP-1	3/28/2017	10.0											196	
TP-1	3/28/2017	12.0											360	
S-1113520-1-032817-TP-1-14'	3/28/2017	14.0	127	NA 0.050	NA 0.050	NA 0.050	NA 0.450	NA	NA 40	NA NA	NA 10	NA 00	<116	
S-1113520-1-032817-TP-2-8' S-1113520-1-032817-TP-3-8'	3/28/2017 3/28/2017	8.0 8.0	269 225	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	<10 <10	<10 <10	<10 <10	<30 <30	197 852	6
TP-3	3/29/2017	14.0	223	₹0.050	<0.030	₹0.030	<0.150	₹0.300	<10	<10	<10	<30	432	142
TP-3	3/29/2017	16.0											840	50
TP-3	3/29/2017	18.0											432	-
TP-3	3/29/2017	20.0											616	-
S-1113520-1-032917-TP-3-23'	3/29/2017	23.0	215	NA	NA	NA	NA	NA	NA	NA	NA	NA	108	
TP-4 S-1113520-1-032817-TP-5-4'	3/28/2017 3/28/2017	4.0	<11.4	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	568 <108	20
S-1113520-1-032817-TP-5-4' S-1113520-1-032817-TP-6-4'	3/28/2017	4.0	<11.4 56.4	<0.050	<0.050	<0.050 <0.050	<0.150	<0.300	<10 <10	<10 <10	<10 <10	<30 <30	<108 248	9 345
TP-7	3/28/2017	4.0	30.4	<0.000	<0.000	<0.030	<0.150	C0.300	×10	<10	×10	\30	284	582
S-1113520-1-032817-TP-8-4'	3/28/2017	4.0	537	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10	<10	<10	<30	136	51
S-1113520-1-032817-TP-9-4'	3/28/2017	4.0	359	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10	<10	<10	<30	188	448
S-1113520-1-032917-TP-10-4'	3/29/2017	4.0	<11.0	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10	40.4	10	50.4	<108	45
S-1113520-1-032917-TP-11-4'	3/29/2017	4.0	51.1	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10	<10	<10	<30	188	42
S-1113520-1-032917-TP-12-4'	3/29/2017	4.0	350	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10	<10	<10	<30	136	2
S-1113520-1-032917-TP-13-4'	3/29/2017	4.0	264	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	136	10
S-1113520-1-032917-TP-14-4' S-1113520-1-032917-TP-15-4'	3/29/2017 3/29/2017	4.0 4.0	59.7 259	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	<10 <10	<10 <10	<10 <10	<30 <30	<108 160	32 5
S-11135250-062617-IP-15-4 S-11135250-062617-SP-01 (FS-1)	6/26/2017	6.5	150	<0.050	<0.050	<0.050	<0.150	<0.300	<10 <4.8	<10 31	<10 <48.0	<30 31.0	100	
S-11135250-062617-SI -01 (FS-1)	6/26/2017	8.5	90	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	340	350	690	100	-
FS-2	6/26/2017	5.5		10.02	40.010	10.010	40.001	10.2.10	11.0	0.0	000	000	1764	-
FS-2	6/26/2017	7.5											1216	
FS-2	6/26/2017	9.5											460	
FS-2	6/26/2017	11.5											1120	
FS-2	6/26/2017	13.5											240	
S-11135250-062617-SP-03 (FS-2) S-11135250-062617-SP-04 (FS-2)	6/26/2017 6/26/2017	15.5 17.5	240 210	<0.023 <0.024	<0.047 <0.049	<0.047 <0.049	<0.093 <0.097	<0.210	<4.7 <4.9	<9.9 <9.8	<49.0 <49.0	<63.6 <63.7	136 136	
FS-1	6/27/2017	4.0	210	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.8	<49.0	<63.7	272	
FS-2	6/27/2017	4.0											968	
S-11135250-062717-SP-01 (FS-3)	6/27/2017	4.0	60	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	23.0	48.0	71.0	<100	
FS-4	6/27/2017	4.0									10.0		460	-
S-11135250-062717-SP-02 (FS-5)	6/27/2017	4.0	42	< 0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.6	<48.0	<62.5	240	
FS-6	6/27/2017	4.0											340	-
S-11135250-062717-SP-03 (FS-7)	6/27/2017	4.0	800	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.4	<47.0	<61.2	504	
S-11135250-062717-SP-04 (FS-8) S-11135250-062717-SP-05 (FS-9)	6/27/2017 6/27/2017	4.0 4.0	<30.0	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.8	<49.0	<63.7	<100 <100	
S-11135250-062717-SP-05 (FS-9) S-11135250-01-090717-MG-TP-16-6"	6/27/2017 9/7/2017	4.0 0.5	59 <30	<0.024 NA	<0.049 NA	<0.049 NA	<0.097 NA	<0.219 NA	<4.9 NA	<9.8 NA	<49.0 NA	<63.7 NA	<100 <100	21
S-11135250-01-090717-MG-TP-10-0	9/7/2017	2.0	100	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<100	93
TP-17	9/7/2016	4.0	100	11/2	140	14/7	14/1	11/2	13/3	13/2	11/0	110	208	78
S-11135250-01-090717-MG-TP-18-2	9/7/2017	2.0	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	89
TP-18	9/7/2017	4.0											<100	96
S1135250-01-021318-JP-TP-19-8	2/13/2018	8.0	590	NA	NA	NA	NA	NA	<4.6	<10	<51	<65.6	-	-
S1135250-01-021318-JP-TP-20-8	2/13/2018	8.0	950	NA NA	NA	NA	NA	NA	<4.7	<9.8	<49	<63.5		-
S1135250-01-021418-MG-TP-21 S1135250-01-021418-MG-TP-23	2/14/2018 2/14/2018	1.5 8.0	260 1,700	NA NA	NA NA	NA NA	NA NA	NA NA	<4.8 <5.0	98 <10	190 <50	288 <65.0		
S1135250-01-021418-MG-TP-23 S1135250-01-021418-MG-TP-24	2/14/2018	8.0	1,700	NA NA	NA NA	NA NA	NA NA	NA NA	<5.0 <5.0	18	<50 54	<65.0 72		
S1135250-01-021418-MG-TP-25	2/14/2018	1.5	120	NA NA	NA NA	NA NA	NA NA	NA NA	<4.8	<9.9	<50	<64.7	-	-
S1135250-01-021418-MG-TP-27	2/14/2018	1.5	240	NA NA	NA	NA NA	NA NA	NA	<4.6	<9.9	<49	<63.5		
S1135250-01-021418-MG-TP-28	2/14/2018	1.5	650	NA	NA	NA	NA	NA	<4.9	<9.7	<48	<62.6	-	
S1135250-01-021418-MG-TP-29	2/14/2018	1.5	630	NA	NA	NA	NA	NA	<4.8	<9.7	<48	<62.5	-	
S1135250-01-021418-MG-TP-30	2/14/2018	1.5	410	NA	NA	NA	NA	NA	<4.8	<10	<50	<64.8	-	
S1135250-01-021518-MG-TP-32	2/15/2018	6.0	270	NA	NA	NA	NA	NA	<4.9	34	69	103	-	
S-11135250-1-42518-BB-TP-33	4/25/2018	6.0	2,000	NA	NA	NA	NA	NA	<4.9	13	<51	13		

Table 1

ETC Field Services LLC - 2C-14-3 10" Block Valve Section 24, Township 25 South, Range 37 East Lea County, New Mexico Soil Analytical Results Summary

Sample ID	Date	Sample Depth	Chlorides	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	ТРН	ТРН	ТРН	Total TPH	Field Screen - Chloride	Field Screen - Hydrocarbons
		(ft.)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10- C28)	Ext DRO (28- C36)	GRO/DRO	(mg/kg)	(ppm)
									(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
NMOCD Remediation Action Levels			600	10	NE	NE	NE	50	NE	NE		1,000		-
S-11135250-01-080318-MG-SW-34-2	8/3/2018	2.0	170	NA	NA	NA	NA	NA	NA	NA	NA	NA		
S-11135250-01-080318-MG-SW-35-2	8/3/2018	2.0	130	NA	NA	NA	NA	NA	NA	NA	NA	NA		
S-11135250-01-080318-MG-SW-36-2	8/3/2018	2.0	140	NA	NA	NA	NA	NA	NA	NA	NA	NA		
S-11135250-01-080318-MG-SW-37-2	8/3/2018	2.0	130	NA	NA	NA	NA	NA	NA	NA	NA	NA		
S-11135250-01-080318-MG-SW-38-2	8/3/2018	2.0	160	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Note: Concentrations that are bold exceed the NMOCD Remediation Action Level
* Samples taken by ETC Field Services
NE = Not Established

NE = Not Established
mg/Kg = milligrams per Kilogram
ppm = parts per million
Chloride field screening performed with a Hach field test kit
Hydrocarbons field screening performed with a Petroflag analyzer.
NA-Not Analyzed
Field screening only
-- = Field screening not performed

Appendices GHD | Updated Remediation Summary Report | 11135250 (3)

Appendix A Water Well Report



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

(A CLW##### in the POD suffix Indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub- basin	County	U.75	Q	177		Tws	Rng	x	Y	DistanceDe	pthWellDep	thWater (Water Column
CP 00260 POD1		CP	LE	2	2	4	24	258	37E	678390	3554728*	366	135	68	67
CP 00261 POD1	R	CP	LE	2	2	4	24	258	37E	678390	3554728*	366		68	
CP 00258 POD1		CP	LE	3	3	4	13	25S	37E	677767	3555728*	815	120	73	47
CP 00363 POD1		CP	LE	3	4	1	24	258	37E	677379	3554917*	865		901	
CP 00783 POD1		CP	LE	1	2	1	24	258	37E	677372	3555519*	976	4500	728	3772
CP 00261 POD2		CP	LE	1	3	4	13	258	37E	677767	3555928*	985	95	50	45

Average Depth to Water:

314 feet

Minimum Depth:

50 feet

Maximum Depth:

901 feet

Record Count:6

UTMNAD83 Radius Search (in meters):

Easting (X): 678233 Northing (Y): 3555059.23 Radius: 1000

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

9/27/17 9:34 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

^{*}UTM location was derived from PLSS - see Help

2C-14-3 Page 1 of 2



National Water Information System: Web Interface

USGS Water Resources

USGS Home Contact USGS Search USGS

Data Category:	Geographic Area:	
Groundwater 🗸	United States 🗸	GO

Click to hideNews Bulletins

Please see news on new formats

• Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 320714103065701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320714103065701 25S.37E.13.43113

Lea County, New Mexico

Latitude 32°07'14", Longitude 103°06'57" NAD27

Land-surface elevation 3,077 feet above NAVD88

The depth of the well is 120 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formate

	Output formats	
Table of data		
<u>Tab-separated data</u>		
Graph of data		
Reselect period		

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurema
1965-10-19		D	73.23			2		U		The state of the s
1966-06-02		D	72.77			2		U		
1968-02-19		D	71.55			2		U		
1970-12-11		D	70.02			2		U		
19 76 -01-08		D	68.96			2		U		
1978-01-17		D	68.82			2		U		
1981-03-30		D	71.06			2		U		
1981-04-30		D	71.43			2		U		

		Explanation
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Data Tips
Explanation of terms
Subscribe for system changes News

Accessibility

Plug-Ins

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2017-03-06 18:05:46 EST 0.53 0.48 nadww02

USA.gov

Appendix B Lab Reports



February 10, 2017

DEAN ERICSON ENERGY TRANSFER P. O. BOX 1226

JAL, NM 88252

RE: 10" BLOCK VALVE (BLOCKER)

Enclosed are the results of analyses for samples received by the laboratory on 02/03/17 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 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. 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



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

10" BLOCK VALVE (BLOCKER)

Project Name: Project Number:

2C - 14-13

Project Location:

2C - 14-13 NONE GIVEN

141%

28-171

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #1 1.5' (H700273-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	5.29	0.500	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	8.97	0.500	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	41.5	1.50	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	55,8	3.00	02/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1179	6 73.6-14	0	L m					
Chloride, SM4500CI-B	mg/	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	02/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	884	50.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	4360	50.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	1090	50.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	196 %	6 35-147							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE NOTE: Unbiley and Damages. Cardinal's liability and client's exclusive remedy for miny claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incident by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based 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.

Celley I trains



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

RTEY SOOTE

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number:

2C - 14-13 Project Location: NONE GIVEN

Sampling Date:

Sampling Type:

02/03/2017

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #2 1.5' (H700273-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345		
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631		
Ethylbenzene*	0.323	0.050	02/05/2017	ND	2.17	108	2.00	0.194		
Total Xylenes*	1.28	0.150	02/05/2017	ND	6.13	102	6.00	0.335		
Total BTEX	1.60	0.300	02/05/2017	ND						
Surrogate: 4-Bromofluorobenzene (PIE	120	% 73.6-14	0							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	02/07/2017	ND	416	104	400	0.00		
TPH 8015M	mg/	/kg	Analyze	analyzed By: MS		Pro-			S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	69.2	50.0	02/04/2017	ND	195	97.4	200	10.3		
DRO >C10-C28	7060	50.0	02/04/2017	ND	209	105	200	13.9		
EXT DRO >C28-C36	2140	50.0	02/04/2017	ND						
Surrogate: 1-Chlorooctane	102	% 35-147								
Surrogate: 1-Chlorooctadecane	195	% 28-171								

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lieblity and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or sort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other clause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of 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 claim 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.

Colleg of treens .-



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

02/10/2017

Project Name: Project Number: 10" BLOCK VALVE (BLOCKER)

2C - 14-13

Project Location:

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #3 3' (H700273-03)

BTEX 8021B

Analyzed By: MS

E. Or a R. Sone			Totalyas	a by. 110					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	5.25	0.500	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	5.49	0.500	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	20.0	1.50	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	30.7	3.00	02/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 73.6-14	0						

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	02/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS			Υ'.			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	909	50.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	2130	50.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	526	50.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

141%

35-147

Surrogate: 1-Chlorooctadecane

117%

28-171

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. All claims, including those for negligence and any ofter cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above shalled reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Colleg I trains

Celey D. Keene, Lab Director/Quality Manager



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #4 1.5' (H700273-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	1.02	0.500	02/05/2017	ND	2.16	108	2,00	0.631	
Ethylbenzene*	6,27	0.500	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	23.0	1.50	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	30,3	3.00	02/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	115	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5330	16.0	02/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS			- 600	- 170	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	746	50.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	4730	50.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	1390	50.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	162	% 35-147							
Surrogate: 1-Chlorooctadecane	153	% 28-171							

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 emount paid by client fire unalyses. All claims, including those for negligence and any other cause whatshower shall be deemed varied unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of prints incurrent by claims, its additional transition of the services hereunder by Cardinal, regardless of whether such claims 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 approved of Cardinal Laboratories.

Colleg I trains



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #5 1.5' (H700273-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	<0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	<0.150	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	<0.300	0.300	02/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

105 %

73.6-140

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	02/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg		Analyze	d By: MS			77.90		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	<10.0	10.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	84.8	% 35-147							_

Surrogate: 1-Chlorooctadecane

92.0%

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Stability and client's exclusive remedy for any claim erising, whether based in contract or tort, shall be limited to the amount paid by client for unalyses. All claims, including those for negligence and any other cause whatsoneer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be hable including, without limitation, furnises interruptions, loss of use, or loss of profits incurred by client, its subidiaries, affiliates or successors arising out of or related to the performance of the aprices hermander. 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.

College of trains

Celey D. Keene, Lab Director/Quality Manager



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #6 4.5' (H700273-06)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	< 0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	< 0.150	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	< 0.300	0.300	02/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

103 %

73.6-140

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	02/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS	-6.2	- '''			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	32.2	10.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	16.2	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

84.9 %

35-147

Surrogate: 1-Chlorooctadecane

93.8 %

28-171

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be table for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incident by client, its subsidiaries, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim 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.

Colleg I treene

Celey D. Keene, Lab Director/Quality Manager



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #7 1.5' (H700273-07)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	<0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	0.220	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	<0.300	0.300	02/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

116%

73.6-140

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	02/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	1180	50.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	474	50.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

82.6%

35-147

Surrogate: 1-Chlorooctadecane

95.4%

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount paid by clein for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors arising out to the performance of the services humanidary in the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Clay Z time -



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

10" BLOCK VALVE (BLOCKER)

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #8 1.5' (H700273-08)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	<0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	<0.150	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	<0.300	0,300	02/05/2017	ND					

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS			- "		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	<10.0	10.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	82.5	% 35-147							

Surrogate: 1-Chlorooctadecane

90.2%

28-171

Cardinal Laboratories

*=Accredited Analyte

limited to the amount paid by client for unalyses, All claims, including those for negligence and any other cause whitsoever shall be dearned waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Color & trees-



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #9 4.5' (H700273-09)

В	EX	80	21B
_	_	_	

m		

Analyz	ed By	y: 1	45
--------	-------	------	----

400010,0000	mar ma		Analysed by this						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2,00	0.631	
Ethylbenzene*	<0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	0.312	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	0.312	0.300	02/05/2017	ND					

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	183	10.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	70.4	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

85.3 %

35-147

Surrogate: 1-Chlorooctadecane

94.6%

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether All claims, including those for negligence and limited to the amount paid by client for analyses. any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors assing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such dainn 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.

