

CONSULTING & SAFETY

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

November 3rd, 2014

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 2 811 S. First St. Artesia, NM 88210

> RE: Corrective Action Plan Burnett Oil Co. Gissler A-2 Battery (2RP-2233) UL/J sec. 14 T17S R30E API No. 30-015-33498

Mr. Bratcher:

Burnett Oil Co. (Burnett) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 2.5 miles northeast of Loco Hills, New Mexico. The initial C-141 states that the site is located in UL/J. However, the release also extends into UL/O of sec. 14 T17S R30E. Based on RECS soil bore installations near the site, it can be deduced that the Gissler A-2 Battery is in an area of no groundwater (Figure 1).

On March 20th, 2014, a plugged water line caused water to flow into the oil tank; consequently, the oil tank overflowed. A total of 230 barrels of oil were released over 4,609 square feet of battery pad and 8,299 square feet of pasture land. Vacuum trucks were called to the site and recovered 210 barrels of oil. NMOCD and BLM were notified of the release on March 20th, 2014, and an initial C-141 was sent to NMOCD and BLM for their approval. NMOCD approved the initial C-141 on March 31st, 2014 (Appendix A).

RECS personnel were on site beginning on March 20th, 2014 to assess the release. The release was photographed and GPS mapped. Eight samples points were sampled from within the release at the surface and with depth (Figure 2). All soil samples were field tested for chlorides and organic vapors. Representative samples from each sample point were taken to a commercial laboratory for analysis (Appendix B).

Photo documentation of the field activities can be found in Appendix C.

Corrective Action Plan

Based on the laboratory analysis of the release, the site will be excavated in seven sections (Figure 3). The release area in the battery will be scraped down 6 inches to 1 foot bgs. To

protect tank stability and personnel safety, the scrape will not extend past this depth. Once the scrape is completed, a 5 point bottom composite will be taken and field tested for chlorides and organic vapors. The composite will then be taken to a commercial laboratory for analysis. On facility abandonment, the remainder of the contamination at the battery pad will be addressed.

The areas around Point 3, Point 4 and Point 8 will be scraped down to 1 ft bgs. The area around Point 5 will be scraped down to 1.5 ft bgs and the area around Point 7 will be scraped down to 3 ft bgs. The release area in the road will be scraped down to 6 inches bgs. Once the scrape is completed, a sample will be taken from the bottom of the scrape and field tested for chlorides and organic vapors. If field testing indicates that the sample will return chloride, GRO, DRO and BTEX readings below regulatory standards, the sample will be taken to a commercial laboratory for analysis. If field testing does not show that all constituents will be below regulatory standards, the scrape will be deepened until field testing shows that all constituents will be below regulatory standards, or the depth of the scrape will impede vehicular traffic.

The area around Point 6, where the oil pooled, will be excavated to a depth of 4 ft bgs. Once the scrape is completed, the walls of the excavation will be sampled and field tested for chlorides and organic vapors. If field testing indicates that the samples will return chloride, GRO, DRO and BTEX readings below regulatory standards, the samples will be taken to a commercial laboratory for analysis. If field testing does not show that all constituents in the wall samples will be below regulatory standards, the walls of the excavation will be expanded until field testing indicates that laboratory analysis of the walls will return constituents below regulatory standards. At the base of the excavation, a 20-mil reinforced poly liner will be installed and properly seated.

All excavated soil will be taken to a NMOCD approved facility for disposal. Clean caliche will be imported to the site to serve as backfill for the battery pad and the caliche road. Clean top soil will be imported to the site to serve as backfill for the pasture. Samples of both the caliche and top soil will be taken to a commercial laboratory to confirm that their chloride values are below regulatory standards. The battery pad and pasture will be backfilled with the imported soils and contoured to the surrounding location. The disturbed areas in the pasture will then be seeded with a blend of native vegetation.

Once these activities have been completed, a final report will be submitted to NMOCD and BLM requesting 'remediation termination' and site closure.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer Project Scientist

RECS

(575) 441-0431

Attachments:

