



RECEIVED

By Kellie Jones at 12:28 pm, Oct 29, 2015

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

INFORMATION ONLY

October 21, 2015

JASON ROBINSON

CHISOS OPERATING

670 DONA ANA ROAD, SW

DEMMING, NM 88244

RE: JOHNS B 4 & 6 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/16/15 14:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 CHISOS OPERATING
 JASON ROBINSON
 670 DONA ANA ROAD, SW
 DEMMING NM, 88244
 Fax To:

Received:	10/16/2015	Sampling Date:	10/16/2015
Reported:	10/21/2015	Sampling Type:	Soil
Project Name:	JOHNS B 4 & 6 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: W. SIDE OF TB #6 @ 4' (H502712-01)

BTEX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.65	1.00	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	13.5	1.00	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	26.2	1.00	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	39.8	3.00	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTEX	81.1	6.00	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 66.2-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	10/19/2015	ND	416	104	400	16.7	

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	1520	200	10/19/2015	ND	200	100	200	2.18		
DRO >C10-C28	9150	200	10/19/2015	ND	215	108	200	2.00		

Surrogate: 1-Chlorooctane 144 % 47.2-157
Surrogate: 1-Chlorooctadecane 231 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received:	10/16/2015	Sampling Date:	10/16/2015
Reported:	10/21/2015	Sampling Type:	Soil
Project Name:	JOHNS B 4 & 6 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOIL ABOVE ROCK @ 3.5' (H502712-02)

BTEX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.246	0.050	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	<0.050	0.050	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	0.313	0.050	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	<0.150	0.150	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTEX	0.559	0.300	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 66.2-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/19/2015	ND	416	104	400	16.7	

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	<200	200	10/19/2015	ND	200	100	200	2.18		
DRO >C10-C28	1620	200	10/19/2015	ND	215	108	200	2.00		

Surrogate: 1-Chlorooctane 87.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 224 % 52.1-176

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Reported:	10/21/2015	Sampling Type:	Soil
Project Name:	JOHNS B 4 & 6 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: E. SIDE OF WATER TANK @ 4' (H502712-03)

BTEX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	4.69	2.00	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	19.1	2.00	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	37.9	6.00	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTEX	61.7	12.0	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 66.2-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	10/19/2015	ND	416	104	400	16.7	

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	4100	200	10/19/2015	ND	200	100	200	2.18		
DRO >C10-C28	13400	200	10/19/2015	ND	215	108	200	2.00		

Surrogate: 1-Chlorooctane 188 % 47.2-157

Surrogate: 1-Chlorooctadecane 339 % 52.1-176

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Reported:	10/21/2015	Sampling Type:	Soil
Project Name:	JOHNS B 4 & 6 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOIL ABOVE ROCK @ 3.5' (H502712-04)

BTEX 8021B		mg/L		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.806	0.200	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	3.98	0.200	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	11.9	0.200	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	14.4	0.600	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTEX	31.0	1.20	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 66.2-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	10/20/2015	ND	448	112	400	7.41	

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	648	200	10/19/2015	ND	200	100	200	2.18	
DRO >C10-C28	10700	200	10/19/2015	ND	215	108	200	2.00	

Surrogate: 1-Chlorooctane 127 % 47.2-157

Surrogate: 1-Chlorooctadecane 268 % 52.1-176

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Reported:	10/21/2015	Sampling Type:	Soil
Project Name:	JOHNS B 4 & 6 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE OF TANKS @ 4' (H502712-05)

BTEX 8021B		mg/L		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	0.406	0.100	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	3.49	0.100	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	4.53	0.300	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTEX	8.42	0.600	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 66.2-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	10/20/2015	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	284	100	10/19/2015	ND	200	100	200	2.18	
DRO >C10-C28	3880	100	10/19/2015	ND	215	108	200	2.00	

Surrogate: 1-Chlorooctane 129 % 47.2-157

Surrogate: 1-Chlorooctadecane 163 % 52.1-176

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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



Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Chisos
 Project Manager: Jason Robinson
 Address:
 City: Eunice State: NM Zip:
 Phone #: Fax #:
 Project #: Project Owner:
 Project Name: Johns B 44 to battery
 Project Location:
 Sampler Name: Aldert Sanchez
 FOR LAB USE ONLY

P.O. #:
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
H502712	W Side of TB to a 4'								12/16/15	10:30	✓	✓	
	1 Soil above rock @ 3.5'										✓	✓	
	2 E side of water tank @ 4'										✓	✓	
	3 Soil above rock @ 3.5'										✓	✓	
	4 Middle of tanks @ 4'										✓	✓	
	5										✓	✓	

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Relinquished By: Aldert Sanchez Date: 12/16/15
 Received By: Jason Robinson Date: 12/16/15
 Time: 9:15

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 3.40
 Sample Condition: Cool Intact
 Yes No

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: Jason Robinson