College Tatream



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #10 1.5' (H700273-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	0.380	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	0.204	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	0.593	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	1.18	0.300	02/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			111		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.8	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	413	10.0	02/04/2017	ND	205	103	200	9.93	QM-07, QR-03
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	88.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	116 9	6 28-171	170						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's flability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal bit liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incidend by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services haveunder by Cardinal, regardless of Whether such claim 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 swritten approval of Cardinal Laboratories,

Colleg I triens



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

10" BLOCK VALVE (BLOCKER)

Project Name: Project Number: Project Location:

2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #11 1.5' (H700273-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	<0.050	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	<0.050	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	< 0.150	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	<0.300	0.300	02/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1049	73.6-14	à	177					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10,0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	26.0	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	80.39	6 35-147							
Surrogate: 1-Chlorooctadecane	95.79	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinats liability and client's exclusive remedy for any claim arising, whether based in contract or tort, stall be limited to the amount paid by client for analyses. any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential diamages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianies, affiliates or successors arising out of or related to the performance of the services hereunider by Cardinal, regardless of Whether such claim 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.

Colory Z trains -



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Project Location:

NONE GIVEN

Jodi Henson

Sample ID: SAMPLE #12 4.5' (H700273-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2017	ND	2.19	110	2.00	0.345	
Toluene*	0.151	0.050	02/05/2017	ND	2.16	108	2.00	0.631	
Ethylbenzene*	0.228	0.050	02/05/2017	ND	2.17	108	2.00	0.194	
Total Xylenes*	1.15	0.150	02/05/2017	ND	6.13	102	6.00	0.335	
Total BTEX	1.53	0.300	02/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113	% 73.6-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	22.4	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	284	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	85.8	% 35-147							
Surrogate: 1-Chlorooctadecane	109	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any client ansing, whether based in contract or tent, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiants, artifliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

Celley Z. treene



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #13 1.5' (H700273-13)

mg	111
my	/ K

Analyzed By: MS

7,100,2122	9/	rig	randiyas	o by. 1-15						_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.921	0.100	02/07/2017	ND	2.18	109	2.00	0.505	QM-07	
Toluene*	7.12	0.100	02/07/2017	ND	2.15	108	2.00	0.763	QM-07	
Ethylbenzene*	1.75	0.100	02/07/2017	ND	2.15	108	2.00	0.169	QM-07	
Total Xylenes*	6.25	0.300	02/07/2017	ND	6.07	101	6.00	0.0884	QM-07	
Total BTEX	16.0	0.600	02/07/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIL

114%

73.6-140

Chloride, SM4500CI-B	

×	**		. /	L.
ı	ш	м	1	k

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS				1000	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	213	50.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	811	50.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<50.0	50.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

92.8 %

35-147

Surrogate: 1-Chlorooctadecane

142 %

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim urising, whether based in contract or tert, shall be limited to the amount paid by client for unaryses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be leather including, without limitation, business interruptions, loss of use, or loss of prinfts incurred by client, its subsidiances, affiliates or successors arising out of or related for the performance of the services hereunder claim is based upon any of the above stated reasons of otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with verifiten approval of Cardinal Laboratories. In no event shall Cardinal be liable for

Colleg I trema



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported: 02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #14 1.5' (H700273-14)

BTEX 8021B	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0.300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	73,6-14	Ó						
Chloride, SM4500CI-B	mg/l	(g	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	77.6	50.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<50.0	50.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	71.29	35-147							
Surrogate: 1-Chlorooctadecane	106 %	28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's hability and client's exclusive remedy for any claim ansing, whether based in contract or text, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any either cause whatsoever shall be deemed walked unless made in writing and received by Cardinal within they (30) days after compistion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without fimilation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its submissibilities, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated resears 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.

Celly Z triene



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #15 4.5' (H700273-15)

BTEX 8021B	mg/kg

ALCOHOLOGICAL		778	- Colory a c						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	0.082	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	0.604	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	0.687	0.300	02/07/2017	ND					

Analyzed By: MS

Surrogate: 4-Bromofluorobenzene (PIL

109%

73.6-140

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	591	50.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<50.0	50.0	02/04/2017	ND					
Surrogate: 1-Chlorogatane	84.8	% 35-147							

Surrogate: I-Chlorooctane

Surrogate: 1-Chlorooctadecane

113%

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's hability and client's exclusive remedy for any claim unsuring, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thety (30) days after compellion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by Clerit, its subsidiaries, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Cheny I trans

Celey D. Keene, Lab Director/Quality Manager



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #16 1.5' (H700273-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2,00	0.763	
Ethylbenzene*	0.091	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	0.444	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	0.535	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113	% 73,6-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	1630	50.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<50.0	50.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	83.3	% 35-147							
Surrogate: 1-Chlorooctadecane	166	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Darmages. Cardinal's Nability and client's exclusive remedy for any claim arising, whether based in contract or tork, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, artiflates or successors arising out of or related to the performance of the services freewinder by Cardinal, regardless of whether such dains 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.

College & trans-



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #17 1.5' (H700273-17)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0.300	0.300	02/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

104%

Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	<10.0	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

79.5 %

35-147

73.6-140

Surrogate: 1-Chlorooctadecane

99.8 %

28-171

Cardinal Laboratories

*=Accredited Analyte

PLICASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive nemedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. any other cause whatoever shall be deemed waved unless made in writing and received by Cardinal within thery (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim 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.

College of trains

Celey D. Keene, Lab Director/Quality Manager

Page 18 of 61



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #18 4.5' (H700273-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	0.188	0.100	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.100	0.100	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	5.52	0.300	02/07/2017	ND	6.07	101	6,00	0.0884	
Total BTEX	5.71	0.600	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	135	73,6-14	0	1.46-					001
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	208	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	1190	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	103 5	% 35-147	,						
Surrogate: 1-Chlorooctadecane	136 9	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTIC: Liability and Daniages. Cardinal's liability and client's exclusive remedy for any claim anting, whether based in contract or tort, shall be initized to the amount paid by cleant for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim 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.

Calley I traine -



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

2C - 14-13 NONE GIVEN

1 Sept 11 - Comment

Sample ID: SAMPLE #19 1.5' (H700273-19)
BTEX 8021B mg/kg

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	0.291	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0.300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	110%	73.6-14	o	1, 100					
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: HM					

Attitution of a	1119	7119	Anatyze	a by. ma					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.3	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	1080	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO > C28-C36	<10.0	10.0	02/04/2017	ND					
No. Contrary	20.2								

Surrogate: 1-Chlorooctane

84.3 %

35-147

Surrogate: 1-Chlorooctadecane

117%

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for liny claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valued unless made in writing and received by Cardinal vittin thirty (30) days after completion of the applicable service. In no event shall Cardinal the hable 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 hereinder by Cardinal, regardless or whether such daims 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.

Colleg 7 trans-



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Sample ID: SAMPLE #20 1.5' (H700273-20)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	0.841	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	0.841	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	136 9	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	ka	Analyze	d By: HM					

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS			by the			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	60.1	50.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	1720	50.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<50.0	50.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

86.1%

35-147

Surrogate: 1-Chlorooctadecane

128 %

28-171

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 ton, shall be limited to the amount paid by client for analysiss. All claims, including those for negligence any other cause whatsnever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential dan including, without limitation, business interruptions, loss of use, or loss of priofits incurred by Clerk, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether claims is based upon any of the above stated reasons or otherwise. Results relate only to the uniques identified above. This report shall not be reproduced except in full with written approval of Cardinal Labertacries.



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To;

Received: Reported:

BTEX 8021B

GRO C6-C10

DRO >C10-C28

EXT DRO >C28-C36

02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

mg/kg

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #21 4.5' (H700273-21)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	0.225	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	2.39	0.150	02/07/2017	ND	6.07	101	6,00	0.0884	
Total BTEX	2.61	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	137	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

ND

191

205

95.6

103

200

200

4.89

9,93

02/04/2017

02/04/2017

02/04/2017

Analyzed By: MS

Surrogate: 1-Chlorooctane	107 %	35-147
Surrogate: 1-Chlorooctadecane	123 %	28-171

110

1570

<10.0

10.0

10.0

10.0

Cardinal Laboratories

*=Accredited Analyte

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

alex I time



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

103 %

28-171

Sample ID: SAMPLE #22 1.5' (H700273-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	< 0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0.300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	121 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS		100			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10,0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	746	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	65.4	% 35-147							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tors, shall be initied to the amount paid by client for enalyses. All claims, including those for megligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services harvainder by Cardinal, regardless of whather such claims 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.

Colleg I tiens



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017 10" BLOCK VALVE (BLOCKER)

Project Name: Project Number: Project Location:

2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: SAMPLE #23 1.5' (H700273-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.100	0.100	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	< 0.100	0.100	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	0.923	0.300	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	0.923	0.600	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	1449	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	161	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	2600	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					
Surrogate: 1-Chlorooctane	1229	6 35-147							
Surrogate: 1-Chlorooctadecane	143 9	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's liability and cleant'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 mediagness and In no event shall Cardinal be liable for any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiantes, affiliates or successors arising out of or related to the performance of the services hereunder claim 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.

Celley Z. trans-



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

02/10/2017

Reported: Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #24 4.5' (H700273-24)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	1.92	1.00	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<1.00	1.00	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	57.8	3.00	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	59.7	6.00	02/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

114%

73.6-140

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS				5-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10	1670	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	4080	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

197 %

35-147

Surrogate: 1-Chlorooctadecane

165 %

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE; Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim anising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause waspicovers shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incorred by client, life subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based 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.

aleg Z. Kins.



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017 02/10/2017

Reported:

Project Name: 10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #25 1.5' (H700273-25)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.088	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	3.40	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	3.45	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	11.9	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	18.9	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	1739	6 73.6-14	0	.5.1					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	91.2	10.0	02/04/2017	ND	191	95.6	200	4.89	
			10 By 20 By 20 Land	N/m	205	103	200	9.93	
DRO >C10-C28	1220	10.0	02/04/2017	ND	205	103	200	3.33	

Surrogate: 1-Chlorooctane

92.9 %

35-147

Surrogate: 1-Chlorooctadecane

125 %

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any client arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligibles are not negligible service. In no avent shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no avent shall Cardinal be liable for incidental or consequential damages including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitutions a distinct or successors arising out of or related to the performance of the services frereunder by Cardinal, regardless of whether sucl claims 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.

Celly Z. Kinne -



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

BTEX 8021B

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

mg/kg

Sample ID: SAMPLE #26 1.5' (H700273-26)

A Later Expense	11197	ng .	Analyze	u by. ris					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	4.76	0.200	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	5.46	0.200	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	33.2	0.600	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	43.4	1.20	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	134 9	% 73.6-14	Ö						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	128	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	483	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	1930	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

123 %

122 %

35-147 28-171

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. All claims, including those for negligence and my other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within theirty (30) days after completion of the applicable service. In no event shall Cardinal be labely of incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by them, its subsidiaries, affiliates or successors arising out of or related to the performance of the services inereunder by Cardinal, regardless of whether such dain 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.

Colog I trans-



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name: Project Number: Project Location: 10" BLOCK VALVE (BLOCKER)

2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #27 4.5' (H700273-27)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	12.6	1.00	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	22.1	1.00	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	97.1	3.00	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	132	6.00	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118	% 73.6-14	0	r L					
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1760	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	3800	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctadecane 164% 28-171

218%

35-147

Cardinal Laboratories

Surrogate: I-Chlorooctane

*=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 unalyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless much in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the 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.

Colleg Z treens



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location:

2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #28 1.5' (H700273-28)

	/kg

BIEX 8021B	mg/	kg	Anaiyze	u by. MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	1 1 1 1
Toluene*	<0.050	0.050	02/07/2017	ND	2,15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0.300	0.300	02/07/2017	ND					
4-4 (4-4)									

Surrogate: 4-Bromofluorobensene (PIL

105 %

73.6-140

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	02/08/2017	ND	432	108	400	0.00	QM-07
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	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	13.7	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane

83.6%

35-147

Surrogate: 1-Chlorooctadecane

101%

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim unsing, whether based in contract or tort, shall be limited to the amount point by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no even including, without limitation, business interruptions, loss of use, or loss of profits incurred by climit, its subsidiaries, affiliates or successors arising out of or related to the performance In no event shall Cardinal be liable for incidental or consequential damages claim 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.

Celly I treen

Celey D. Keene, Lab Director/Quality Manager

Page 29 of 61



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

BTEX 8021B

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

mg/kg

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #29 4.5' (H700273-29)

T I THE STREET		119	14,144,144	W. C. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	< 0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0,300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	105 9	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	02/08/2017	ND	432	108	400	0.00	

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS			11111		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2017	ND	191	95.6	200	4.89	
DRO >C10-C28	<10.0	10.0	02/04/2017	ND	205	103	200	9.93	
EXT DRO >C28-C36	<10.0	10.0	02/04/2017	ND					

Surrogate: 1-Chlorooctane 79.1% 35-147 Surrogate: 1-Chlorooctadecane 95.0% 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clean's exclusive namedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless inside in writing and received by Cardinal within thirty (20) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its shortestances are successives within put of or related to the performance of the services harsunder by Cardinal, regardless of whether such claim; is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This

Colleg I traine



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

10" BLOCK VALVE (BLOCKER)

Project Name: Project Number: Project Location:

2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #30 4.5' (H700273-30)

BTEX 8021B	mg/	/kg	Analyze	d By: MS
Analyte	Result	Reporting Limit	Analyzed	Method Blank
-		0.000	02/02/2017	NIC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.18	109	2.00	0.505	
Toluene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	<0,300	0,300	02/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

104%

73.6-140

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/03/2017	ND	171	85.3	200	0.147	
DRO >C10-C28	<10.0	10.0	02/03/2017	ND	173	86.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	02/03/2017	ND					

Surrogate: 1-Chlorooctane

81.4%

35-147

Surrogate: 1-Chlorooctadecane

98.6%

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remerty for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within this (36) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages including, without limitation, business interruptions, loss at it was, or loss at was, or loss at the profits incurred by Clernt says or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the camples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

aley ? time



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #31 4.5' (H700273-31)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	13.5	5.00	02/08/2017	ND	2.18	109	2.00	0.505	
Toluene*	170	5.00	02/08/2017	ND	2.15	108	2.00	0.763	
Ethylbenzene*	135	5.00	02/08/2017	ND	2.15	108	2.00	0.169	
Total Xylenes*	381	15.0	02/08/2017	ND	6.07	101	6.00	0.0884	
Total BTEX	700	30.0	02/08/2017	ND					

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	2360	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS				-10	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifie

Chioride	2360	16.0	02/06/2017	ND	432	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS				-10	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10400	50.0	02/04/2017	ND	195	97.4	200	10.3	
DRO >C10-C28	21100	50.0	02/04/2017	ND	209	105	200	13.9	
EXT DRO >C28-C36	5460	50.0	02/04/2017	ND					

35-147

28-171

Surrogate: 1-Chlorooctane 326% Surrogate: 1-Chlorooctadecane 336 %

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, any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within therty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidieries, affiliates or successors arising out of or related to the performance of the services hierarchy by Cardinal, regardless of whether such

Celley 7 trans-



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #32 4.5' (H700273-32)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	200
Toluene*	< 0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	< 0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	<0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	6 73.6-14	0	7.10					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	<10.0	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO > C28-C36	<10.0	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	81.39	6 35-147					1		
Surrogate: 1-Chlorooctadecane	93,29	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's flability and client's exclusive remedy for any claim arising, whether based in contract or ton, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be 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 insended by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Ausuits relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celley Z trains



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

10" BLOCK VALVE (BLOCKER)

Project Name: Project Number: Project Location:

2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #33 6' (H700273-33)

BIEX BUZIB	mg,	кg	Analyze	а ву: м5					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	18.2	2.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	47.5	2.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	167	6.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	233	12.0	02/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL

114%

73.6-140

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS					4 - 4 -	S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3340	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	4030	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	1680	10.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

35-147

Surrogate: 1-Chlorooctadecane

142 %

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived incless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of sixt, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

Celley Z. trains



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

79.3 %

86.3 %

35-147

28-171

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #34 4.5' (H700273-34)

BTEX 8021B	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	<0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	<0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	106%	6 73.6-14	0						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	45.2	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	26.1	10.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Diamages. Cardinal's flability and client's exclusive remedy for any claim arising, whether based in contract or tert, shall be limited to the amount paid by client for analyses. All claims, including these for negligence and any other cause whatsoever shall be deemed waived uninas made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its insignations, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This

Cally I treem



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number:

2C - 14-13

Sampling Condition:

Cool & Intact

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #35 6' (H700273-35)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	19.8	5.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	215	5.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	88.7	5.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	385	15.0	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	708	30.0	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 73,6-14	o						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	8360	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	6960	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO > C28-C36	1960	50.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	215 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	153 9	28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's fiability 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 hegligence and any other cause whatsoever shall be deamed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, husiness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, attributes or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of Whether such

College I trans-



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #36 6' (H700273-36)

mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2.77	2.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
48.0	2.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
38.0	2.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
173	6.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
262	12.0	02/08/2017	ND					
	Result 2.77 48.0 38.0 173	Result Reporting Limit 2.77 2.00 48.0 2.00 38.0 2.00 173 6.00	Result Reporting Limit Analyzed 2.77 2,00 02/08/2017 48.0 2,00 02/08/2017 38.0 2,00 02/08/2017 173 6,00 02/08/2017	Result Reporting Limit Analyzed Method Blank 2.77 2,00 02/08/2017 ND 48.0 2,00 02/08/2017 ND 38.0 2,00 02/08/2017 ND 173 6.00 02/08/2017 ND	Result Reporting Limit Analyzed Method Blank BS 2.77 2,00 02/08/2017 ND 2.00 48.0 2,00 02/08/2017 ND 1.96 38.0 2,00 02/08/2017 ND 1.95 173 6.00 02/08/2017 ND 5.53	Result Reporting Limit Analyzed Method Blank BS % Recovery 2.77 2.00 02/08/2017 ND 2.00 99.9 48.0 2.00 02/08/2017 ND 1.96 98.0 38.0 2.00 02/08/2017 ND 1.95 97.6 173 6.00 02/08/2017 ND 5.53 92.2	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 2.77 2.00 02/08/2017 ND 2.00 99.9 2.00 48.0 2.00 02/08/2017 ND 1.96 98.0 2.00 38.0 2.00 02/08/2017 ND 1.95 97.6 2.00 173 6.00 02/08/2017 ND 5.53 92.2 6.00	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 2.77 2,00 02/08/2017 ND 2.00 99.9 2.00 3.84 48.0 2,00 02/08/2017 ND 1.96 98.0 2.00 4.14 38.0 2,00 02/08/2017 ND 1.95 97.6 2.00 3.96 173 6.00 02/08/2017 ND 5.53 92.2 6.00 3.64

Surrogate: 4-Bromofluorobenzene (PID

114%

73.6-140

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3530	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	6820	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	1950	50.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

184%

35-147

Surrogate: 1-Chlorooctadecane

164%

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansign, whether bised in contract or ton, shall be limited to the amount plad by client five analyses. All claims, including those for negligence and any other cause whatoverer shall be deemed waived unleas made in writing and received by Cardinal within thinky (36) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages including, without limitation, business interruptions, loss of use, or loss of profits incurred by Clerk, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether suct dains 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.