Figure 1 – Depth to Groundwater

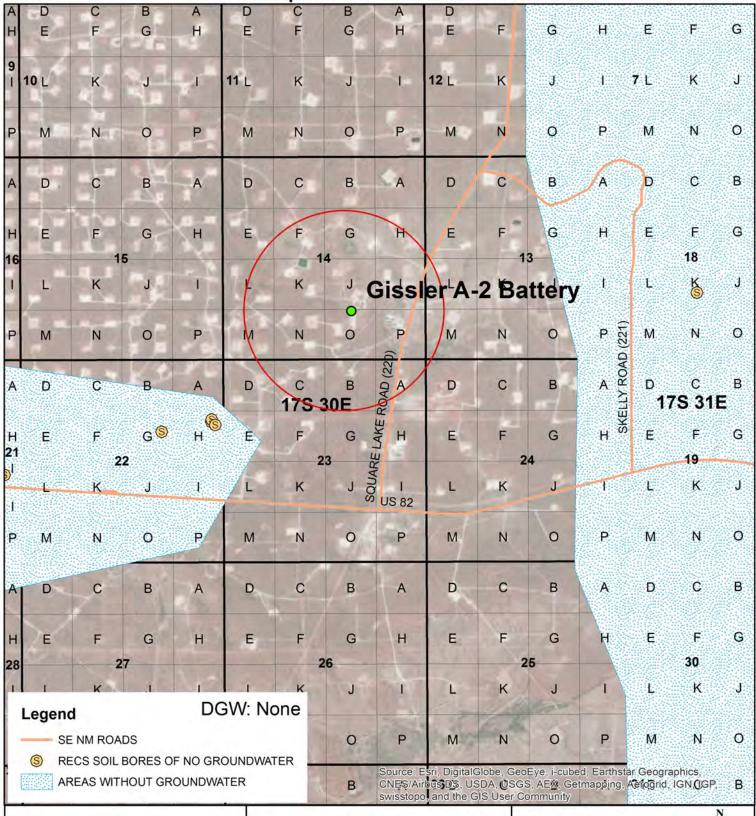
Figure 2 – Initial Sampling Data
Figure 3 – Proposed Corrective Actions
Appendix A – Initial C-141

Appendix B – Initial Sampling Labs

Appendix C – Photo Documentation

Figures

Depth to Groundwater

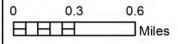




BURNETT GISSLER A-2 BATTERY

LEGALS: UL/ J & O sec. 14 T-17-S R-30-E EDDY COUNTY, NM



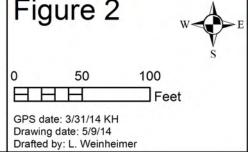


Drawing date: 10/8/14 Drafted by: L. Weinheimer

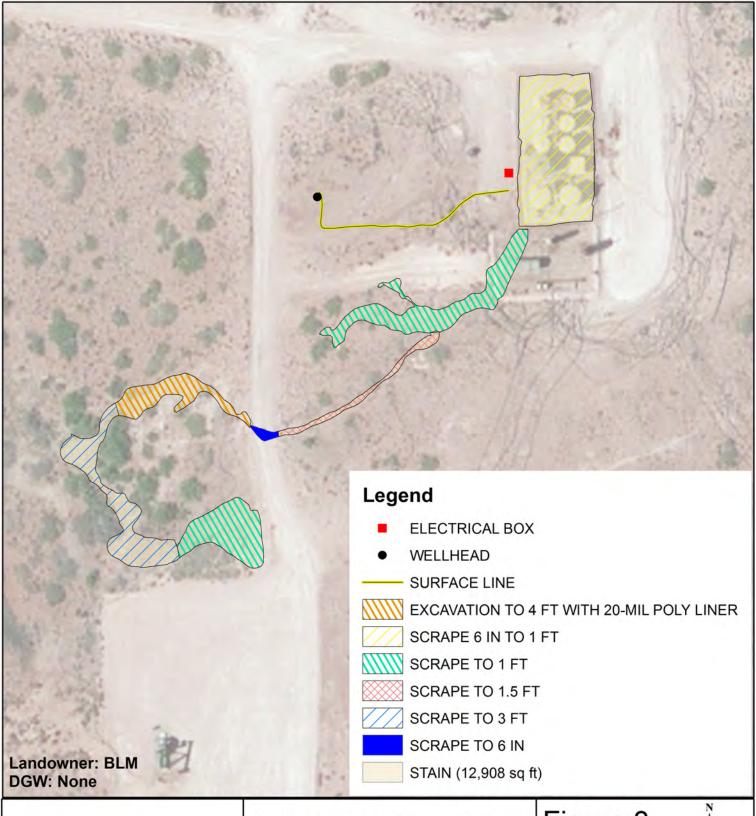
Initial Sampling Data Point 1 DRO **BTEX** SS 1395 479 102.5 19.2 Point 2 CI-PID GRO DRO 4250 1100 13100 49200 73.6 Point 3 CI-DRO SS 78.7 < 0.05 Point 4 PID GRO DRO SS 390.2 6" 391.9 1920 21.2 Point 5 PID GRO DRO 4,609 sq ft 388.5 SS <0.05 0.238 0.612 1.13 30.4 <0.05 <0.05 8,299 sq ft **BTEX** SS 294.8 400.5 87 2646 1.5' 91 4221 2' 92 5000 5000 975 Point 6 Point 8 GRO DRO CI-PID BTEX GRO DRO 5000 1.31 10.9 275.6 <0.05 <0.05 <0.05 <0.15 <0.3 108 6860 5 7299 7952 8025 3999 5024 3295 2410 4.9 2217 1333 3.3 6.5 3028 3 960 2.5 Legend 7.5' 1940 3.2 <10 <0.05 <0.05 <0.05 <0.15 <0.3 <10 SAMPLE POINT CI- FIELD DATA **ELECTRICAL BOX** CI- LAB DATA **WELLHEAD** SURFACE LINE Landowner: BLM STAIN (12,908 sq ft) Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geo AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the **DGW: None** Figure 2 **BURNETT** GISSLER A-2 BATTERY 100 50 UL J & O SECTION 14 HHHFeet



