

## Jones, William V, EMNRD

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**From:** Brian Holladay <brian.holladay@live.com>  
**Sent:** Wednesday, October 07, 2015 1:19 PM  
**To:** Jones, William V, EMNRD; Lowe, Leonard, EMNRD  
**Cc:** Albert\_Giussani@oxy.com  
**Subject:** Bravo Dome Unit 2132-321G Soil Sample Results  
**Attachments:** Soil Sample Results 2132-321G.pdf

William & Leonard,

Here are the lab results from the 2132-321G. These soil samples were taken from 5 points under the plastic pit liner after it was removed from the drilling reserve pit. Please let me know when you receive this information, and as soon as I have your approval I can continue closing both the drilling reserve and deep burial trench.

Thanks,  
Brian Holladay  
806.231.1758  
brian.holladay@live.com

October 06, 2015

ALBERT GUISSANI  
OXY USA WTP, LP  
770 ROSEBUD HWY  
AMISTAD, NM 88410

RE: BRAVO DOME UNIT

Enclosed are the results of analyses for samples received by the laboratory on 10/01/15 12:40.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

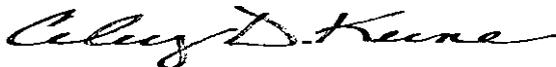
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:**

 OXY USA WTP, LP  
 ALBERT GUISSANI  
 770 ROSEBUD HWY  
 AMISTAD NM, 88410  
 Fax To:

 Received: 10/01/2015  
 Reported: 10/06/2015  
 Project Name: BRAVO DOME UNIT  
 Project Number: 1185647  
 Project Location: NOT GIVEN

 Sampling Date: 09/30/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Judy Garcia

**Sample ID: BDU 2132-321G #1 (H502602-01)**

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	10/06/2015	ND	2.15	107	2.00	0.188		
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346		
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130		
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119		
Total BTEX	<0.300	0.300	10/06/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	10/02/2015	ND	416	104	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	10/05/2015	ND	189	94.3	200	0.244		
DRO >C10-C28	16.6	10.0	10/05/2015	ND	205	103	200	2.42		

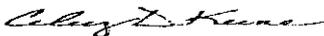
Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 OXY USA WTP, LP  
 ALBERT GUISSANI  
 770 ROSEBUD HWY  
 AMISTAD NM, 88410  
 Fax To:

 Received: 10/01/2015  
 Reported: 10/06/2015  
 Project Name: BRAVO DOME UNIT  
 Project Number: 1185647  
 Project Location: NOT GIVEN

 Sampling Date: 09/30/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Judy Garcia

**Sample ID: BDU 2132-321G #2 (H502602-02)**

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	10/06/2015	ND	2.15	107	2.00	0.188		
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346		
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130		
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119		
Total BTEX	<0.300	0.300	10/06/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/05/2015	ND	416	104	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	10/05/2015	ND	189	94.3	200	0.244		
DRO >C10-C28	<10.0	10.0	10/05/2015	ND	205	103	200	2.42		

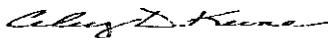
Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

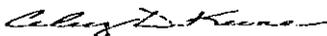
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