Celey Z. trans-



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #37	4.5' (H700273-37)
BTEX 8021B	mg/kg

BTEX 8021B	mg/kg			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	17.1	10.0	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	220	10.0	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	128	10.0	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	423	30.0	02/08/2017	ND	5.53	92.2	6.00	3,64	
Total BTEX	789	60.0	02/08/2017	ND					

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS				112	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10600	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	18600	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	5230	50.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane 312% 35-147 Surrogate: 1-Chlorooctadecane 305 % 28-171

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. All claims, including those for negligence and any other cause whistsoever shall be deemed waved unless made in writing and received by Cardinal within thety (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or refated to the performance of the services hereunder by Cardinal, regardless of whether such daim is bised 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.

Colleg There



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

02/10/2017

Reported: Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #38 6' (H700273-38)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.4	5.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	177	5.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	71.6	5.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	289	15.0	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	548	30.0	02/08/2017	ND					

Surrogate: 4-1	Bromofluorobenzene	(PIL
----------------	--------------------	------

110%

73.6-140

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5740	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	4230	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	893	50.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

161%

35-147

Surrogate: 1-Chlorooctadecane

128 %

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remety for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thiny (20) days after campletion of the applicable service. In no event shall Cardinal for including, including, without limitation, justices interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

Celley I treene -



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

10" BLOCK VALVE (BLOCKER) 2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #39 6' (H700273-39)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	11.1	1.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	16.2	1.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	70.1	3.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	97.4	6.00	02/08/2017	ND					

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1460	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	4570	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	1350	50.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

160%

35-147

Surrogate: 1-Chlorooctadecane

151%

28-171

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. All claims, including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Colleg I treeme.



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

BTEX 8021B

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #40 6' (H700273-40)

A. H. C.									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	5.74	2.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	14.9	2.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	95.0	6.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	116	12.0	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112	% 73.6-14	10	SAM					
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2220	50.0	02/06/2017	ND	186	93,1	200	0.568	
DRO >C10-C28	4330	50.0	02/06/2017	ND	200	99.9	200	0.657	
And the second s									

ND

02/06/2017

50.0

Analyzed By: MS

35-147 161% Surrogate: 1-Chlorooctane 130 % 28-171 Surrogate: 1-Chlorooctadecane

1670

Cardinal Laboratories

EXT DRO > C28-C36

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exchisive ramedy 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 waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be fiable for incidental or consequential da including, without limitation, business interruptions, lass of use, or loss of profits incurred by Cardinal, regardlins of whether In no event shall Cardinil be liable for incidental or consequential damages daim is based upon any of the above stated reasons or otherwise. Results relate only in the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

College This



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported:

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #41 6' (H700273-41)

BTEX 8021B	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<1.00	1.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	1.42	1.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	5.21	1.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	36.9	3.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	43.5	6.00	02/08/2017	ND					

Surrogate:	4-Bromof	luorobenzene	(PIL
------------	----------	--------------	------

hloride, SM4500CI-B	mg	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M		g/kg Analyzed By: MS		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1000	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	3670	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	1530	50.0	02/06/2017	ND					

Surrogate: 1-Chlorooctane

144 %

35-147

Surrogate: 1-Chlorooctadecane

140%

28-171

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, any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising In no event shall Cardinal be liable daim is based upon any of the above stated masons 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.

Colleg Z France -



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #42 6' (H700273-42)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	5.58	1.00	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	30.1	1.00	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	123	3.00	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	159	6.00	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116	% 73.6-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1730	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	5500	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	1910	50.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	158	% 35-147	7						
Surrogate: 1-Chlorooctadecane	171	% 28-17.	i						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clium's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed variety unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidieries, effiliates or successors arising out of or related to the performance of the services foreunder by Cardinal, repartiless of whether such claim 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.

Colleg & traine -



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

02/10/2017

Reported: Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #43 4.5' (H700273-43)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	<0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	<0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	6 73.6-14	0	7/1/					
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS					William	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	21.8	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	14.3	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	78.3 9	6 35-147							
Surrogate: 1-Chlorooctadecane	86.19	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Alability and client's exclusive remitty for any claim around, whether based in contract or tort, shall be limited to the amount polid by client for enalyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirey (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, metaloin, business information, pulsioness information, pulsioness information, pulsioness information of the services hereunder by Cardinal within third above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celley I trans -



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #44 SURFACE (H700273-44)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	0.364	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	0.122	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	0.517	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	1.04	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 73.6-14	0	To a large					
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	1100	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	354	50.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	75.3 9	% 35-147							
Surrogate: 1-Chlorooctadecane	103 9	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contact or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, artificates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daim 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.

Colleg Z. Kinne



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #45 SURFACE (H700273-45)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	0.131	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	<0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0,300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	105 9	% 73.6-14	o	1.0					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	478	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	288	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	70.0	% 35-147							
Surrogate: 1-Chloroactadecane	89.3	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's esclusive rement for any claim aming, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed wolved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service, In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors anxing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim 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.

Colleg I trune



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: Reported: 02/03/2017

02/10/2017

10" BLOCK VALVE (BLOCKER)

Project Name: Project Number: Project Location:

2C - 14-13

88.4%

28-171

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #46 SURFACE (H700273-46)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	<0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	<0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	6 73.6-14	Ô						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	10.3	10.0	02/06/2017	ND	200	99,9	200	0.657	
EXT DRO >C28-C36	10.2	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	82.4 9	% 35-147	,						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLESE NOTE: Liability and Damages. Cardinal's flability and client's exclusive remesty for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of this applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by Client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such All claims, including those for negligence and claim 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.

College I trans



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported: 02/10/2017

Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13 NONE GIVEN Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #47 SURFACE (H700273-47)

BTEX 8021B	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	<0.500	0.500	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.500	0.500	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	14.1	1.50	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	14.1	3.00	02/08/2017	ND					
Surragate: 4-Bromofluorobenzene (PIL	117%	73.6-14	o						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	02/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS					5-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	659	50.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	7090	50.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	2460	50.0	02/06/2017	ND					
Surrogate: 1-Chloroactane	133 %	6 35-147							
Surrogate: 1-Chlorooctadecane	1859	6 28-171							

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within theiry (30) risys after completion of the applicable service. In no event shall Cardinal be lighte for incidental or consequential damages, including, without limitation, business interruptions, laws 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 or whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be regreduced except in full with written approval of Cardinal Laboratories.

Celley Z triene



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #48 SURFACE (H700273-48)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	<0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	0.194	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 73.6-14	o						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC					- 107	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/09/2017	ND	432	108	400	3.64	QM-07, QR-03
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	11.3	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	720	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	251	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	88.3	% 35-147							
Surrogate: 1-Chlorooctadecane	98.9	% 28-171	1						

Cardinal Laboratories

*=Accredited Analyte

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

Color Z. trans -



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Reported: 02/10/2017

Project Name: Project Number: 10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

NONE GIVEN

Sampling Date:

impling Date.

Sampling Type: Sampling Condition:

Sample Received By:

02/03/2017

Soil

Cool & Intact Jodi Henson

Sample ID: SAMPLE #49 SURFACE (H700273-49)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	<0.050	0,050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	<0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0,300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 73.6-14	o						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/09/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS			10.5		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	77.9	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	42.0	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	79.6	% 35-147							
Surrogate: 1-Chlorooctadecane	84.3	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Danuages. Cardinal's liability and client's exclusive remedy for any client ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoneer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of up not profits. Incurred by cleent go and the consequential damages, are successed, without the performance of the services hereunder by Cardinal, regardless of whether such claims to 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.

alley I time -



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #50 SURFACE (H700273-50)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2017	ND	2.00	99.9	2.00	3.84	
Toluene*	0.050	0.050	02/08/2017	ND	1.96	98.0	2.00	4.14	
Ethylbenzene*	<0.050	0.050	02/08/2017	ND	1.95	97.6	2.00	3.96	
Total Xylenes*	< 0.150	0.150	02/08/2017	ND	5.53	92.2	6.00	3.64	
Total BTEX	<0.300	0.300	02/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	6 73.6-14	n						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	02/09/2017	ND	432	108	400	3.64	
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	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	<10.0	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	<10.0	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	83.4 9	6 35-147							
Surrogate: 1-Chlorooctadecane	92.69	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim unsing, whether based in contract or text, shall be limited to the amount paid by client for analyses. All claims, including those for negligence end any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential diamages, 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 client is haved upon any of the above stated reasons or otherwise. Results felate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

College Therma



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

02/10/2017

Reported: Project Name:

10" BLOCK VALVE (BLOCKER)

Project Number: Project Location: 2C - 14-13

88.6%

28-171

NONE GIVEN

Sampling Date:

02/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SAMPLE #51 SURFACE (H700273-51)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2017	ND -	2.11	106	2.00	0.803	
Toluene*	<0.050	0.050	02/09/2017	ND	2.08	104	2.00	1.10	
Ethylbenzene*	<0.050	0.050	02/09/2017	ND	2.10	105	2.00	1.11	
Total Xylenes*	<0.150	0.150	02/09/2017	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	02/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/09/2017	ND	432	108	400	3.64	
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	02/06/2017	ND	186	93.1	200	0.568	
DRO >C10-C28	<10.0	10.0	02/06/2017	ND	200	99.9	200	0.657	
EXT DRO >C28-C36	<10.0	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	79.2	% 35-147							

Analyzed Dur MC

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLESSE NOTE: Liability and Damages, Cardinal's isballity and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be determed waived unless made in writing and received by Cardinals within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of prints incurred by client, its subsidiaries, strillates or successors arising out of or related to the performance of the services inventions by Cardinal within the performance of the services inventions by Cardinal Laboratories. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celly I triene



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Condition:

Cool & Intact

Project Number:

2C - 14-13

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SAMPLE #52 SURFACE (H700273-52)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.22	111	2.00	1.91	
Toluene*	<0.050	0.050	02/07/2017	ND	2.20	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.19	109	2.00	1.31	
Total Xylenes*	< 0.150	0.150	02/07/2017	ND	6.18	103	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 73.6-14	0	1,1					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/09/2017	ND	432	108	400	3.64	
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	02/06/2017	ND	189	94,4	200	0.373	
DRO >C10-C28	<10.0	10.0	02/06/2017	ND	205	103	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	02/06/2017	ND					
Surrogate: 1-Chlorooctane	85.09	6 35-147							
Surrogate: I-Chlorooctadecane	92.4 9	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Rability and clients exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount palld by Chent for inalyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be fiable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of prifits 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 claim 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 ventorn approval of Cardinal Laboratories.

Celly I Kins.



ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received:

02/03/2017

Sampling Date:

02/03/2017

Reported:

02/10/2017

Sampling Type:

Soil

Project Name:

10" BLOCK VALVE (BLOCKER)

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

C - 14-13

Sample Received By:

Jodi Henson

Project Number: Project Location: 2C - 14-13 NONE GIVEN

Sample ID: SAMPLE #53 SURFACE (H700273-53)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.22	111	2.00	1.91	1.00
Toluene*	0.287	0.050	02/07/2017	ND	2.20	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.19	109	2.00	1.31	
Total Xylenes*	6.27	0.150	02/07/2017	ND	6.18	103	6.00	1.32	
Total BTEX	6.56	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	157 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/09/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS		1000			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	123	50.0	02/06/2017	ND	189	94.4	200	0.373	
DRO >C10-C28	1180	50.0	02/06/2017	ND	205	103	200	1.32	
EXT DRO >C28-C36	447	50.0	02/06/2017	ND					
Surrogate; 1-Chlorooctane	88.6	% 35-147	7						
Surrogate: 1-Chlorooctadecane	107 9	28-17	1						

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 sort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or commitments, including, without limitation, business interruptions, loss of use, or loss of profits inciured by client, its subsidiaries, affiliates or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daim 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.

Colleg I trains



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.	
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.	
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference, QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.	
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.	
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.	
ND	Analyte NOT DETECTED at or above the reporting limit	
RPD	Relative Percent Difference	
**	Samples not received at proper temperature of 6°C or below.	
***	Insufficient time to reach temperature.	
×.	Chloride by SM4500CI-B does not require samples be received at or below 6°C	
	Samples reported on an as received basis (wet) unless otherwise noted on report	

Cardinal Laboratories *=Accredited Analyte

PLESS NOTE: Usability and Daminges. Claridinal's liability and client's exclusive relinedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of 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 claim 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.