T-17-S R-30-E EDDY COUNTY, NM



Proposed Corrective Actions





BURNETT GISSLER A-2 BATTERY

UL J & O SECTION 14 T-17-S R-30-E EDDY COUNTY, NM

Figure 3 0 50 100 HHH Feet GPS date: 3/31/14 KH

GPS date: 3/31/14 KH Drawing date: 5/9/14, 10/8/14 Drafted by: L. Weinheimer

Appendix A Initial C-141

District I 1625 N. French Dr., Hobbs, NM 88240 District II

State of New Mexico

Form C-141 Revised August 8, 2011

District II 811 S. First St., Artesia, NM 88210 MAR 2 4 2014 Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

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

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Santa Fe, NM 87505

nHMPI											
	40902	3168				OPERA	TOR		☑ Initi	al Report	Final Repo
Name of C	ompany I	Burnett Oil C		3080	2	Contact SI	nawna Matthew	s			
		ake Rd., Lo		VM 88255			No. (575) 219-0	5370			
Facility Na	me Gissle	er A-2 Batter	У	_		Facility Typ	be Battery				
Surface Ov	vner BLM			Mineral O	wner		- 1		API No	. 30-015-3	33498
				LOCA	TION	OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County	
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A total of 12, BLM guideling hereby certic egulations all ublic health hould their or the environ	a Affected a 908 square i nes. fy that the ir l operators a or the environ perations ha ment. In ad	and Cleanup A feet of bermed aformation giver required to comment. The	er ran into to accion Take I battery, le ven above in report and acceptance dequately in CD accepta	n.* ase road and past s true and comple /or file certain rel of a C-141 report nvestigate and rer ince of a C-141 re	ete to the lease not t by the mediate	best of my lifications an NMOCD ma	the release. ' knowledge and ur d perform correct rked as "Final Re on that pose a thre	The site Inderstance Indersta	will be ren d that purs ons for rele es not relie und water, ility for co	uant to NMC ases which reve the opera surface wat ompliance wi	NMOCD and OCD rules and may endanger ator of liability ter, human health ith any other
hereby certi egulations al ublic health hould their or r the environederal, state,	a Affected a 908 square i nes. fy that the ir l operators a or the environ perations ha ment. In ad	and Cleanup A feet of bermed aformation giver required to comment. The save failed to a didition, NMO	er ran into to control of the contro	n.* ase road and past s true and comple /or file certain rel of a C-141 report nvestigate and rer ince of a C-141 re	ete to the lease noi t by the mediate	best of my lifications an NMOCD ma contaminations not relieve	knowledge and und perform correct rked as "Final Reson that pose a three the operator of resource to the OIL CONS	The site oderstand ive action port" do at to groesponsib	will be ren d that purs ons for rele es not relie und water, ility for co	uant to NMC ases which reve the opera surface wat ompliance wi	NMOCD and OCD rules and may endanger ator of liability ter, human health ith any other
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Appendix B Initial Sampling Labs



April 02, 2014

JACOB KAMPLAIN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER A-2

Enclosed are the results of analyses for samples received by the laboratory on 03/26/14 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 03/26/2014 Sampling Date: 03/26/2014

Reported: 04/02/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT. 1 @ SURFACE (H400911-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	41.6	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	170	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	116	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	152	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	479	30.0	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/02/2014	ND	416	104	400	3.77	
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	5470	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	27500	100	03/31/2014	ND	198	99.0	200	1.31	
Surrogate: 1-Chlorooctane	198 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	753 9	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 03/26/2014 Sampling Date: 03/26/2014

Reported: 04/02/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: PT. 2 @ SURFACE (H400911-02)

BTEX 8021B	mg	/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	73.6	10.0	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	451	10.0	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	385	10.0	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	549	30.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	1460	60.0	04/01/2014	ND					

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	04/02/2014	ND	416	104	400	3.77	
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	13100	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	49200	100	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 497 % 65.2-140

Surrogate: 1-Chlorooctadecane

1260 %

63.6-154

Cardinal Laboratories *=Accredited Analyte

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Received: 03/26/2014 Sampling Date: 03/26/2014

Reported: 04/02/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT. 3 @ SURFACE (H400911-03)

BTEX 8021B	mg/l	kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.68	2.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	49.9	2.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	57.9	2.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	88.3	6.00	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	203	12.0	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	138 %	6 89.4-12	6						
Chloride, SM4500Cl-B	ma/l	ka	Δnalvze	d Bv: AP					

· ·									
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2014	ND	416	104	400	3.77	
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	1890	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	21200	100	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 160 % 65.2-140
Surrogate: 1-Chlorooctadecane 675 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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Reported: 04/02/2014 Sampling Type: Soil

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Project Location: NOT GIVEN

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	21.6	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	137	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	131	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	192	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	481	30.0	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	132 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2014	ND	416	104	400	3.77	
TPH 8015M	mg,	mg/kg		Analyzed By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3990	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	25400	100	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 218 % 65.2-140 752 % 63.6-154 Surrogate: 1-Chlorooctadecane

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 03/26/2014 Sampling Date: 03/26/2014

Reported: 04/02/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT. 5 @ SURFACE (H400911-05)

BTEX 8021B	mg/	kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.58	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	132	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	159	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	244	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	541	30.0	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	140 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					

mg,	/kg	Analyzed By: AP						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
208	16.0	04/02/2014	ND	416	104	400	3.77	
mg/kg		Analyzed By: ms						S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
4850	100	03/31/2014	ND	222	111	200	9.86	
26700	100	03/31/2014	ND	198	99.0	200	1.31	
	Result 208 mg, Result 4850	208 16.0 mg/kg Result Reporting Limit 4850 100	Result Reporting Limit Analyzed 208 16.0 04/02/2014 mg/kg Analyze Result Reporting Limit Analyzed 4850 100 03/31/2014	Result Reporting Limit Analyzed Method Blank 208 16.0 04/02/2014 ND mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank 4850 100 03/31/2014 ND	Result Reporting Limit Analyzed Method Blank BS 208 16.0 04/02/2014 ND 416 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS 4850 100 03/31/2014 ND 222	Result Reporting Limit Analyzed Method Blank BS % Recovery 208 16.0 04/02/2014 ND 416 104 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS % Recovery 4850 100 03/31/2014 ND 222 111	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 208 16.0 04/02/2014 ND 416 104 400 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 4850 100 03/31/2014 ND 222 111 200	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 208 16.0 04/02/2014 ND 416 104 400 3.77 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 4850 100 03/31/2014 ND 222 111 200 9.86

Surrogate: 1-Chlorooctane 265 % 65.2-140
Surrogate: 1-Chlorooctadecane 680 % 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 03/26/2014 Sampling Date: 03/26/2014

Reported: 04/02/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: PT. 6 @ SURFACE (H400911-06)

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	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	0.052	0.050	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	0.063	0.050	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	<0.150	0.150	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	<0.300	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21000	16.0	04/02/2014	ND	416	104	400	3.77	
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	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	395	50.0	03/31/2014	ND	198	99.0	200	1.31	
Surrogate: 1-Chlorooctane	92.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	154 9	63.6-15	4						

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Celey D. Keine

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 03/26/2014 Sampling Date: 03/26/2014

Reported: 04/02/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT. 7 @ SURFACE (H400911-07)

BTEX 8021B	mg/l	kg	Analyze	d By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	8.18	2.00	04/01/2014	ND	2.28	114	2.00	8.45		
Toluene*	45.4	2.00	04/01/2014	ND	2.18	109	2.00	8.38		
Ethylbenzene*	78.2	2.00	04/01/2014	ND	2.13	106	2.00	8.60		
Total Xylenes*	128	6.00	04/01/2014	ND	6.26	104	6.00	7.23		
Total BTEX	260	12.0	04/01/2014	ND						
Surrogate: 4-Bromofluorobenzene (PID	152 %	6 89.4-12	6							
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: AP						

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/02/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	mg/kg		Analyzed By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3490	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	36600	100	03/31/2014	ND	198	99.0	200	1.31	
-									

Surrogate: 1-Chlorooctane 259 % 65.2-140 Surrogate: 1-Chlorooctadecane 1090 % 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 03/26/2014 Sampling Date: 03/26/2014

Reported: 04/02/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT. 8 @ SURFACE (H400911-08)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	95.2	10.0	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	500	10.0	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	312	10.0	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	418	30.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	1330	60.0	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/02/2014	ND	416	104	400	3.77	
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	8970	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	31300	100	03/31/2014	ND	198	99.0	200	1.31	
Surrogate: 1-Chlorooctane	277	% 65.2-14	0						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

851 %

63.6-154



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.