Colley 7 treema



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476		ANALYSIS REDUEST
Company Name: ENERGY TECHS		ANACTOG
i	,0,0,#:	
Address:	Company:	30
City: State:	Zip: Attn:	-C
Phone #: Fax #:	Address:	
	vner: City:	.C
DC-14-13	State: Zip:	-
100	Blocker) Phone #:	Ex
101 000	4	
1	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.	JDGE HER : ID/BASE I / COOL HER	TPH 70
H700273	# CO! GROU WAS' SOIL OIL SLUC OTHE ACID ICE /	TIME
1 Sumple #1 1/2	2-3-11	J. 81848
## 12.		
101 SH		
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
10 - #1012		A search the share for the
A topic care with	(s exclusive tempo) to tay Uann along whether based in compart or on, that or minor to resource year or more t that withour exceptions of deemed valved violes minds or exclusive foreassed by Capital within 30 data distribution of the applicable when immerses control without inside to baseless indisruptions, based vives, or loss of profits accurated by client, its subsidiaries.	Les Billions of the Section of the applicable by Capitals within 1 to 1 t
Relinquished By: 2 - 3 - 3	ober by Condinal regardless of streemer such claim is bleed upon any of the above that Received By:	Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #:
Lines: L	to your sumson	5
Relinquished By:	Received By:	Decu
Time:	2	Johnnie
Delivered By: (Circle One)	- 20	
Sampler - UPS - Bus - Other: # 19	1.16 Aves Aves	

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



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476	76			
Company Name: Ewagy Transfer		BILL TO	ANALYSIS	REQUEST
T		P.O. #:		
		Company:		
City: State:	Zip:	Attn:		
Phone 排: Fax 非:		Address:		
Project #: Project Owner:	Ä	City:		
Project Name: 10" Block Value (B	Blocker)	State: Zip:		
on: 20-14-3		Phone #:		
1		Fax#:		+
	MATRIX	PRESERV. SAMPLING	lG .	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER ACID/BASE ICE / COOL OTHER	TPH CL BTX	
Sample # 11		4-3-17	8150	
12-12-				
#10-10-				
18 井(8 十/21				
# A 80 1 %	1	1	\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	
nd Damages. Cardinal's liability and client ing those for negligence and any princing factorial be liable for modernal or conseque		1 8 6	rit paid by the client for the is after competion of the applicable of by client its subsidiaries.	
Relinquished By: Date: Date: Times: 40 Relinquished By: Date:	Received By:	JUBBUL	Phone Result:	
Reinquisned by:	Service of		Jean	
Delivered By: (Circle One)	Sample Condition	dition CHECKED BY:	Johnnie	
Sampler - UPS - Bus - Other:		N S		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2526



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

H700273 Project Manager: Relinquished By: Sampler Name: Project Location: Project Name: Project #: Phone #: Address: Relinquished By: Delivered By: (Circle One) Lab I.D. KNEGY 8-4-3 Igle R. law Block Value (Blocker Sample I.D. Enc Son 10005 to Browes Project Owner: Time: State: (G)RAB OR (C)OMP Received By # CONTAINERS GROUNDWATER Cool Intact Wes Tres Sample Condition WASTEWATER MATRIX SOIL SLUDGE Fax #: City: P.O. #: OTHER Attn: Company: Phone #: Address: ACID/BASE PRESERV ed by Cardinal within 30 days after one ICE / COOL BILL TO OTHER Zip: -3-17 G:00A DATE SAMPLING ned by clean in subsidieren Fax Result: REMARKS: Phone Result TIME Method of the ago TPH □ Yes BTX No No ANALYSIS REQUEST Add'l Phone #: Add'l Fax #:

Sampler - UPS - Bus - Other:

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



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476	393-2476			
Company Name: Ewasy Trauste	R	BILL TO	ANALYSIS	REQUEST
M	Ola	P.O. #:		
		Company:		
City: Sta	State: Zip:	Attn:		
Phone #: Fax #:	**	Address:		
	Project Owner:	City:		
Project Name: 10 " Block Value	(Blocker)	State: Zip:		
Project Location: 2(-)4-3	7	Phone #:		
Sampler Name: LUC R BO	المسرون	Fax #:		
FOR USE ONLY	MATRIX	RIX PRESERV. SAMPLING	NG	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE ICE / COOL OTHER:	TPH CL BTx	
7. CE# 12 H 31 4	2 4	2	1:15/hr	
0				
#34 4	6			
#35 6				
4 95年 96	7, -			
***************************************	->			
HD - # HO	Shave remeat for any claim around whether based	Med to the amount	a or the clark for the	
PLEASE NOTE: Laudidy and Damager. Caromais laudely and clients exclusive tro analysis. All clients including those for regispency and any direct clients enhancement service, in the execut shall Caulinal be label for incidental or consequential distribution.	Austre intrinsity for any claim anding whether based high-peri shall be deemed waved unless made in damagae, nounding whout intrigion business inte can her-knozer by Cardinal incardless of whether is		pad of the destruction set completion of the applicable by client, its schedulines. Treasons or otherwise.	
	1:40 1:40 1:40 1:40 1:40 1:40 1:40 1:40	Henson	Phone Result: Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #: REMARKS:	
Relinquished By: Date:	re: Received By:			
		Sample Condition CHECKED BY:		
Sampler - UPS - Bus - Other:	# 1) 110 Dives	No.		

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(5)	(575) 393-2326 FAX (575) 393-2476	76			
Company Name:	EWASH Transfe		BILL TO		ANALYSIS REQUEST
Project Manager:	11)		P.O. #:		
Address:			Company:		
City:	State:	Zip:	Attn:		
Phone #:	Fax#:		Address:		
Project #:	Project Owner	,	city:		
Project Name:	10" Block Value (1	Blacker)	State: Zip:		
Project Location:	JC-H-3		Phone #:		
Sampler Name:	Talar R. Brownes		Fax#:		
FOR LAB USE CALLY		MATRIX	NX PRESERV SAMPLING	NG	
Lab I.D. H780275	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH CL BTX	
1,1	Survey # 41 61) 6113VA	
42	中中				
54	+ +3 +'s'				
44	サ 井 まくいらん				
3	キサストライト				
17	# # Un Surface				
34	# # 48 Swa				
35	# # PO Safex	Ì	1	 	
PLEASE NOTE Libbility and I analyses. All claims including I	al's lability and cleritis exclusive re- nce and any other sause whatsoever	r any claim arising whether based to deemed waived unless made in	ountract or surfushall be limited to the amount paid by the client for the enting and received by Cardinal within 30 days after completion of the applicable morrors from if one or box of pools incurred by client its subsidiaries.	paid by the client for the after completion of the applicable for client its subsidiaries.	
Relinquished By:	ume performance of services here. Date: み-3・ Time:	Received By:	MANUM OF THE COST CONTROL OF COST OF C	lt: □ Yes	□ No Add'I Phone #: □ No Add'I Fax #:
Relinquished By:	V	Received By:	Jacker	1	
Delivered By: (Circle One)	(Circle One)	100	Sample Condition CHECKED BY: Cool intact (mittals)		
Sampler - UPS -	Bus - Other:	- Wes	II Yes		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 3932326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Houds, NM 9044 (575) 393-2326 FAX (575) 393-2476 Company Name:	101 East Mariand, Hobbs, NM 99249 (575) 393-2326 FAX (575) 393-2476	BILL TO	ANALYSIS REQUEST
Decar &	LICE COM	P.O. #:	
		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name: 10 " Block	Value (Blocker)	State: Zip:	
on: 2C-14	-13	Phone #:	
Sampler Name:		Fax #:	
FOR LABUSE CHICK	MATRIX	X PRESERV. SAMPLING	
Lab I.D. Sample I.D.	G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE ICE / COOL OTHER: DATE TIME	TPH CL BTx
Sample	Swar		524
55 H#58	Swf	+	1-
PLEASE NOTE: Liptury and Damague. Cardinal's liptury and analyses. All claims and day offi	clerity excitative retriety for any claim straing whether classed encounter whosteness must be deemed whered unless made in the classes of the counter whether the classes of the classes	in contend or just, shall be finited to the amount coald by the deat for the writing and necessary for Cranical within 30 days after completion of the applicable injurious, loss of use, or task of portion and more and by clearly as possibilities.	dest to the dan of the applicable spandares.
Relinquished By:	16	dum a traded upon any of the above stated re-patrick. Fax REW	Phone Result:
Normal Property of	Time:		
Delivered By: (Circle One)	Sample C Cool In	Sample Condition CHECKED BY: Cool Intact Onitials	

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



April 11, 2017

BERNARD BUCKISCH
GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE, NM 87110

RE: 2C - 14 - 3 10"

Enclosed are the results of analyses for samples received by the laboratory on 03/29/17 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/lab accredited certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Reported:

11-Apr-17 11:57



Analytical Results For:

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10" Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1113520-1-032817-TP-1-14'	H700827-01	Soil	28-Mar-17 11:40	29-Mar-17 14:15
S-1113520-1-032817-TP-2-8'	H700827-02	Soil	28-Mar-17 10:55	29-Mar-17 14:15
S-1113520-1-032817-TP-3-8'	H700827-03	Soil	28-Mar-17 12:10	29-Mar-17 14:15
S-1113520-1-032817-TP-5-4'	H700827-04	Soil	28-Mar-17 13:00	29-Mar-17 14:15
S-1113520-1-032817-TP-6-4'	H700827-05	Soil	28-Mar-17 13:20	29-Mar-17 14:15
S-1113520-1-032817-TP-8-4'	H700827-06	Soil	28-Mar-17 13:50	29-Mar-17 14:15
S-1113520-1-032817-TP-9-4'	H700827-07	Soil	28-Mar-17 14:15	29-Mar-17 14:15
S-1113520-1-032917-TP-3-23'	H700827-08	Soil	29-Mar-17 09:55	29-Mar-17 14:15
S-1113520-1-032917-TP-10-4'	H700827-09	Soil	29-Mar-17 10:20	29-Mar-17 14:15
S-1113520-1-032917-TP-11-4'	H700827-10	Soil	29-Mar-17 10:35	29-Mar-17 14:15
S-1113520-1-032917-TP-12-4'	H700827-11	Soil	29-Mar-17 10:45	29-Mar-17 14:15
S-1113520-1-032917-TP-13-4'	H700827-12	Soil	29-Mar-17 11:05	29-Mar-17 14:15
S-1113520-1-032917-TP-14-4'	H700827-13	Soil	29-Mar-17 11:20	29-Mar-17 14:15
S-1113520-1-032917-TP-15-4'	H700827-14	Soil	29-Mar-17 12:05	29-Mar-17 14:15

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"
Project Number: 1113520-1

Reported: 11-Apr-17 11:57

Project Manager: BERNARD BUCKISCH Fax To:

S-1113520-1-032817-TP-1-14' H700827-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
General Chemistry										
% Dry Solids	86.4			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	127	·	11.6	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032817-TP-2-8'

H700827-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds l	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		96.5 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			106 %	25.1	-158	7032911	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			116 %	26.8	-170	7032911	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry				•						
% Dry Solids	86.4			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	269		11.6	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032817-TP-3-8'

H700827-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.4 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7032911	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			98.4 %	25.1	-158	7032911	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			107 %	26.8	-170	7032911	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	83.8			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	225		11.9	mg/kg dry	10	B704016	JDA	06-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032817-TP-5-4' H700827-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.8 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			75.3 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			84.0 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Analy	ytical Lab	oratories					
General Chemistry										
% Dry Solids	87.7			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	<11.4		11.4	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032817-TP-6-4' H700827-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.2 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			89.2 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			97.6 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Analy	ytical Lab	oratories					
General Chemistry										
% Dry Solids	92.1			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	56.4		2.17	mg/kg dry	2	B704016	JDA	06-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032817-TP-8-4'

H700827-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.4 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			82.1 %	25.1-	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			87.6 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	87.0			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	537		11.5	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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

Reported:

11-Apr-17 11:57



Analytical Results For:

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

S-1113520-1-032817-TP-9-4'

H700827-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.0 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			87.7 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			87.6 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry				•						
% Dry Solids	90.8			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	359		11.0	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Reported: 11-Apr-17 11:57

Fax To:

S-1113520-1-032917-TP-3-23' H700827-08 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Green Anal	ytical Labo	oratories					
9	General Chemistry										
•	% Dry Solids	88.6			%	1	B704020	JDA	06-Apr-17	EPA160.3/16	
										84	
2	Soluble (DI Water Extraction)										
	Chloride	215		11.3	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 Project: 2C - 14 - 3 10"
Project Number: 1113520-1

Reported: 11-Apr-17 11:57

ALBUQUERQUE NM, 87110

Project Manager: BERNARD BUCKISCH

Fax To:

S-1113520-1-032917-TP-10-4' H700827-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		96.6 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	40.4		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			85.5 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			93.5 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	91.1			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	<11.0		11.0	mg/kg dry	10	B704016	JDA	05-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"
Project Number: 1113520-1

Reported: 11-Apr-17 11:57

Project Manager: BERNARD BUCKISCH

Fax To:

S-1113520-1-032917-TP-11-4' H700827-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		96.7 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			92.2 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			99.0 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	91.9			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)									
Chloride	51.1		2.18	mg/kg dry	2	B704016	JDA	06-Apr-17	EPA300.0	M:

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"
Project Number: 1113520-1

Reported: 11-Apr-17 11:57

Project Manager: BERNARD BUCKISCH

Fax To:

S-1113520-1-032917-TP-12-4' H700827-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.2 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			83.9 %	25.1-	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			86.5 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	88.4			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)									04	
Chloride	350		11.3	mg/kg dry	10	B704016	JDA	06-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"

Project Number: 1113520-1 Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032917-TP-13-4' H700827-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.2 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			89.4 %	25.1	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			90.1 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	89.2			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	264		11.2	mg/kg dry	10	B704016	JDA	06-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032917-TP-14-4' H700827-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.4 %	72-	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			87.4 %	25.1-	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			87.7 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			~							
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	91.3			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	59.7		11.0	mg/kg dry	10	B704016	JDA	06-Apr-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

S-1113520-1-032917-TP-15-4' H700827-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7033101	MS	31-Mar-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.5 %	72	148	7033101	MS	31-Mar-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctane			87.6 %	25.1-	-158	7033002	MS	30-Mar-17	8015B	
Surrogate: 1-Chlorooctadecane			90.9 %	26.8	-170	7033002	MS	30-Mar-17	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	83.6			%	1	B704020	JDA	06-Apr-17	EPA160.3/16 84	
Soluble (DI Water Extraction)										
Chloride	259		12.0	mg/kg dry	10	B704016	JDA	06-Apr-17	EPA300.0	

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. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 su claim 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.



GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Reported: 11-Apr-17 11:57

Fax To:

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte Result Limit	Units	Level	D 1					
_		Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7033101 - Volatiles								
Blank (7033101-BLK1)		Prepared &	Analyzed:	31-Mar-17				
Benzene ND 0.050	mg/kg							
Toluene ND 0.050	mg/kg							
Ethylbenzene ND 0.050	mg/kg							
Total Xylenes ND 0.150	mg/kg							
Total BTEX ND 0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID) ND	mg/kg	0.0500		96.6	72-148			
LCS (7033101-BS1)		Prepared &	Analyzed:	31-Mar-17				
Benzene 1.91 0.050	mg/kg	2.00		95.7	79.5-124			
Toluene 1.79 0.050	mg/kg	2.00		89.4	75.5-127			
Ethylbenzene 1.79 0.050	mg/kg	2.00		89.3	77.7-125			
Total Xylenes 5.08 0.150	mg/kg	6.00		84.6	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID) 0.0480	mg/kg	0.0500		95.9	72-148			
LCS Dup (7033101-BSD1)		Prepared &	Analyzed:	31-Mar-17				
Benzene 1.87 0.050	mg/kg	2.00		93.4	79.5-124	2.45	6.5	<u> </u>
Toluene 1.75 0.050	mg/kg	2.00		87.3	75.5-127	2.38	7.02	
Ethylbenzene 1.74 0.050	mg/kg	2.00		87.2	77.7-125	2.41	7.83	
Total Xylenes 4.96 0.150	mg/kg	6.00		82.6	70.9-124	2.43	7.78	
Surrogate: 4-Bromofluorobenzene (PID) 0.0491	mg/kg	0.0500		98.1	72-148			

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE.

6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Fax To:

Reported: 11-Apr-17 11:57

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 7032911 - 0	General Prep	o - Organics
-------------------	--------------	--------------

Blank (7032911-BLK1)				Prepared & Anal	yzed: 29-Mar-17	,			
GRO C6-C10	ND	10.0	mg/kg	-	-				
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0	104	25.1-158			
Surrogate: 1-Chlorooctadecane	53.0		mg/kg	50.0	106	26.8-170			
LCS (7032911-BS1)				Prepared & Anal	yzed: 29-Mar-17	,			
GRO C6-C10	222	10.0	mg/kg	200	111	78.6-112			
DRO >C10-C28	223	10.0	mg/kg	200	111	76.7-124			
Total TPH C6-C28	445	10.0	mg/kg	400	111	78.5-117			
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0	115	25.1-158			
Surrogate: 1-Chlorooctadecane	59.8		mg/kg	50.0	120	26.8-170			
LCS Dup (7032911-BSD1)				Prepared & Anal	yzed: 29-Mar-17	,			
GRO C6-C10	221	10.0	mg/kg	200	110	78.6-112	0.749	13	
DRO >C10-C28	220	10.0	mg/kg	200	110	76.7-124	1.25	15.5	
Total TPH C6-C28	440	10.0	mg/kg	400	110	78.5-117	1.00	13.6	
Surrogate: 1-Chlorooctane	57.2		mg/kg	50.0	114	25.1-158			
Surrogate: 1-Chlorooctadecane	58.3		mg/kg	50.0	117	26.8-170			

Batch 7033002 - General Prep - Organics

Blank (7033002-BLK1)				Prepared & Anal	yzed: 30-Mar-17	7	
GRO C6-C10	ND	10.0	mg/kg				
DRO >C10-C28	ND	10.0	mg/kg				
EXT DRO >C28-C35	ND	10.0	mg/kg				
EXT DRO >C28-C36	ND	10.0	mg/kg				
Total TPH C6-C28	ND	10.0	mg/kg				
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0	100	25.1-158	
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0	106	26.8-170	

Cardinal Laboratories

*=Accredited Analyte

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

%REC

Limits

RPD



Analytical Results For:

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE NM, 87110

Analyte

Project: 2C - 14 - 3 10"
Project Number: 1113520-1

Spike

Level

Source

Result

%REC

Reported: 11-Apr-17 11:57

RPD

Limit

Notes

Project Manager: BERNARD BUCKISCH

Fax To:

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

LCS (7033002-BS1)				Prepared & Ana	lyzed: 30-Mar-1	7
GRO C6-C10	186	10.0	mg/kg	200	93.0	78.6-112
DRO >C10-C28	194	10.0	mg/kg	200	97.0	76.7-124
Total TPH C6-C28	380	10.0	mg/kg	400	95.0	78.5-117
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0	106	25.1-158
Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0	107	26.8-170

Les Dup (7055002-B5D1)				r repared & r m	aryzea. 30 mar 17			
GRO C6-C10	193	10.0	mg/kg	200	96.5	78.6-112	3.65	13
DRO >C10-C28	201	10.0	mg/kg	200	101	76.7-124	3.73	15.5
Total TPH C6-C28	394	10.0	mg/kg	400	98.6	78.5-117	3.69	13.6
Surrogate: 1-Chlorooctane	55.4		mg/kg	50.0	111	25.1-158		
Surrogate: 1-Chlorooctadecane	55.6		mg/kg	50.0	111	26.8-170		

Cardinal Laboratories *=Accredited Analyte

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



GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110

Project: 2C - 14 - 3 10" Project Number: 1113520-1

Reported: 11-Apr-17 11:57

Project Manager: BERNARD BUCKISCH

Fax To:

General Chemistry - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch B704020 - General Prep - Wet Chem

Duplicate (B704020-DUP1)	plicate (B704020-DUP1) Source: 1703196-01		Prepared: 04-Apr-17 Analyzed: 06-Apr-17		
% Dry Solids	98.5	%	98.7	0.203	20

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. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 su claim 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.