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or

greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance

limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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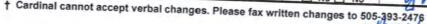
ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Project Manager: Jacob Kamplan					-		B	ILL T	0	21				ANA	LYSIS	REQUE	CT	
Address:					-	2.0.#									1	KEQUE	31	
City: Hobbs State: NM	7in:	000	110			omp	any:			1		1		S				
Phone #: Fax #:	Zip.	882	240			Attn:							6					
Project #: Project Owne	· ·					Address:			1				5					
Project Name:						City:			100	Σ		Т	N/S					
Project Location: GISSLP A-2						State: Zip:			Chlorides	8015	×	Texas TPH	Cations/Anions					
ampler Name: Kyle Humphrey						Phone #:			15	ò	BTEX	10	ij	TDS	1 1			
FOR LAB USE ONLY	П	Т	MA	TRIX		DPF	SERV.		PLING	1≍	PH	B	Xa	Ö	F			
Lab I.D. Sample I.D. 1400911 Pt 1 @ Sv.fccp 2 pt 2 @ Sv.fccp 3 Pt 3 @ Sv.fccp 4 pt 9 @ Sv.fccp 5 pt 8 @ Sv.fccp 6 pt 6 @ Sv.fccp 7 pt 7 @ Sv.fccp 8 pt 8 @ Sv.fccp ASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for an yese. All claims including those for negligence and any other cause whatsoever shall be decided to related to the performance of seniorse including with the sor successors arising out of or related to the performance of seniorse in an under the seniorse in the	6 6 6 1 6 1							DATE 3-26	10:00 10:05 10:15 10:15 10:25 10:30 10:35	<i>X X X X X X X X X X</i>	X X X Y Y X X	<i>X X X X X X X X X X</i>	3	Complete				

Kyle Huniam Relinquished By:	ance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above state Date:	Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #: REMARKS: email results
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition CHECKED BY: Cool Intact Pes Pes No No No RI changes. Please fax written changes to 505-393-2476	Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com Khumphrey@rice-ecs.com sedwards@rice-ecs.com,lflores@rice-ecs.com





April 08, 2014

JACOB KAMPLAIN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER A-2

Enclosed are the results of analyses for samples received by the laboratory on 04/02/14 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/27/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT 1 @ 6" (H400982-01)

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*	<0.200	0.200	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	3.53	0.200	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	6.46	0.200	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	9.25	0.600	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	19.2	1.20	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	162	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	04/07/2014	ND	400	100	400	3.92	
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	248	100	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	8940	100	04/04/2014	ND	203	101	200	5.74	
Surrogate: 1-Chlorooctane	146	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	304	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/27/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT 3 @ 6" (H400982-02)

BTEX 8021B	mg	/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	3.70	2.00	04/07/2014	ND	2.01	100	2.00	1.39		
Toluene*	44.1	2.00	04/07/2014	ND	1.92	95.8	2.00	2.21		
Ethylbenzene*	56.6	2.00	04/07/2014	ND	1.91	95.3	2.00	0.140		
Total Xylenes*	89.8	6.00	04/07/2014	ND	5.49	91.6	6.00	0.369		
Total BTEX	194	12.0	04/07/2014	ND						
Surrogate: 4-Bromofluorobenzene (PID	147	% 89.4-12	6							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/07/2014	ND	400	100	400	3.92		
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	2100	100	04/04/2014	ND	183	91.4	200	1.10		
DRO >C10-C28	16200	100	04/04/2014	ND	203	101	200	5.74		
Surrogate: 1-Chlorooctane	202	% 65.2-14	0							

Surrogate: 1-Chlorooctadecane 452 % 63.6-154

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419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/27/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT 4 @ 6" (H400982-03)

BTEX 8021B	mg	/kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	19.3	2.00	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	27.1	2.00	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	44.5	6.00	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	90.9	12.0	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/07/2014	ND	400	100	400	3.92	
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	1920	100	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	17700	100	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 207 % 65.2-140
Surrogate: 1-Chlorooctadecane 461 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/27/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: PT 5 @ 6" (H400982-04)