%REC



Analytical Results For:

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: 2C - 14 - 3 10"

Project Number: 1113520-1

Project Manager: BERNARD BUCKISCH

Spike

Source

Reported: 11-Apr-17 11:57

RPD

Fax To:

Reporting

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B704016 - General Prep - Wet Chem										
Blank (B704016-BLK1)				Prepared: ()4-Apr-17 A	nalyzed: 0	5-Apr-17			
Chloride	ND	10.0	mg/kg wet							
LCS (B704016-BS1)				Prepared: (04-Apr-17 A	analyzed: 0	5-Apr-17			
Chloride	235	10.0	mg/kg wet	250		94.1	85-115			
LCS Dup (B704016-BSD1)				Prepared: (04-Apr-17 A	analyzed: 0	5-Apr-17			
Chloride	235	10.0	mg/kg wet	250		93.9	85-115	0.251	20	

Cardinal Laboratories *=Accredited Analyte

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



Notes and Definitions

M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference

in sample.

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

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Sample Condition
Cook Intact
Yes Yes
No No

CHECKED BY:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By:

Relinquished By:

Time: / 4/5
Date:

Received B

Date: /29//7

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No Add'l Phone #:

bernard.bockisch@ghd.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: CHD Services		BILL TO	ANALYSIS REQUEST
Project Manager: Bernard Buckisch	P.O. #:	#	
Address: 612) Indian School Rd, NE	STE 200 Com	Company: ETC	
	State: No Zip: 87/10 Attn	Attn: Dean Ericson	
Phone #: 505-884-0672 Fax#:	Add	Address:	~gı
Project #: 1//35-20 / Project Owner:	City:		FON
010	State:	e: Zip:	
Project Location:	Pho	Phone #:	30
Sampler Name: Alan Brandon	Fax #:	**	
- 1	MATRIX	PRESERV. SAMPLING	15
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER : DATE TIME	BTEX TPH 80 Chloria
1 5-1113620-1-032917-TP-12-4	2 Xx	34/17 1042	***
12 5-1112520-1-032917-78-13-4	C 2 ×	3/29/17 1105	Y
13 5.1113520-1-032917-714-4	X	3/29/11 1170	× × ×
14 S-11138-20-1-032917-TP-15-4	62 X	3/24/17 1205	X X X
PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be firmled to the annount paid by the client for the	any claim arising whether based in contract or tort	shall be limited to the amount paid by the client	to the
PLEASE NOTE: Liability and Country to Country and Coun	Marcal bos marks in whem seed in the seed	are a small by discount unless made in willing and received by Cardinal within 30 days after completion of the applicable	J the enviloable

Sample Condition
Cool Intact
Yes W Yes
No No

(Intials)

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By:

Time: \(\mu'\)!

Date:
Time:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

bernard. bookisch Gghd. com

Relinquished By:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

July 10, 2017

Bernie Bockish GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: 2C 14 3 10" OrderNo.: 1706G41

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 9 sample(s) on 6/29/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062617-SP-01

 Project:
 2C 14 3 10"
 Collection Date: 6/26/2017 4:30:00 PM

 Lab ID:
 1706G41-001
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: MRA
Chloride	150	30	mg/Kg	20	7/5/2017 11:29:33 PM	32641
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	:: TOM
Diesel Range Organics (DRO)	31	9.6	mg/Kg	1	7/5/2017 2:04:23 PM	32588
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/5/2017 2:04:23 PM	32588
Surr: DNOP	100	70-130	%Rec	1	7/5/2017 2:04:23 PM	32588
EPA METHOD 8015D: GASOLINE RANG	iΕ				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/5/2017 12:07:50 PM	32610
Surr: BFB	106	54-150	%Rec	1	7/5/2017 12:07:50 PM	32610
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 12:07:50 PM	32610
Toluene	ND	0.048	mg/Kg	1	7/5/2017 12:07:50 PM	32610
Ethylbenzene	ND	0.048	mg/Kg	1	7/5/2017 12:07:50 PM	32610
Xylenes, Total	ND	0.096	mg/Kg	1	7/5/2017 12:07:50 PM	32610
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	7/5/2017 12:07:50 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062617-SP-02

 Project:
 2C 14 3 10"
 Collection Date: 6/26/2017 4:33:00 PM

 Lab ID:
 1706G41-002
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	90	30	mg/Kg	20	7/5/2017 11:41:57 PM	32641
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	S			Analyst	t: TOM
Diesel Range Organics (DRO)	340	10	mg/Kg	1	7/5/2017 2:29:16 PM	32588
Motor Oil Range Organics (MRO)	350	50	mg/Kg	1	7/5/2017 2:29:16 PM	32588
Surr: DNOP	104	70-130	%Rec	1	7/5/2017 2:29:16 PM	32588
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/5/2017 1:18:44 PM	32610
Surr: BFB	112	54-150	%Rec	1	7/5/2017 1:18:44 PM	32610
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 1:18:44 PM	32610
Toluene	ND	0.049	mg/Kg	1	7/5/2017 1:18:44 PM	32610
Ethylbenzene	ND	0.049	mg/Kg	1	7/5/2017 1:18:44 PM	32610
Xylenes, Total	ND	0.097	mg/Kg	1	7/5/2017 1:18:44 PM	32610
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	1	7/5/2017 1:18:44 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062617-SP-03

 Project:
 2C 14 3 10"
 Collection Date: 6/26/2017 4:40:00 PM

 Lab ID:
 1706G41-003
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	240	30	mg/Kg	20	7/5/2017 11:54:22 PM	32641
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	:: ТОМ
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/5/2017 3:19:11 PM	32588
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/5/2017 3:19:11 PM	32588
Surr: DNOP	81.3	70-130	%Rec	1	7/5/2017 3:19:11 PM	32588
EPA METHOD 8015D: GASOLINE RANG	iΕ				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/5/2017 2:30:00 PM	32610
Surr: BFB	108	54-150	%Rec	1	7/5/2017 2:30:00 PM	32610
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.023	mg/Kg	1	7/5/2017 2:30:00 PM	32610
Toluene	ND	0.047	mg/Kg	1	7/5/2017 2:30:00 PM	32610
Ethylbenzene	ND	0.047	mg/Kg	1	7/5/2017 2:30:00 PM	32610
Xylenes, Total	ND	0.093	mg/Kg	1	7/5/2017 2:30:00 PM	32610
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	1	7/5/2017 2:30:00 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits Page 3 of 13
ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit		Not Detected at the Reporting Limit	P	Sample pH Not In Range
		Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: S-11135250-062617-SP-04

 Project:
 2C 14 3 10"
 Collection Date: 6/26/2017 4:43:00 PM

 Lab ID:
 1706G41-004
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	210	30	mg/Kg	20	7/6/2017 12:54:43 PM	32655
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/5/2017 3:44:14 PM	32588
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/5/2017 3:44:14 PM	32588
Surr: DNOP	73.0	70-130	%Rec	1	7/5/2017 3:44:14 PM	32588
EPA METHOD 8015D: GASOLINE RAI				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/5/2017 2:53:44 PM	32610
Surr: BFB	107	54-150	%Rec	1	7/5/2017 2:53:44 PM	32610
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 2:53:44 PM	32610
Toluene	ND	0.049	mg/Kg	1	7/5/2017 2:53:44 PM	32610
Ethylbenzene	ND	0.049	mg/Kg	1	7/5/2017 2:53:44 PM	32610
Xylenes, Total	ND	0.097	mg/Kg	1	7/5/2017 2:53:44 PM	32610
Surr: 4-Bromofluorobenzene	102	66.6-132	%Rec	1	7/5/2017 2:53:44 PM	32610

-				
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit		Analyte detected below quantitation limits Page 4 of 13
	ND			Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062717-SP-01

 Project:
 2C 14 3 10"
 Collection Date: 6/27/2017 1:05:00 PM

 Lab ID:
 1706G41-005
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	60	30	mg/Kg	20	7/6/2017 1:56:45 PM	32655
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	:: ТОМ
Diesel Range Organics (DRO)	23	9.5	mg/Kg	1	7/6/2017 11:23:32 AM	32588
Motor Oil Range Organics (MRO)	48	48	mg/Kg	1	7/6/2017 11:23:32 AM	32588
Surr: DNOP	90.4	70-130	%Rec	1	7/6/2017 11:23:32 AM	32588
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/5/2017 3:17:28 PM	32610
Surr: BFB	107	54-150	%Rec	1	7/5/2017 3:17:28 PM	32610
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 3:17:28 PM	32610
Toluene	ND	0.048	mg/Kg	1	7/5/2017 3:17:28 PM	32610
Ethylbenzene	ND	0.048	mg/Kg	1	7/5/2017 3:17:28 PM	32610
Xylenes, Total	ND	0.096	mg/Kg	1	7/5/2017 3:17:28 PM	32610
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	7/5/2017 3:17:28 PM	32610

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank		
	D	Sample Diluted Due to Matrix	E	Value above quantitation range		
	Н	H Holding times for preparation or analysis exceeded J Analyte detected below		Analyte detected below quantitation limits Page 5 of 13		
	ND Not Detected at the Reporting Limit		P	Sample pH Not In Range		
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit		
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified		

Analytical Report Lab Order 1706G41

Date Reported: 7/10/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062717-SP-02

 Project:
 2C 14 3 10"
 Collection Date: 6/27/2017 1:09:00 PM

 Lab ID:
 1706G41-006
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	42	3.0	mg/Kg	2	7/6/2017 2:09:10 PM	32655
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/6/2017 12:39:16 PM	32588
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/6/2017 12:39:16 PM	32588
Surr: DNOP	83.7	70-130	%Rec	1	7/6/2017 12:39:16 PM	32588
EPA METHOD 8015D: GASOLINE RANG	SE .				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/5/2017 5:15:48 PM	32610
Surr: BFB	109	54-150	%Rec	1	7/5/2017 5:15:48 PM	32610
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 5:15:48 PM	32610
Toluene	ND	0.049	mg/Kg	1	7/5/2017 5:15:48 PM	32610
Ethylbenzene	ND	0.049	mg/Kg	1	7/5/2017 5:15:48 PM	32610
Xylenes, Total	ND	0.097	mg/Kg	1	7/5/2017 5:15:48 PM	32610
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	1	7/5/2017 5:15:48 PM	32610

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062717-SP-03

 Project:
 2C 14 3 10"
 Collection Date: 6/27/2017 1:15:00 PM

 Lab ID:
 1706G41-007
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	800	30	mg/Kg	20	7/6/2017 2:21:35 PM	32655
EPA METHOD 8015M/D: DIESEL RANGE	S			Analys	t: TOM	
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/6/2017 1:07:41 PM	32588
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/6/2017 1:07:41 PM	32588
Surr: DNOP	90.5	70-130	%Rec	1	7/6/2017 1:07:41 PM	32588
EPA METHOD 8015D: GASOLINE RANG	iΕ				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/5/2017 5:39:31 PM	32610
Surr: BFB	107	54-150	%Rec	1	7/5/2017 5:39:31 PM	32610
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 5:39:31 PM	32610
Toluene	ND	0.048	mg/Kg	1	7/5/2017 5:39:31 PM	32610
Ethylbenzene	ND	0.048	mg/Kg	1	7/5/2017 5:39:31 PM	32610
Xylenes, Total	ND	0.096	mg/Kg	1	7/5/2017 5:39:31 PM	32610
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	7/5/2017 5:39:31 PM	32610

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 13
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062717-SP-04

 Project:
 2C 14 3 10"
 Collection Date: 6/27/2017 1:20:00 PM

 Lab ID:
 1706G41-008
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	30	mg/Kg	20	7/6/2017 2:33:59 PM	32655
EPA METHOD 8015M/D: DIESEL RAN	S			Analys	t: TOM	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/7/2017 12:25:27 PM	32588
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/7/2017 12:25:27 PM	32588
Surr: DNOP	79.6	70-130	%Rec	1	7/7/2017 12:25:27 PM	32588
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/5/2017 6:03:13 PM	32610
Surr: BFB	107	54-150	%Rec	1	7/5/2017 6:03:13 PM	32610
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 6:03:13 PM	32610
Toluene	ND	0.049	mg/Kg	1	7/5/2017 6:03:13 PM	32610
Ethylbenzene	ND	0.049	mg/Kg	1	7/5/2017 6:03:13 PM	32610
Xylenes, Total	ND	0.097	mg/Kg	1	7/5/2017 6:03:13 PM	32610
Surr: 4-Bromofluorobenzene	99.8	66.6-132	%Rec	1	7/5/2017 6:03:13 PM	32610

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

W Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Lab Order **1706G41**Date Reported: **7/10/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** S-11135250-062717-SP-05

 Project:
 2C 14 3 10"
 Collection Date: 6/27/2017 1:25:00 PM

 Lab ID:
 1706G41-009
 Matrix: SOIL
 Received Date: 6/29/2017 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	59	30	mg/Kg	20	7/6/2017 2:46:24 PM	32655
EPA METHOD 8015M/D: DIESEL RANGI	S			Analys	: TOM	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/7/2017 12:54:02 PM	32588
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/7/2017 12:54:02 PM	32588
Surr: DNOP	75.2	70-130	%Rec	1	7/7/2017 12:54:02 PM	32588
EPA METHOD 8015D: GASOLINE RANG	E				Analys	:: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/5/2017 6:26:50 PM	32610
Surr: BFB	106	54-150	%Rec	1	7/5/2017 6:26:50 PM	32610
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	7/5/2017 6:26:50 PM	32610
Toluene	ND	0.049	mg/Kg	1	7/5/2017 6:26:50 PM	32610
Ethylbenzene	ND	0.049	mg/Kg	1	7/5/2017 6:26:50 PM	32610
Xylenes, Total	ND	0.097	mg/Kg	1	7/5/2017 6:26:50 PM	32610
Surr: 4-Bromofluorobenzene	99.6	66.6-132	%Rec	1	7/5/2017 6:26:50 PM	32610

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 13
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706G41**

10-Jul-17

Client: GHD

Project: 2C 14 3 10"

Sample ID MB-32655 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 32655 RunNo: 44023

Prep Date: 7/6/2017 Analysis Date: 7/6/2017 SeqNo: 1389461 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-32655 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 32655 RunNo: 44023

Prep Date: 7/6/2017 Analysis Date: 7/6/2017 SeqNo: 1389462 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.3 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

D. Commission Mark In Donner

P Sample pH Not In Range

RE Reporting Detection LimitW Sample container temperature is out of limit as specified

Page 10 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706G41**

10-Jul-17

Client: GHD **Project:** 2C 14 3 10"

Surr: DNOP

Sample ID LCS-32609 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 32609 RunNo: 43982 Prep Date: 7/3/2017 Analysis Date: 7/5/2017 SeqNo: 1386463 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 4.7 5.000 93.7 70 130

Sample ID MB-32609 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 32609 RunNo: 43982 Prep Date: 7/3/2017 Analysis Date: 7/5/2017 SeqNo: 1386464 Units: %Rec SPK value SPK Ref Val %REC %RPD Analyte Result LowLimit HighLimit **RPDLimit** Qual

106

130

10.00

Sample ID MB-32588 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: **PBS** Batch ID: 32588 RunNo: 43983 Prep Date: Analysis Date: 7/5/2017 SeqNo: 1387024 Units: mg/Kg 6/30/2017 Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Analyte HighLimit Diesel Range Organics (DRO) ND 10 ND Motor Oil Range Organics (MRO) 50 Surr: DNOP 9.9 10.00 99.3 70 130

Sample ID LCS-32588 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 32588 RunNo: 43983 Analysis Date: 7/5/2017 Prep Date: 6/30/2017 SeqNo: 1387357 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Diesel Range Organics (DRO) 44 10 50.00 0 88.5 73.2 114 Surr: DNOP 5.000 93.8 70 4.7 130

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 11 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706G41

10-Jul-17

Client: GHD Project: 2C 14 3 10"

Sample ID MB-32610 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 32610 RunNo: 43996

Prep Date: 7/3/2017 Analysis Date: 7/5/2017 SeqNo: 1387478 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0

1000 Surr: BFB 1100 105 54 150

Sample ID LCS-32610 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 32610 RunNo: 43996

Analysis Date: 7/5/2017 Prep Date: 7/3/2017 SeqNo: 1387479 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) 5.0 25.00 88.4 76.4 125 Surr: BFB 1200 1000 117 54 150

Sample ID 1706G41-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-11135250-062617-Batch ID: 32610 RunNo: 43996

Prep Date: 7/3/2017 Analysis Date: 7/5/2017 SeqNo: 1387486 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 21 23.74 88.7 77.8 128

Surr: BFB 1200 150 949.7 125 54

SampType: MSD Sample ID 1706G41-002AMSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-11135250-062617-Batch ID: 32610 RunNo: 43996

Analysis Date: 7/5/2017 Prep Date: 7/3/2017 SeqNo: 1387487 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 4.7 23.58 86.3 77.8 128 3.41 20 Surr: BFB 1200 943.4 124 54 150 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 12 of 13

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706G41

10-Jul-17

Client: GHD Project: 2C 14 3 10"

Sample ID MB-32610 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 32610 RunNo: 43996

Analysis Date: 7/5/2017 Prep Date: 7/3/2017 SeqNo: 1387510 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025 Toluene ND 0.050

Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 102 66.6 132

Sample ID LCS-32610 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 32610 RunNo: 43996 Prep Date: 7/3/2017 Analysis Date: 7/5/2017 SeqNo: 1387511 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit 0.025 1.000 0 120 Benzene 0.86 86.2 80 Toluene 0.85 0.050 1.000 0 85.4 80 120 Ethylbenzene 0.84 0.050 0 84.5 80 1.000 120 Xylenes, Total 2.5 0.10 3.000 0 84.9 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 104 66.6 132

Sample ID 1706G41-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Batch ID: 32610 RunNo: 43996 Client ID: S-11135250-062617-

Prep Date: 7/3/2017	Analysis [Date: 7/	5/2017	SeqNo: 1387517			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.023	0.9390	0	87.4	80.9	132			
Toluene	0.82	0.047	0.9390	0	87.7	79.8	136			
Ethylbenzene	0.83	0.047	0.9390	0	88.6	79.4	140			
Xylenes, Total	2.5	0.094	2.817	0	88.5	78.5	142			
Surr: 4-Bromofluorobenzene	0.98		0.9390		105	66.6	132			

Sample ID 1706G41-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Batch ID: 32610 Client ID: S-11135250-062617-RunNo: 43996

Prep Date: 7/3/2017	Analysis D	ate: 7/	5/2017	S	SeqNo: 1	387518	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9625	0	85.2	80.9	132	0.112	20	
Toluene	0.83	0.048	0.9625	0	85.9	79.8	136	0.379	20	
Ethylbenzene	0.83	0.048	0.9625	0	86.0	79.4	140	0.525	20	
Xylenes, Total	2.5	0.096	2.887	0	86.3	78.5	142	0.0435	20	
Surr: 4-Bromofluorobenzene	1.0		0.9625		104	66.6	132	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 13 of 13



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name:	GHD	Work Order Number:	1706G41		RcptNo:	1
Received By:	Sophia Campuzano	6/29/2017 9:15:00 AM		Josephie Brigario	•	
Completed By:	Sophia Campuzano	6/30/2017 2:11:59 PM		Josepher Bryan-	-	
Reviewed By:	M w/solv			77 ° 7		
Neviewed by.	IKV (2/30/V					
Chain of Cus	tody					
1. Custody sea	als intact on sample bottle	s?	Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of (Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the	e sample delivered?		Courier			
<u>Log In</u>						
4. Was an atte	empt made to cool the sar	nples?	Yes 🗹	No 🗆	na 🗆	
5. Were all sar	mples received at a tempe	erature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗌	
6. Sample(s) i	n proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sa	imple volume for indicated	test(s)?	Yes 🗹	No 🗀		
8. Are samples	(except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌		
9. Was presen	vative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials ha	ave zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
11. Were any sa	ample containers received	broken?	Yes 🗆	No 🗹	# of preserved	
40 -			🗖	🖂	bottles checked	
	work match bottle labels? pancies on chain of custo	dv)	Yes 🗸	No 🗀	for pH: (<2 c	r >12 unless noted)
	correctly identified on Ch		Yes 🗹	No 🗆	Adjusted?	
_	nat analyses were request	· ·	Yes 🗹	No 🗆		
	ding times able to be met customer for authorization		Yes 🗸	No 🗆	Checked by:	
	Iling (if applicable) otified of all discrepancies	s with this order?	Yes 🗀	No 🗆	NA 🔽	
;	n Notified:	Date 1				:
By Wh		Via:	∃ eMail □	Phone Tax	☐ In Person	
Regar		VIQ.		Thone rax		1
_	Instructions:					i
17. Additional re						-
18. Cooler Info	ermation					
Cooler N		n Seal Intact Seal No S	Seal Date	Signed By		
1	2.8 Good	Yes				
		::			como en la companya de	

Air Bubbles (Y or N) **ANALYSIS LABORATORY** HALL ENVIRONMENTAL 300 Submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. g/100g//1195 20 4901 Hawkins NE - Albuquerque, NM 87109 1 Jospa Sout Fax 505-345-4107 (AOV-ime2) 07S8 www.hallenvironmental.com (AOV) 808S8 *updated por 8081 Pesticides / 8082 PCB's Anions (F,CI,NO3,NO2,PO4,SO4) RCRA 8 Metals Tel. 505-345-3975 (SMIS 0728 to 0168) e'HAC EDB (Method 504.1) (1.814 bodieM) H9T ORM \ ORO \ ORD) Baros Hat Remarks: BTEX + MTBE + TPH (Gas only) BTEX + MTBE + TMB's (8021) 220 5915 70664 HEAL No. 1000 2008 -009 700--005 **700**-1003 Project Manager: Down's Ch 700-06 (29(17 100 -Steven HERZ Sample Temperature: 2.8 Preservative □ Rush 11135250 しんしいなか J. A. Tum-Around Time: Project Name: Container Type and # 区 Standard 113728-0626728-01 Pacles-1 Sampler: On Ice: Received 5/ Project #: 7113525D-0627729 50-18-11-18-11-18-11-18-03 H175758-062717-5P02 741135250-0272717-5³-63 70-35-062811-36-05 571135252-0626 TAPOY -11135250-062717-5/20/ 10-15-71250-05255111-Sample Request ID □ Level 4 (Full Validation) Chain-of-Custody Record email or Fax#: パパルのパング・シューシュア THIN-415-WOLNEGENE □ Other Matrix Mailing Address: 6/12 If necessary, samply Time Wed17 190 250 QA/QC Package: 630 523 🗆 ЕDD (Туре) 75 Accreditation □ Standard O NELAP Date Client



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

September 18, 2017

Bernie Bockisch GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: 2C 14 OrderNo.: 1709709

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/12/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

DF Date Analyzed

Batch ID

Lab Order: 1709709

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/18/2017

CLIENT: GHD Lab Order: 1709709

Project: 2C 14

Lab ID: 1709709-001 **Collection Date:** 9/7/2017 10:10:00 AM

Client Sample ID: S-11135250-01-090717-MG-TP-16-6" **Matrix:** SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride ND 30 mg/Kg 20 9/15/2017 8:08:19 PM 33876

Lab ID: 1709709-002 **Collection Date:** 9/7/2017 10:45:00 AM

Client Sample ID: S-11135250-01-090717-MG-TP-17-2' Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 100
 30
 mg/Kg
 20
 9/15/2017 8:20:44 PM
 33876

Lab ID: 1709709-003 **Collection Date:** 9/7/2017 11:15:00 AM

Client Sample ID: S-11135250-01-090717-MG-TP-18-2' Matrix: SOIL

Result

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 40
 30
 mg/Kg
 20
 9/15/2017 8:33:08 PM
 33876

PQL Qual Units

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Analyses

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709709

18-Sep-17

Client: GHD Project: 2C 14

Sample ID MB-33876 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 33876 RunNo: 45653

Prep Date: 9/14/2017 Analysis Date: 9/15/2017 SeqNo: 1450182 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-33876 SampType: Ics TestCode: EPA Method 300.0: Anions

Batch ID: 33876 Client ID: LCSS RunNo: 45653

Prep Date: 9/14/2017 Analysis Date: 9/15/2017 SeqNo: 1450183 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual

Chloride 14 1.5 15.00 0 91.6 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- **PQL** Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD		Work Order Number	: 1709709		RcptNo:	1
Received By: Erin	Melendrez	9/12/2017 10:15:00 A	M	une	.	
·	ey Gallegos	9/13/2017 3:23:05 PM		UN.		
Reviewed By: 878	, ,		•	340		
Reviewed by.	Je 047717	1 /				
Chain of Custody						
1. Custody seals intac	t on sample bottles?		Yes 🗌	No 🗆	Not Present	
2. Is Chain of Custody			Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?						
<u>Log In</u>						
	ade to cool the samples	?	Yes 🗹	No 🗆	na 🗆	
5. Were all samples r	eceived at a temperatur	e of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆	
6. Sample(s) in prope	er container(s)?		Yes 🗹	No 🗆		
7. Sufficient sample v	olume for indicated test	(s)?	Yes 🗹	No 🗆		
8. Are samples (excep	ot VOA and ONG) prope	erly preserved?	Yes 🗹	No 🗆		
9. Was preservative a	dded to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have zer	o headspace?		Yes 🗌	No 🗀	No VOA Vials 🗹	
11. Were any sample	containers received bro	ken?	Yes	No 🗹	H of proposed	
			_		# of preserved bottles checked	
12. Does paperwork m			Yes 🗹	No ∐	for pH: (<2 o	r >12 unless noted)
13. Are matrices correct	s on chain of custody) atly identified on Chain o	of Custody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what anal			Yes 🗹	No 🗌		
15. Were all holding tin			Yes 🗹	No 🗆	Checked by:	
(If no, notify custon	ner for authorization.)				<u> </u>	
Special Han <u>dling (</u>	(if annlicable)					
16. Was client notified		this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notifi	ed:	Date				
By Whom:	Same and the same	Via:	eMail [Phone Fax	☐ In Person	
Regarding:						
Client Instruc	tions:					
17. Additional remarks	s:					
18. Cooler Information	<u>en</u>					
Cooler No Te	mp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1 5.1	Good Y	es		J	l	

Standard C Rush Project Name: Standard C Rush	Cand of Fax#: Decking the Control of Fax#: Decking the Control of Fax#: Decking the Cand of Ca	Suissasoringentus TRIB. E. Pre Soil Jac ICE -001 Suissasoringentus TRIB. E. Pre Soil Jac ICE -002 Suissasoringentus TRIB. E. Pre Soil Jac ICE -002 Suissasoringentus TRIB. E. Pre Soil Jac ICE -002	Recorded by: Re
87110 87110	evel 4 (Fu	2450-01-0252 82-10-0252 83-10-0252	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 26, 2018

Bernie Bockisch GHD 6121 Indian School Road, NE #200

Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: 2C14 OrderNo.: 1802935

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 11 sample(s) on 2/16/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1802935

Date Reported: 2/26/2018

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1802935

Project: 2C14

GHD

CLIENT:

Lab ID: 1802935-001 **Collection Date:** 2/13/2018 12:55:00 PM

Client Sample ID: S1135250-01-021318-JP-TP-19-8 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	590	30	mg/Kg	20	2/22/2018 11:31:00	O AM 36659
EPA METHOD 8015M/D: DIESEL RAN	;			Ana	alyst: TOM	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/20/2018 12:43:3	1 PM 36598
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	2/20/2018 12:43:3	1 PM 36598
Surr: DNOP	99.9	70-130	%Rec	1	2/20/2018 12:43:3	1 PM 36598
EPA METHOD 8015D: GASOLINE RAM	NGE				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/19/2018 1:17:45	PM 36571
Surr: BFB	86.9	15-316	%Rec	1	2/19/2018 1:17:45	PM 36571

Lab ID: 1802935-002 **Collection Date:** 2/13/2018 1:50:00 PM

Client Sample ID: S1135250-01-021318-JP-TP-20-8 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	950	30	mg/Kg	20	2/22/2018 12:08:13	3 PM 36659
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	}			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/20/2018 1:08:01	PM 36598
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/20/2018 1:08:01	PM 36598
Surr: DNOP	91.5	70-130	%Rec	1	2/20/2018 1:08:01	PM 36598
EPA METHOD 8015D: GASOLINE RA	NGE				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/19/2018 1:41:24	PM 36571
Surr: BFB	86.2	15-316	%Rec	1	2/19/2018 1:41:24	PM 36571

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1802935

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/26/2018

CLIENT: GHD Lab Order: 1802935

Project: 2C14

Lab ID: 1802935-003 **Collection Date:** 2/14/2018 1:45:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-21 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	260	30	mg/Kg	20	2/22/2018 12:20:37	7 PM 36659
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	}			Ana	alyst: TOM
Diesel Range Organics (DRO)	98	10	mg/Kg	1	2/20/2018 4:48:28	PM 36598
Motor Oil Range Organics (MRO)	190	51	mg/Kg	1	2/20/2018 4:48:28	PM 36598
Surr: DNOP	85.6	70-130	%Rec	1	2/20/2018 4:48:28	PM 36598
EPA METHOD 8015D: GASOLINE RANG	E				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/19/2018 2:05:08	PM 36571
Surr: BFB	83.7	15-316	%Rec	1	2/19/2018 2:05:08	PM 36571

Lab ID: 1802935-004 **Collection Date:** 2/14/2018 1:48:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-23 Matrix: MEOH (SOIL)

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	1700	75	mg/Kg	50	2/16/2018 12:27:40	PM 36567
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Ana	alyst: AG
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/16/2018 1:02:36	PM s49191
Surr: BFB	122	70-130	%Rec	1	2/16/2018 1:02:36	PM s49191
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	}			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/16/2018 11:13:56	6 AM 36561
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/16/2018 11:13:56	6 AM 36561
Surr: DNOP	97.6	70-130	%Rec	1	2/16/2018 11:13:56	6 AM 36561

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order: 1802935

Date Reported: 2/26/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1802935

Project: 2C14

Lab ID: 1802935-005 **Collection Date:** 2/14/2018 1:50:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-24 Matrix: MEOH (SOIL)

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	150	30	mg/Kg	20	2/16/2018 11:50:23	7 AM 36567
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Ana	alyst: AG
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/16/2018 1:25:26	PM s49191
Surr: BFB	123	70-130	%Rec	1	2/16/2018 1:25:26	PM s49191
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Ana	alyst: TOM
Diesel Range Organics (DRO)	18	9.9	mg/Kg	1	2/16/2018 11:36:03	3 AM 36561
Motor Oil Range Organics (MRO)	54	49	mg/Kg	1	2/16/2018 11:36:03	3 AM 36561
Surr: DNOP	102	70-130	%Rec	1	2/16/2018 11:36:03	3 AM 36561

Lab ID: 1802935-006 **Collection Date:** 2/14/2018 1:52:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-25 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	120	30	mg/Kg	20	2/22/2018 12:33:02	2 PM 36659
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	}			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/20/2018 5:37:14	PM 36598
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/20/2018 5:37:14	PM 36598
Surr: DNOP	88.4	70-130	%Rec	1	2/20/2018 5:37:14	PM 36598
EPA METHOD 8015D: GASOLINE RA	ANGE				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/19/2018 2:28:55	PM 36571
Surr: BFB	85.4	15-316	%Rec	1	2/19/2018 2:28:55	PM 36571

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1802935

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/26/2018

CLIENT: GHD Lab Order: 1802935

Project: 2C14

Lab ID: 1802935-007 **Collection Date:** 2/14/2018 1:55:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-27 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	240	30	mg/Kg	20	2/22/2018 12:45:27	7 PM 36659
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	3			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/20/2018 2:45:53	PM 36598
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/20/2018 2:45:53	PM 36598
Surr: DNOP	89.0	70-130	%Rec	1	2/20/2018 2:45:53	PM 36598
EPA METHOD 8015D: GASOLINE RANG	E				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/19/2018 2:52:40	PM 36571
Surr: BFB	86.4	15-316	%Rec	1	2/19/2018 2:52:40	PM 36571

Lab ID: 1802935-008 **Collection Date:** 2/14/2018 2:00:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-28 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	650	30	mg/Kg	20	2/22/2018 12:57:51	1 PM 36659
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	;			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/20/2018 3:10:29	PM 36598
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/20/2018 3:10:29	PM 36598
Surr: DNOP	78.1	70-130	%Rec	1	2/20/2018 3:10:29	PM 36598
EPA METHOD 8015D: GASOLINE RAN	GE				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/19/2018 4:50:57	PM 36571
Surr: BFB	86.2	15-316	%Rec	1	2/19/2018 4:50:57	PM 36571

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1802935

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/26/2018

CLIENT: GHD Lab Order: 1802935

Project: 2C14

Lab ID: 1802935-009 **Collection Date:** 2/14/2018 2:02:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-29 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	630	30	mg/Kg	20	2/22/2018 1:10:16	PM 36659
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	}			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/20/2018 3:34:54	PM 36598
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/20/2018 3:34:54	PM 36598
Surr: DNOP	72.9	70-130	%Rec	1	2/20/2018 3:34:54	PM 36598
EPA METHOD 8015D: GASOLINE RAN	GE				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/19/2018 5:14:21	PM 36571
Surr: BFB	89.4	15-316	%Rec	1	2/19/2018 5:14:21	PM 36571