BTEX 8021B	mg/	/kg	Analyzed By: MS					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2014	ND	2.01	100	2.00	1.39		
Toluene*	0.074	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21		
Ethylbenzene*	0.340	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140		
Total Xylenes*	0.647	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369		
Total BTEX	1.06	0.300	04/07/2014	ND						
Surrogate: 4-Bromofluorobenzene (PID	153 9	% 89.4-12	6							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/07/2014	ND	416	104	400	3.92		
TPH 8015M	mg/	/kg	Analyze	d By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	24.5	10.0	04/04/2014	ND	183	91.4	200	1.10		
DRO >C10-C28	670	10.0	04/04/2014	ND	203	101	200	5.74		
Surrogate: 1-Chlorooctane	123 9	% 65.2-14	70							
Surrogate: 1-Chlorooctadecane	115 9	% 63.6-15	4							

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/27/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT 6 @ 6" (H400982-05)

GRO C6-C10

DRO >C10-C28

Surrogate: 1-Chlorooctadecane

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	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	0.428	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	1.31	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	2.49	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	4.23	0.300	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	04/07/2014	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

183

203

91.4

101

200

200

1.10

5.74

04/04/2014

04/04/2014

Surrogate: 1-Chlorooctane 113 % 65.2-140

<50.0

572

137 %

50.0

50.0

63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/27/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT 7 @ 6" (H400982-06)

BTEX 8021B	mg	/kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.93	5.00	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	64.8	5.00	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	130	5.00	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	229	15.0	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	431	30.0	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	150	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2014	ND	416	104	400	3.92	
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	5930	200	04/04/2014	ND	183	91.4	200	1.10	

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/27/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT 8 @ 6" (H400982-07)

BTEX 8021B	mg	/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	04/07/2014	ND	2.01	100	2.00	1.39		
Toluene*	0.712	0.200	04/07/2014	ND	1.92	95.8	2.00	2.21		
Ethylbenzene*	3.61	0.200	04/07/2014	ND	1.91	95.3	2.00	0.140		
Total Xylenes*	6.55	0.600	04/07/2014	ND	5.49	91.6	6.00	0.369		
Total BTEX	10.9	1.20	04/07/2014	ND						
Surrogate: 4-Bromofluorobenzene (PID	165	% 89.4-12	6							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/07/2014	ND	416	104	400	3.92		
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	240	10.0	04/04/2014	ND	183	91.4	200	1.10		
DRO >C10-C28	2290	10.0	04/04/2014	ND	203	101	200	5.74		
Surrogate: 1-Chlorooctane	144	% 65.2-14	0							

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

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419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/27/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT 6 @ 1' (H400982-08)

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	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	<0.050	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	< 0.150	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	<0.300	0.300	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9860	16.0	04/07/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	12.0	10.0	04/04/2014	ND	181	90.3	200	2.70	
Surrogate: 1-Chlorooctane	116 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 %	63.6-15	4						

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	Recs		_								470					-	ANA	LYSIS	REC	QUE	ST			
Project Manager	: Jccob Kemplain						P	.0.#																
Address:							C	omp	any:				1				S							
City: Hobbs	State: NM	Zip	: 88	240			A	ttn:									o			1				
Phone #:	Fax #:						A	ddre	ss:								'n							
Project #:	Project Owne	r:				c	City:				1	Σ		Т	S/F									
Project Name:	-				s	State: Zip:				es	2	×	TPH	SUC										
Project Location	: GISSLP A-Z						P	hone	#:				Chlorides	801	BTEX	S	Cations/Anions	TDS						
Sampler Name:	Kyle Humphrey						F	ax #:					을		BT	Texas	Ö	F					- 1	
FOR LAB USE ONLY		1.	Г	-	MAT	RIX	-	PR	ESER	V.	SAMPLI	NG	O	TPH		e	te						- 1	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					Complete							
1	p+ 2 60 611	6	1		1				1		7-27-19	9:00	1	V	1								-	
2	P+3@ 611	6	1		V				V	1	1	9:05	V	V	1									
3	P+ 46 611	6	1		V	4	1	\perp	1	4	1	9:10	V	V	1							-	_	
91	D+5 @ 611	6	1	+	1	+	+	+	1	+	-	9:15	1	-	1		-		-4			_	-	
7	P + 6 (W 6	6	1	+	V	+	+	+	1	+		9:20	V	-	/		-				-	+	+	
9	P+ 80 6"	1	1	+	1	+		+	1	+	-	9:30	1	~	/			\vdash			\vdash	-	+	
8	P+6@ 1'	6	1		1		1	1	1	1		10:00	V	V	1							#		
THE SACE NOVE LINES	d Damages. Cardinal's liability and client's exclusive remedy for											d by the align for				N I								