Lab ID: 1802935-010 **Collection Date:** 2/14/2018 2:05:00 PM

Client Sample ID: S1135250-01-021418-MG-TP-30 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	410	30	mg/Kg	20	2/22/2018 1:22:40	PM 36659
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/20/2018 3:59:41	PM 36598
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/20/2018 3:59:41	PM 36598
Surr: DNOP	82.8	70-130	%Rec	1	2/20/2018 3:59:41	PM 36598
EPA METHOD 8015D: GASOLINE RAI	NGE				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/19/2018 5:37:56	PM 36571
Surr: BFB	89.7	15-316	%Rec	1	2/19/2018 5:37:56	PM 36571

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1802935

Date Reported: 2/26/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1802935

Project: 2C14

Lab ID: 1802935-011 **Collection Date:** 2/15/2018 11:52:00 AM

Client Sample ID: S1135250-01-021518-MG-TP-32 Matrix: SOIL

Cheff Sample 1D. 51133230-01-021316	5-MO-11-32		Ma	IIIX. SO	IL.	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: CJS
Chloride	270	30	mg/Kg	20	2/22/2018 1:59:55	PM 36659
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	5			Ana	alyst: TOM
Diesel Range Organics (DRO)	34	9.4	mg/Kg	1	2/20/2018 4:24:04	PM 36598
Motor Oil Range Organics (MRO)	69	47	mg/Kg	1	2/20/2018 4:24:04	PM 36598
Surr: DNOP	70.4	70-130	%Rec	1	2/20/2018 4:24:04	PM 36598
EPA METHOD 8015D: GASOLINE RANG	iΕ				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/19/2018 6:01:28	PM 36571
Surr: BFB	88.3	15-316	%Rec	1	2/19/2018 6:01:28	PM 36571

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1802935

26-Feb-18

Client: GHD Project: 2C14

Sample ID MB-36567 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 36567 RunNo: 49185

Prep Date: 2/16/2018 Analysis Date: 2/16/2018 SeqNo: 1587341 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-36567 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36567 RunNo: 49185

Prep Date: 2/16/2018 Analysis Date: 2/16/2018 SeqNo: 1587342 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result PQL HighLimit %RPD Qual

Chloride 14 1.5 15.00 0 92.2 110

Sample ID MB-36659 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 36659 RunNo: 49283

Prep Date: Analysis Date: 2/22/2018 SeqNo: 1591817 Units: mg/Kg 2/21/2018

Result SPK value SPK Ref Val %REC LowLimit Analyte **PQL** HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-36659 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36659 RunNo: 49283

Prep Date: 2/21/2018 Analysis Date: 2/22/2018 SeqNo: 1591818 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

95.1 Chloride 14 1.5 15.00 0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 7 of 10

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1802935

26-Feb-18

Client:	GHD
Project:	2C14

Sample ID LCS-36561	SampType: LCS		Test	Code: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 3656	1	R	unNo: 4	9187				
Prep Date: 2/16/2018	Analysis Date: 2/16	/2018	S	eqNo: 1	586297	Units: mg/K	g		
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44 10	50.00	0	88.1	70	130			
Surr: DNOP	4.2	5.000		84.3	70	130			
Sample ID MB-36561	SampType: MBLI	K	Test	Code: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 3656	1	R	unNo: 4 9	9187				
Prep Date: 2/16/2018	Analysis Date: 2/16	/2018	S	eqNo: 1	586298	Units: mg/K	g		
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	9.8	10.00		98.5	70	130			
Sample ID LCS-36598	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	B	8	R	unNo: 4	9233				
Oliotic ID. LOGO	Batch ID: 36598								
Prep Date: 2/19/2018	Batch ID: 36598 Analysis Date: 2/20		s	eqNo: 1	588512	Units: mg/K	g		
	Analysis Date: 2/20	/2018	S SPK Ref Val	•	588512 LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Prep Date: 2/19/2018 Analyte	Analysis Date: 2/20	/2018		•		J	•	RPDLimit	Qual
Prep Date: 2/19/2018 Analyte	Analysis Date: 2/20, Result PQL S	//2018 SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	•	RPDLimit	Qual
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO)	Analysis Date: 2/20, Result PQL S 47 10	50.00 5.000	SPK Ref Val 0	%REC 93.3 90.7	LowLimit 70 70	HighLimit	%RPD		Qual
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP	Analysis Date: 2/20, Result PQL S 47 10 4.5	50.00 5.000	SPK Ref Val 0 Test	%REC 93.3 90.7	LowLimit 70 70 PA Method	HighLimit 130 130	%RPD		Qual
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-36598	Analysis Date: 2/20 Result PQL S 47 10 4.5 SampType: MBLI	50.00 5.000 K	SPK Ref Val 0 Test	%REC 93.3 90.7 Code: El	70 70 PA Method	HighLimit 130 130	%RPD		Qual
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-36598 Client ID: PBS Prep Date: 2/19/2018 Analyte	Analysis Date: 2/20 Result PQL S 47 10 4.5 SampType: MBLI Batch ID: 36598 Analysis Date: 2/20	50.00 5.000 K 8	SPK Ref Val 0 Test	%REC 93.3 90.7 Code: EF unNo: 49 eqNo: 19	70 70 PA Method	HighLimit 130 130 8015M/D: Die	%RPD		Qual
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-36598 Client ID: PBS Prep Date: 2/19/2018	Analysis Date: 2/20 Result PQL S 47 10 4.5 SampType: MBLI Batch ID: 36598 Analysis Date: 2/20	50.00 5.000 K 8	SPK Ref Val 0 Test R S	%REC 93.3 90.7 Code: EF unNo: 49 eqNo: 19	20 LowLimit 70 70 70 PA Method 9233 588513	HighLimit 130 130 8015M/D: Die Units: mg/K	%RPD	organics	
Prep Date: 2/19/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-36598 Client ID: PBS Prep Date: 2/19/2018 Analyte	Analysis Date: 2/20 Result PQL S 47 10 4.5 SampType: MBLI Batch ID: 36596 Analysis Date: 2/20 Result PQL S	50.00 5.000 K 8	SPK Ref Val 0 Test R S	%REC 93.3 90.7 Code: EF unNo: 49 eqNo: 19	20 LowLimit 70 70 70 PA Method 9233 588513	HighLimit 130 130 8015M/D: Die Units: mg/K	%RPD	e Organics	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Page 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **1802935**

26-Feb-18

Client: GHD Project: 2C14

Sample ID MB-36571 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 36571 RunNo: 49215

Prep Date: 2/16/2018 Analysis Date: 2/19/2018 SeqNo: 1587995 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 870 1000 86.6 15 316

Sample ID LCS-36571 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 36571 RunNo: 49215

Prep Date: 2/16/2018 Analysis Date: 2/19/2018 SeqNo: 1587996 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 29
 5.0
 25.00
 0
 115
 75.9
 131

 Surr: BFB
 960
 1000
 95.5
 15
 316

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 1802935

26-Feb-18

Client: GHD Project: 2C14

Surr: BFB

Sample ID rb SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **PBS** Batch ID: s49191 RunNo: 49191

Prep Date: Analysis Date: 2/16/2018 SeqNo: 1586433 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 570 500.0 113 70 130

TestCode: EPA Method 8015D Mod: Gasoline Range Sample ID 2.5ug gro Ics SampType: LCS

Client ID: LCSS Batch ID: s49191 RunNo: 49191

530

Prep Date: Analysis Date: 2/16/2018 SeqNo: 1586436 Units: mg/Kg

500.0

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 25.00 99.6 70 130

107

70

130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

GHD Client Name: Work Order Number: 1802935 RcptNo: 1 Received By: Sophia Campuzano 2/16/2018 9:30:00 AM anne Am **Anne Thorne** 2/16/2018 9:50:28 AM Completed By: 21/6/13 Reviewed By: Chain of Custody No 🗌 Yes 🔽 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In NA 🗆 No 🔲 Was an attempt made to cool the samples? Yes 🔽 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 Yes 🗸 No 🗌 5. Sample(s) in proper container(s)? Yes 🔽 No 🗌 6 Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No Yes 🗌 No 🔽 NA 🗌 8. Was preservative added to bottles? Yes No 🗌 No VOA Vials 9. VOA vials have zero headspace? Yes 🗌 No 🗸 10. Were any sample containers received broken? # of preserved bottles checked No 🗔 11. Does paperwork match bottle labels? Yes 🗸 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 12. Are matrices correctly identified on Chain of Custody? No 13. Is it clear what analyses were requested? Yes 🗸 No 🗔 Checked by: 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🔽 15. Was client notified of all discrepancies with this order? Yes 🗔 No 🗀 Person Notified: Date: By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition | Seal Intact | Seal No Seal Date Signed By 1.0 Good

Client	540		وبني ع	□ Standard	□ Rush				I	A	Y E	> 4	2 Y	N C	HALL ENVIRONMENTAL	E S	- 2
				Project Name:	di		3	B	3	A www	www hallenvironmental com	T dund	S letter	3	5	2	,
Mailing	Mailing Address: 612.		Indian School Red NE	20	Ŧ		4	4901 Hawkins NE	awkin	N N	- Albi	Albuquerque, NM 87109	aue. N	IM 87	109		
Suite Phone	200 A	188 (31.7	Project #.	10 - 05			Tel. 505-345-3975	5-345	3975	1.7	Fax 505-345-4107 ysis Request	5-345 sques	5-410 at			
emailo	r Fax#.	Berna	email or Fax#. Bernard. Bock Sch Cald God Project Manager	Project Mana	ger:					L		-	H			E	
QA/QC Packa □ Standard	QA/QC Package: ☐ Standard		Level 4 (Full Validation)	Bern	ry	Bockisch				(SMIS		2 / 1 / 1	Savia				
Accreditation	itation	P.		Sampler: 58,	P.MG				_			CANA	zanc			00	
O NELAP	AP	□ Other		On Ice:	X Yes	□ No	-	-	_		_		3/9	(A	-	5	
C EDD (Type)	(Type)			Sample Temperature:	perature: 1.0		_	1	_	_	_			44.0		7	Çar
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MT	aeros Hgī	rtteM) H9T	nteM) 803 FBM s (831	RCRA 8 Me	D, F) anoinA	8081 Pestio	m92) 07S8	·	H209	Air Bubbles
2-13-8	1255	1:05	5-11135250-01-021318-IP-7F-18-18-51-55-57-4-72	Shus Shetter	ICE	92		X							_	×	
81-21-2	1350	- -	5-11133250-01-02587P-TP-20-8 402 6-169 Jac	to 1 Glass Jac	371	702		X							^	X	T
3/4/8	1345	S	ちに2000 ひらは1年8月17771	4		502		X							^	~	
	1348		F18555-61-03418-46-TP-23	Mak Lit	March	100		X		Ξ,					X	X	
	135t		SWISSISS-OF OUTHERNIETS-24 MEGHET	Musky		25		X		4					^	X	
	1352		5-1185256-61-021418-416-TP-25			de		X							X		
	1355		STHISSORD OF GAMES ME-TP. 27			102		X							1	V	
	1466		5-1135-36-01-021418,116-TP-28			10%		X							1	V	
	1402		S-1135350 BY CRIHIBALE TP-29			52		X						Д	^	V	
	5941		S-M3SASS-01-02418-AL-TP-30			2010		X		×					^		
2/15/18	1152	- 7	5-417-8/16-10-6222811-6			112		X							X		
	1		JE-911/-87/100-10-050552111-6	1		+ Araminetty		1					H		1	1	
2/8/K	Time:	Relinquignes by		Received		2/14/8 1430	Remarks	is:		rush	5	1	8	10-	2	74	
Date ()		Relinging	West of the state	Received by:	Gourier	ozlielis agso	4	6	analysis	\$		results	7	Ó	7.68	2017	1



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 02, 2018

Bernie Bockisch GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: 2C-14-3 OrderNo.: 1804D62

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/27/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **1804D62**Date Reported: **5/2/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1804D62

Project: 2C-14-3

Lab ID: 1804D62-001 **Collection Date:** 4/25/2018 1:32:00 PM

Client Sample ID: S-11135250-1-42518-BB-TP33 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	2000	75	mg/Kg	50	5/1/2018 11:54:58	AM 37867
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	3			Ana	alyst: TOM
Diesel Range Organics (DRO)	13	10	mg/Kg	1	5/1/2018 10:50:37	AM 37865
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	5/1/2018 10:50:37	AM 37865
Surr: DNOP	71.6	70-130	%Rec	1	5/1/2018 10:50:37	AM 37865
EPA METHOD 8015D: GASOLINE RANG	iΕ				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/30/2018 12:49:40	PM 37835
Surr: BFB	92.2	15-316	%Rec	1	4/30/2018 12:49:40	PM 37835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804D62**

02-May-18

Client: GHD Project: 2C-14-3

Sample ID MB-37867 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 37867 RunNo: 50935

Prep Date: 4/30/2018 Analysis Date: 5/1/2018 SeqNo: 1653639 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-37867 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 37867 RunNo: 50935

Prep Date: 4/30/2018 Analysis Date: 5/1/2018 SeqNo: 1653640 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.1 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: 1804D62

02-May-18

Client: GHD Project: 2C-14-3

Sample ID LCS-37865 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics LCSS Client ID: Batch ID: 37865 RunNo: 50940 Prep Date: 4/30/2018 Analysis Date: 5/1/2018 SeqNo: 1654117 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 44 50.00 0 87.6 70 130 Surr: DNOP 5.000 78.0 70 3.9 130

Sample ID MB-37865 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 37865 Client ID: PBS RunNo: 50940 Prep Date: 4/30/2018 Analysis Date: 5/1/2018 SeqNo: 1654118 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.2 10.00 82.1 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 3 of 4

GHD

Client:

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804D62**

02-May-18

Sample ID MB-37835 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range RunNo: 50929	Project:	2C-14-3										
Prep Date 4/27/2018	Sample ID	MB-37835	SampType	e: ME	BLK	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte	Client ID:	PBS	Batch ID): 37	835	R	unNo: 50	0929				
Sample D	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653363	Units: mg/K	(g		
Sample ID LCS-37835 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Papel ID LCS-37835 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Papel ID LCS-37835 SampType: LCS SagNt Sag	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample D LCS-37835 Samp F LC S Samp F LC Samp F LC	_	ge Organics (GRO)	ND	5.0								
Client ID: LCSS	Surr: BFB		950		1000		94.9	15	316			
Prep Date:	Sample ID	LCS-37835	SampType	e: LC	s	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte	Client ID:	LCSS	Batch ID): 37	835	R	unNo: 50	0929				
Sample D	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653364	Units: mg/K	(g		
Sample ID 1804D62-001AMS Sample ID 1804D62-001AMSD	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample D 1804D62-001AMS	_	ge Organics (GRO)	_	5.0	25.00	0						
Client ID: S-11135250-1-42518 Batch ID: 37835 RunNo: 50929 SeqNo: 1653368 Units: mg/Kg	Surr: BFB		1100		1000		107	15	316			
Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653368 Units: mg/Kg	Sample ID	1804D62-001AMS	SampType	e: MS	3	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte	Client ID:	S-11135250-1-425	18 Batch ID): 37	835	R	unNo: 50	0929				
Gasoline Range Organics (GRO) 26 5.0 24.88 0 104 77.8 128 Surr: BFB 1000 995.0 105 15 316 Sample ID 1804062-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: S-11135250-1-42518 Batch ID: 37835 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653369 Units: mg/kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit MRPD RPDLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.41 0 98.5 77.8 128 6.94 20 Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-37842	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653368	Units: mg/K	ζg		
Sumr: BFB 1000 995.0 105 15 316 Sample ID 1804D62-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: S-11135250-1-42518 Batch ID: 37835 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653369 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.41 0 98.5 77.8 128 6.94 20 Surr: BFB 1000 976.6 104 15 316 0 0 Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID 1804D62-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: \$-11135250-1-42518 Batch ID: 37835 RunNo: \$0929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653369 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.41 0 98.5 77.8 128 6.94 20 Sumr: BFB 1000 976.6 104 15 316 0 0 0 Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range RunNo: 50929 50929 Fee Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec RunNo: 50929 Fee Date: 4/27/2018 SegNo: 1653373 Units: 9820 Fee Date: 4/27/2018 RunNo: 50929 Fee Date: 4/27/2018 SegNo: 1653373 Units: 9820 Fee Date: 4/27/2018	_	ge Organics (GRO)		5.0		0						
Client ID: S-11135250-1-42518 Batch ID: 37835 RunNo: 50929	Surr: BFB		1000		995.0		105	15	316			
Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653369 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.41 0 98.5 77.8 128 6.94 20 Surr: BFB 1000 976.6 104 15 316 0 0 Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 37842 RunNo: 50929 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 37842 <	Sample ID	1804D62-001AMS	D SampType	e: MS	SD	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte	Client ID:	S-11135250-1-425	18 Batch ID): 37	835	R	unNo: 50	0929				
Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653369	Units: mg/K	(g		
Surr: BFB 1000 976.6 104 15 316 0 0 Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 880 1000 87.7 15 316 TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual			Result F	PQL	SPK value	SPK Ref Val	%REC		HighLimit	%RPD	RPDLimit	Qual
Sample ID MB-37842 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 880 1000 87.7 15 316 316 Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Range Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	_	ge Organics (GRO)		4.9		0			-			
Client ID: PBS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 880 1000 87.7 15 316 TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Surr: BFB		1000		976.6		104	15	316	0	0	
Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653372 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 880 1000 87.7 15 316 <td>Sample ID</td> <td>MB-37842</td> <td>SampType</td> <td>e: ME</td> <td>BLK</td> <td>Tes</td> <td>Code: El</td> <td>PA Method</td> <td>8015D: Gaso</td> <td>line Rang</td> <td>е</td> <td></td>	Sample ID	MB-37842	SampType	e: ME	BLK	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 880 1000 87.7 15 316<	Client ID:	PBS	Batch ID): 37	842	R	unNo: 50	0929				
Surr: BFB 880 1000 87.7 15 316 Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653372	Units: %Re	C		
Sample ID LCS-37842 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID: LCSS Batch ID: 37842 RunNo: 50929 Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Surr: BFB		880		1000		87.7	15	316			
Prep Date: 4/27/2018 Analysis Date: 4/30/2018 SeqNo: 1653373 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Sample ID	LCS-37842	SampType	e: LC	s	Tes	Code: El	PA Method	8015D: Gaso	line Rang	е	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Client ID:	LCSS	Batch ID): 37 8	842	R	unNo: 50	0929				
·	Prep Date:	4/27/2018	Analysis Date	e: 4/	30/2018	S	eqNo: 10	653373	Units: %Red	C		
	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Surr: BFB		1100		1000		106	15				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