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Relinquished By:	Parter 14 Received	Ved By:	Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #: REMARKS:
Relinquished By:	Date: Recei	ved By:	email results Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			Lweinheimer@rice-ecs.com Khumphrey@rice-ecs.com sedwards@rice-ecs.com,lflores@rice-ecs.com

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2415





April 08, 2014

JACOB KAMPLAIN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER A-2

Enclosed are the results of analyses for samples received by the laboratory on 04/02/14 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/31/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT. 4 @ 1' (H400983-01)

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	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	< 0.050	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	< 0.050	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	<0.300	0.300	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/08/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	195	10.0	04/04/2014	ND	181	90.3	200	2.70	
Surrogate: 1-Chlorooctane	118 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 %	63.6-15	4						

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/31/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT. 5 @ 1' (H400983-02)

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	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	0.238	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	0.612	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	1.13	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	1.98	0.300	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	134	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/08/2014	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
									0
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte GRO C6-C10	Result <50.0	Reporting Limit 50.0	Analyzed 04/04/2014	Method Blank ND	BS 163	% Recovery 81.4	True Value QC 200	RPD 1.36	Quaimer

Surrogate: 1-Chlorooctadecane 159 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/31/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT. 6 @ 8' (H400983-03)

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	04/07/2014	ND	1.99	99.3	2.00	3.19	
Toluene*	<0.050	0.050	04/07/2014	ND	2.02	101	2.00	2.90	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.99	99.6	2.00	3.10	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.73	95.5	6.00	3.00	
Total BTEX	<0.300	0.300	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/08/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	<10.0	10.0	04/04/2014	ND	181	90.3	200	2.70	
Surrogate: 1-Chlorooctane	123 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 9	63.6-15	4						

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND AN ALY SIS REQUES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020 Company Name:

Address:	Jacob Ken	Plate		1222	BILL TO	212		_							
city: Hobbs		0 4141		P.O. #;				_	_	ANA	LYSIS	REQ	-	EST	
Phone #:	State:	NM Zip:	000	Compa	ny:	1			1						1
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FOR LAB USE ONLY	mphrey			Phone #:		9	15	X	0	Cations/Anions	1			1 1	
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	Sample I.D.	© (G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL W	PRESE	RV. SAMPLING	Chlorides	TPH 801	BTEX	Texas TPH	Complete Ca	F				
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NOTE: Liability and Damages: Cardinal's All claims including those for pages	Is liability and client's exclusive remedy for a and any other cause whatsoever shall be of dental or consequental damages, including the performance of services hereunder by C. Date 9						1	-	-	+			4		
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May 09, 2014

JACOB KAMPLAIN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER A-2

Enclosed are the results of analyses for samples received by the laboratory on 05/01/14 11:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 05/01/2014 Sampling Date: 04/30/2014
Reported: 05/09/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: BURNETT Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: PT 8 1' (H401329-01)

BTEX 8260B	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	05/09/2014	ND	2.37	119	2.00	0.0531	
Toluene*	<0.050	0.050	05/09/2014	ND	2.38	119	2.00	0.125	
Ethylbenzene*	<0.050	0.050	05/09/2014	ND	2.24	112	2.00	0.819	
Total Xylenes*	<0.150	0.150	05/09/2014	ND	6.91	115	6.00	0.228	
Total BTEX	<0.300	0.300	05/09/2014	ND					
Surrogate: Dibromofluoromethane	97.6	% 61.3-14	2						
Surrogate: Toluene-d8	109	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/08/2014	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	<10.0	10.0	05/08/2014	ND	192	95.9	200	1.84	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	220	110	200	12.1	
Surrogate: 1-Chlorooctane	89.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.4	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 05/01/2014 Sampling Date: 04/30/2014 Reported: 05/09/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact Sample Received By: Project Number: **BURNETT** Celey D. Keene

Project Location: NOT GIVEN

Sample ID: PT 7 2.5' (H401329-02)

BTEX 8260B	mg	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.26	0.500	05/09/2014	ND	2.37	119	2.00	0.0531	
Toluene*	63.3	0.500	05/09/2014	ND	2.38	119	2.00	0.125	
Ethylbenzene*	63.8	0.500	05/09/2014	ND	2.24	112	2.00	0.819	
Total Xylenes*	88.0	1.50	05/09/2014	ND	6.91	115	6.00	0.228	
Total BTEX	219	3.00	05/09/2014	ND					
Surrogate: Dibromofluoromethane	98.3	% 61.3-14	2						
Surrogate: Toluene-d8	115	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	247	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/08/2014	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	2020	100	05/08/2014	ND	192	95.9	200	1.84	
DRO >C10-C28	7350	100	05/08/2014	ND	220	110	200	12.1	
Surrogate: 1-Chlorooctane	153	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	192	% 63.6-15	4						

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Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 05/01/2014 Sampling Date: 04/30/2014 Reported: 05/09/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact Sample Received By: Project Number: **BURNETT** Celey D. Keene

Project Location: NOT GIVEN

Sample ID: PT 7 3' (H401329-03)

BTEX 8260B	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	05/09/2014	ND	2.37	119	2.00	0.0531	
Toluene*	0.087	0.050	05/09/2014	ND	2.38	119	2.00	0.125	
Ethylbenzene*	0.093	0.050	05/09/2014	ND	2.24	112	2.00	0.819	
Total Xylenes*	<0.150	0.150	05/09/2014	ND	6.91	115	6.00	0.228	
Total BTEX	<0.300	0.300	05/09/2014	ND					
Surrogate: Dibromofluoromethane	96.5	% 61.3-14	2						
Surrogate: Toluene-d8	99.6	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	132 9	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/08/2014	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	<10.0	10.0	05/08/2014	ND	192	95.9	200	1.84	
DRO >C10-C28	194	10.0	05/08/2014	ND	220	110	200	12.1	
Surrogate: 1-Chlorooctane	107 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	127 9	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane

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Celey D. Keene



Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

Sample Received By:

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 05/01/2014 Sampling Date: 04/30/2014

Reported: 05/09/2014 Sampling Type: Soil
Project Name: GISSLER A-2 Sampling Condition: Cool & Intact

Project Number: BURNETT
Project Location: NOT GIVEN

Sample ID: PT 3 1' (H401329-04)

BTEX 8260B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2014	ND	2.37	119	2.00	0.0531	
Toluene*	<0.050	0.050	05/09/2014	ND	2.38	119	2.00	0.125	
Ethylbenzene*	0.068	0.050	05/09/2014	ND	2.24	112	2.00	0.819	
Total Xylenes*	0.188	0.150	05/09/2014	ND	6.91	115	6.00	0.228	
Total BTEX	<0.300	0.300	05/09/2014	ND					
Surrogate: Dibromofluoromethane	98.3	% 61.3-14	2						
Surrogate: Toluene-d8	103 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	128 9	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/08/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	192	95.9	200	1.84	
DRO >C10-C28	522	10.0	05/08/2014	ND	220	110	200	12.1	
Surrogate: 1-Chlorooctane	119 %	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	126 9	% 63.6-15	4						

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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ARDINAL LABORATORIES

Company Name:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

	Laura Flores /) (amplain							P.O. #:						1				6				
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Delivered By: Sampler - UPS		2	4	C	C	ample cool I Yes No	ntact	(Initials) CUI					nic@r	rice-e	ecs.c	om		esare			e-ecs.c	com

BILL TO

154

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



September 12, 2014

JACOB KAMPLAIN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER A-2

Enclosed are the results of analyses for samples received by the laboratory on 09/11/14 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 09/11/2014 Sampling Date: 09/11/2014

Reported: 09/12/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT. 5 @ 1.5' (H402826-01)

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	09/11/2014	ND	1.82	91.1	2.00	6.49	
Toluene*	<0.050	0.050	09/11/2014	ND	1.68	83.8	2.00	5.95	
Ethylbenzene*	< 0.050	0.050	09/11/2014	ND	1.75	87.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	5.34	89.0	6.00	6.76	
Total BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/12/2014	ND	400	100	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	09/12/2014	ND	198	99.1	200	4.65	
DRO >C10-C28	<10.0	10.0	09/12/2014	ND	198	98.9	200	8.84	
Surrogate: 1-Chlorooctane	112 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	123 9	% 63.6-15	4						

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.



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

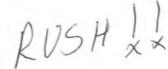
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Appendix C Photo Documentation

Burnett Gissler A-2 Battery

Unit Letter J&O, Section 14, T17S, R30E



Initial release area, facing northwest

3/20/14



Initial release area, facing northeast

3/20/14



Initial release area, facing southwest

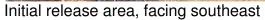
3/20/14



Initial release area, facing south

3/20/14





3/20/14



Hand augering for depth, facing west

3/27/14



Hand augering for depth, facing southwest

3/27/14



Installing vertical, facing west

9/11/14