D. Consulta III Not In Donos

Page 4 of 4

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD	Work Order Numb	er: 1804D62	-	RcptNo:	1
			11 01 1	en geraal van de komen. Negaria	
Received By: Erin Melendrez	4/27/2018 9:00:00 A	M	Mirus G		
Completed By: Michelle Garcia	4/27/2018 9:23:08 A	M	Mirel G	brue	
Reviewed By:	त ज्यादि	10 mg - 10 mg	Territoria de la companya della companya della companya de la companya della comp		
MW 4/27/18					-
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
<u>Log In</u>				'w	
3. Was an attempt made to cool the samples	s?	Yes 🗹	No 🗆	NA 🗀	
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗆		
6. Sufficient sample volume for indicated test	(s)?	Yes 🗸	No 🗆		
7. Are samples (except VOA and ONG) propo	erly preserved?	Yes 🗸	No 🗌	·	•
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	•
9. VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials ✓	
10. Were any sample containers received bro	ken?	Yes	No 🗹 [
				# of preserved bottles checked \ ,	1/8
11. Does paperwork match bottle labels?		Yes 🗹	No 🗆	for pH:	
(Note discrepancies on chain of custody)					>12 unless noted)
2. Are matrices correctly identified on Chain of	of Custody?	Yes ✓	No 🗀	mayusieu! —	
13. Is it clear what analyses were requested?14. Were all holding times able to be met?	•	Yes ☑ Yes ☑	No 🗆	Checked by:	
(If no, notify customer for authorization.)		Yes 🗹	No 🗀 📗	- Checked by	
Special Handling (if applicable)	en e		•		
15. Was client notified of all discrepancies wit	h this order?	Yes 🗌	No 🗔	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail Pr	none Fax	☐ In Person	•
Regarding:			TONO: L. T. LIX		
Client Instructions:		*****		:	
16. Additional remarks:					
17. <u>Cooler Information</u>				•	
2	Seal Intact Seal No	Seal Date	Signed By		•
	es	<u></u>			

	_ ≿	•							(N ₂	<u> </u>) 8 0	ddu8 ai	7	+	-			-	-	+				-			
	HALL ENVIKONMENTAL ANALYSTS LABORATORY															L	1										ort.
		,	6					<u>a'c</u>	~~		10	כיורומים		_		<u> </u>					-		<u> </u>	-			tical rep
	ΣΟ	, ,	Albuquerque, NM 87109	107						_		95) 0728		+-		-			+		-	-	<u> </u>	-	-		e analy
(ברים ברים		Σ	505-345-4107	est							() 809Z8	Щ.		+-	+	t			-					_		d on th
	Y	nents	erdne	505-3	Requ		CB,2	32 F	08 /	səp	sticio	9 G 18 08	3	t		1.			1							•	, notate
	> \ Z	ironr	andne	Fax	sis	(†C	os,₄ó	ط ^{ن۲} (οN'ε	ON'	F,CI,) snoin/]		clearly
	" ≥	www.hallenvironmental.com	- Alt		na							<u>,</u> 8 АЯЭЯ		\downarrow		_											will be
:	ANAL	i ķ. ¥.	R	3975			(SN					3) a'HAc		\bot	_		-		_			_			_		ed data
-		¦	4901 Hawkins NE	Tel. 505-345-3975			S/c					M) H97 		+		╂	+	+	+			_			-		contract
	7 [1 Ha	505		(0)						08 Hq1				+	+		+	╁		+					y sub-c
			490	<u>le</u>								+ X∃TE	_1.			T		+	 	+					arks:		lity. An
						(1208)	s,g	MT -	+ ∃8	H	+ X3TE	1												Remarks:		possibil
									219																	8	of this
	Q							-	2			ON Co	1	3										٠.			notice
	支						‡	1	<i>k</i>			FIEAL NO.		Ĭ											l	1/2	irves as
	18						Z	KANTALIN	2 ≥																	Date Date	This se
	lsh (0		77	, /,	∨ -			<u> </u>	it.	+	+		┧			1					4.20.18		fories.
	Krush 48 HOJZ			l l			Boutself	' '	1 €	le:		Preservative Type	774														labora
Time			ņ		Ž,	ger:		5		eratt		Pres T	7													i	redited
Turn-Around Time:	Standard	Project Name:	<u>.</u>	\ (11155250	/ana	BECAMA	6	Sampier: Dela A	Sample Temperature:		d#	2												Jane by:	$ \cdot \setminus$	her acc
n-Arc	Stan	ject N	Ì	Project #:		ject N	W	` .	Sampier: 🗘 On loe:	nple		Container Type and #	70h												Received by	Received by:	ed to of
<u> Tu</u>	P	Pro		Pro		Pro	لملا	1	Sag	Sar		ŭ <u>₹</u>	X	_						_					§ V	Rece	ontract
_						$ \overset{\circ}{\mathcal{L}} $	و	(101)				₽	55-11135-85-1-4268-183-1833												0		ogns ec
ord)CH	† 					uest	586		÷										(.)		ıl may
ec	J					3773	× 10.	Š				Redi	7	· .											2		nmenta
×	IN		۱ _۷ ۷			7777	U/ F	<u>+</u>				ble	X												Q		Enviro
po	53		74		R	200	9	Level 4 (rull valluation)				Sample Request ID	1135						-						2	<i>[</i> \ \	to Hall
ns	DI		ON FORE		00	₿.			ler		_			1		-	\perp	<u> </u>		-	+				hed by	wished by	pmittec
1 -C	CHO SECULCES TAL.		٥		186	200			□ Other			Matrix	705									:			Reimpished by:	Relinquished by:	ns səlet
9	06		ess.		26-26	区	je:					······································		+	+	-	+	╁╴		+	+			<u> </u>	<i>8</i> 20		ry San
Chain-of-Custody Record	き		Mailing Address.	,	Phone #: 56-684-067	email or Fax#: 1352~44D, Bourschole M. Project Manag	QA/QC Package:	raid Totion	4P	□ EDD (Type)		Time	(33)		<u>.</u>										Time: 4:58	Date: Time:	If necessary sapples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
S	Client:		ailing		Jone	nail o	VQC F	Appropries		EDD		Date													Date: Alabelia	tz ei	=
	Ö		≥		🛅	e	à [] `	[□				BISCIP		I]					Date:	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 08, 2018

Alan Brandon GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: 2C-14 OrderNo.: 1808249

Dear Alan Brandon:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/4/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1808249

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/8/2018 **CLIENT: GHD** Lab Order: 1808249 **Project:** 2C-14 **Collection Date:** 8/3/2018 10:35:00 AM Lab ID: 1808249-001 Client Sample ID: S-11135250-01-080318-MG-SW-34-2' Matrix: SOIL PQL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 170 30 8/6/2018 10:03:15 AM 39600 mg/Kg Lab ID: 1808249-002 **Collection Date:** 8/3/2018 10:39:00 AM Client Sample ID: S-11135250-01-080318-MG-SW-35-2' Matrix: SOIL PQL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 130 30 mg/Kg 20 8/6/2018 10:15:40 AM 39600 Lab ID: 1808249-003 **Collection Date:** 8/3/2018 10:45:00 AM Client Sample ID: S-11135250-01-080318-MG-SW-36-2' Matrix: SOIL POL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 140 30 mg/Kg 8/6/2018 10:28:04 AM 39600 1808249-004 **Collection Date:** 8/3/2018 10:52:00 AM Lab ID: Client Sample ID: S-11135250-01-080318-MG-SW-37-2' Matrix: SOIL **Analyses** Result **POL Qual Units** DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 30 130 mg/Kg 20 8/6/2018 10:40:29 AM 39600 Lab ID: 1808249-005 **Collection Date:** 8/3/2018 10:58:00 AM Client Sample ID: S-11135250-01-080318-MG-SW-38-2 Matrix: SOIL **Analyses** Result PQL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

30

160

Qualifiers:

Chloride

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Analyte detected in the associated Method Blank

8/6/2018 10:52:53 AM

39600

Page 1 of 2

- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

mg/Kg

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1808249

08-Aug-18

Client: GHD Project: 2C-14

Sample ID MB-39600 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 39600 RunNo: 53230

Prep Date: **8/6/2018** Analysis Date: **8/6/2018** SeqNo: **1753102** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-39600 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39600 RunNo: 53230

Prep Date: 8/6/2018 Analysis Date: 8/6/2018 SeqNo: 1753103 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.1 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 2 of 2



Hall Environmental Analysis Laboratory 1901 Hawkins NE 4thiquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website, www.halleavironmental.com

Sample Log-In Check List

Client Name: GHD	Work Order Numb	er: 1808249		RootNo	
Received By Erin Melendrez	8/4/2018 10:15:00 /	M	MMI		
Completed By: Ashley Gallegos	8/6/2018 8:41:05 AI	M	A		
Reviewed By: 523	8/6/18	Labele	d by	Stanolso XX	
Chain of Custody				Q	
1. Is Chain of Custody complete?		Yes V	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an altempt made to cool the sam	ples?	Yes V	No	NA 🗆	
4. Were all samples received at a temper	rature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗆		
5, Sufficient sample volume for indicated	test(s)?	Yes V	No. 🗆		
7, Are samples (except VOA and ONG) p	roperly preserved?	Yes 🗸	No L		
8. Was preservative added to bottles?		Yes 🗀	No 😿	NA .	
9. VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials ☑	
0. Were any sample containers received	broken?	Yes	No 🗸	# of preserved	1
Does paperwork match bottle labels? (Note discrepancies on chain of custod	iy)	Yes 🔽	No 🗆	bottles checked for pH: 12 unless not	ed)
2. Are matrices correctly identified on Ch.	ain of Custody?	Yes 🗸	No _	Adjusted?	d
is it clear what analyses were requeste	d?	Yes 🗸	No L	Enecked by: 08/018	10
4. Were all holding times able to be met? (If no, notify customer for authorization		Yes 🗸	No 🗆	Checked by: 001	
pecial Handling (if applicable)			/		
5. Was client notified of all discrepancies	with this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail F	Phone Fax	_ In Person	
Regarding:					
Client Instructions:					

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com				(N	10 Y) səlddu8 vir	1								. (
N O S	Albuquerque, NM 57109 Fax 505-345-4107		00		Spi	111	X	X	X	X	X				S
HALL ENVIRON NALYSIS LAB www.hallenvironmental.com	erque, Niki 87 505-345-4107	est	-	,		AOV) 808S8 -ime2) 07S8	14	-	-	-	+	++-		4	3
IR L	rque, 05-3	Request	bCB.s	2808		iotae Pestici	100							+	A
N SIS	Fax 5		(†OS'†Oo	"NO"E	ON'	Anions (F,CI	1								
Envise S		Analysis				RCRA 8 Mel	-							-	-
IAL W.hall		١	(sw	S 075	9 10	01£8) e'HA9		1		7+					2
IA	45-3			_		eDB (Metho								īijī.	2
HALL ANA www.h	505-345-3975		e1901/04			TPH (Metho								1	1
\$	Tel.			_		80158 H9T		Ę							e Co
		-				BTEX + MTI						4			Z Semarks
	Т		(1000)	Tares	00				-	-	-	+	-	+ 1	χ. Σ
Rush 48 hr.	1		randen		1-0.3(0)=2		100-	-003	-003	100-	200-			i d	\$ 13 1/8 1/46
1 10	0 ed#		d	A Vac	Temperature: 3.	Preservative Type	J178							0	Sar Service
D Standard Project Name:	ď.	Design to the second	A \ A \	Sampler: A		Container Type and #	161.54 Sex	+	. C.	- <	—- *ক			1	Recommend of the second
Chain-of-Custody Record t. C. H. Secrites g Address (12) Indian School (8)	DE NW 87	Phone # 1905 5 5 1 0472	D Level 4 (Full Validation)			Sample Request ID	THEORY SINGER TO DECEMBER OF	3. WESTS D. D. D. S. B. W. A. C. S. W. S. F. Y.	57111355130 01 DS05189116/34/36 12	S 11135250 00 00 00 00 00 00 00 00 00 00 00 00 0	5-11(3-52.50 -0.10805-16-14:55-14-58				
Client: C- HV SECVILES Mailing Address: C12 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	W.	V 0 5	CALL PARTY	□ Other		Matrix	*	-17	-0	i,	- 10			ofermiebo	Remaining by
Client: C- III) S	N QO	Phone # .205	QA/QC Package:	tation AP	(Type)	me	(035	1039	5401	080	100			- Indian	a 8
Client:	Sec. 100	Phone	QA/QC Packa	Accreditation	□ EDD (Type)	Date	8/2/18							ig di di	De 7



August 09, 2017

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2 - C -14

Enclosed are the results of analyses for samples received by the laboratory on 08/03/17 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: 08/03/2017 Reported: 08/09/2017

Project Name: 2 - C -14
Project Number: 141 SITE
Project Location: NOT GIVEN

Sampling Date: 08/03/2017

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: NORTH STOCK PILE (H702039-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEX	<0.300	0.300	08/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 72-148	}						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/07/2017	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2017	ND	191	95.4	200	3.04	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	196	97.8	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					
Surrogate: 1-Chlorooctane	98.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	97.9	% 34.7-15	7						

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. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine



Analytical Results For:

ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: 08/03/2017 Reported:

08/09/2017 2 - C -14

Project Number: 141 SITE Project Location: NOT GIVEN

Project Name:

Sampling Date: 08/03/2017

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker

Sample ID: SOUTH STOCK PILE (H702039-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEX	<0.300	0.300	08/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 72-148	}						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/07/2017	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2017	ND	191	95.4	200	3.04	
DRO >C10-C28	22.7	10.0	08/04/2017	ND	196	97.8	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					
Surrogate: 1-Chlorooctane	97.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	98.5	% 34.7-15	7						

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of 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 claim 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.

Celuy D. Keine



Analytical Results For:

ENERGY TRANSFER DEAN ERICSON P. O. BOX 1226 JAL NM, 88252 Fax To:

Received: 08/03/2017 Reported: 08/09/2017

Project Name: 2 - C -14
Project Number: 141 SITE

Project Location: NOT GIVEN

Sampling Date: 08/03/2017

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: MIDDLE STOCK PILE (H702039-03)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2017	ND	2.04	102	2.00	1.80	
Toluene*	<0.050	0.050	08/07/2017	ND	1.90	95.1	2.00	1.29	
Ethylbenzene*	<0.050	0.050	08/07/2017	ND	1.99	99.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	08/07/2017	ND	5.89	98.1	6.00	2.12	
Total BTEX	<0.300	0.300	08/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	}						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/07/2017	ND	432	108	400	3.64	
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	08/04/2017	ND	191	95.4	200	3.04	
DRO >C10-C28	<10.0	10.0	08/04/2017	ND	196	97.8	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					
Surrogate: 1-Chlorooctane	94.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.5	% 34.7-15	7						

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. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by 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

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. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other Corrected Relinquished By: Delivered By: (Circle One) 8.5% Sampler Name: Project Location: Project Manager: Project Name: Project #: Phone #: Company Name: Address: FOR LAB USE ONLY Lab I.D. Middle Starte Pila Such Stalk Pite North Stalk PH (575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240 8 'ear Sample I.D. 1 Time: -3000 450 F Date: 3-/7 Time: Date: Project Owner: Fax #: State: Received By: Zip (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER Sample Condition WASTEWATER MATRIX SOIL OIL SLUDGE OTHER State: City: Phone #: P.O. #: Attn: Address: Company: ACID/BASE PRESERV CHECKED BY: (Initials) ICE / COOL OTHER BILL TO 1/KB DATE SAMPLING red by client, its subsidiaries Fax Result: 12-00g TIME on of the applicable TPH EXT □ Yes ranged 10. Added ON O TO. ANALYSIS REQUEST

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