

HUNGRY HORSE, LLC

3709 S. Eunice HWY
P.O. Box 1058
Hobbs, NM 88241
Office: 575-393-3386
Fax: 575-391-4585
info@hungry-horse.com

DIRT WORK * ON-SITE REMEDIATION
SOIL TESTING * EXCAVATION * ELECTRICAL

9Nov15

To: Heather Patterson, New Mexico Oil Conservation Division
Reference: Remediation Work Plan
Operator: Devon Energy Production
Location: Diamond PWU 22 #5H
API: 30-015-0822
Legals: UL. D, Sec. 22, T19S, R29E Eddy County, New Mexico
GPS: 32.6518 -104.0699
2RP-3352

Site History

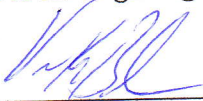
This site is located in rural Eddy County, NM on Curry Comb Road approximately 7.7 miles west of the intersection of Highway 360 and Curry Comb Road. This is an active well/battery site. The New Mexico Office of the State Engineer's website, list no ground water data for Section 22 or for Section 21 in Township 19S, Range 29E. The Eddy County Depth to Groundwater Map indicates depth to groundwater to be 100'. This release of produced water/oil that occurred on 22Oct15, remained on the caliche well pad and had no impact off site.

Work Conducted To Date

Upon discovery of the release, the well was shut in and a vacuum truck was used to recover all free standing liquids. On 28Oct15, soil sampling was conducted at two separate sample points using hand tools. Samples were obtained at Surface, .5' BGS, and 1.5' BGS. Lab analysis was conducted. See attached lab report and map with sample points. The impacted area of the pad is an irregular configuration that is approximately 250' x 170'.

Remediation Proposal

The lab analysis indicates that the downward migration of the released fluids was limited to the top 6" of the compacted caliche pad. I propose to mechanically remove this impacted layer. All impacted soil will be transported to a division approved facility and fresh material will be used to backfill the excavated area. The area will then be compacted and brought back to its original grade.



Vernon K. Black, Hungry Horse, LLC

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

NAME NAB1529941728 **OPERATOR** ☒ Initial Report ☐ Final Report
Name of Company Devon Energy Production 6137 **Contact** Rudy Zuniga
Address 6488 Seven Rivers Hwy Artesia, NM 88220 **Telephone No.** 575-390-5435
Facility Name Diamond PWU 22-5H **Facility Type** Oil
Surface Owner State **Mineral Owner** State **API No.** 30-015-40822

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	22	19S	29E	725	North	330	West	Eddy

Latitude: N 32° 65' 14.21"

Longitude: W 104° 06' 96.26"

NATURE OF RELEASE

Type of Release Spill <u>Produced Water and Oil</u>	Volume of Release <u>6 bbls oil and 4 bbls water</u>	Volume Recovered <u>3 bbls oil and 2 bbls produced water</u>
Source of Release <u>Frac Tank over flowed</u>	Date and Hour of Occurrence <u>10/22/2015 @ 11:20 AM</u>	Date and Hour of Discovery <u>10/22/2015 @ 11:20 AM</u>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>Mike Bratcher OCD</u>	
By Whom? <u>Jesse Armendariz, Assistant Production Foreman</u>	Date and Hour <u>10.22.2015 @ 11:45 am</u>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse <u>N/A</u>	
If a Watercourse was Impacted, Describe Fully.* <u>N/A</u>		

NM OIL CONSERVATION
ARTESIA DISTRICT
OCT 23 2015

RECEIVED

Describe Cause of Problem and Remedial Action Taken.*
Frac tank burped causing a 6 bbl oil and 4 bbl produced water release. Well was immediately shut in to prevent further release.

Describe Area Affected and Cleanup Action Taken.*
6 bbls oil and 4 bbls produced water was released on the North, North West side of the facility. 3 bbls oil and 2 bbls produced water was recovered via vacuum truck. The affected area was a 100 x 50 and all released fluid remained on location. Environmental Agency to be contacted for remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <u>Corina Moya</u>	OIL CONSERVATION DIVISION	
Printed Name: <u>Corina Moya</u>	Approved by Environmental Specialist: <u>[Signature]</u>	
Title: <u>Field Admin Support</u>	Approval Date: <u>10/26/15</u>	Expiration Date: <u>N/A</u>
E-mail Address: <u>corina.moya@dvn.com</u>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>10/22/2015</u> Phone: <u>575.746.5559</u>	Remediation per O.C.D. Rules & Guidelines	

* Attach Additional Sheets If Necessary

SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 11/26/15

2RP-3352



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

No records found.

PLSS Search:

Section(s): 22

Township: 19S

Range: 29E

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.



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

No records found.

PLSS Search:

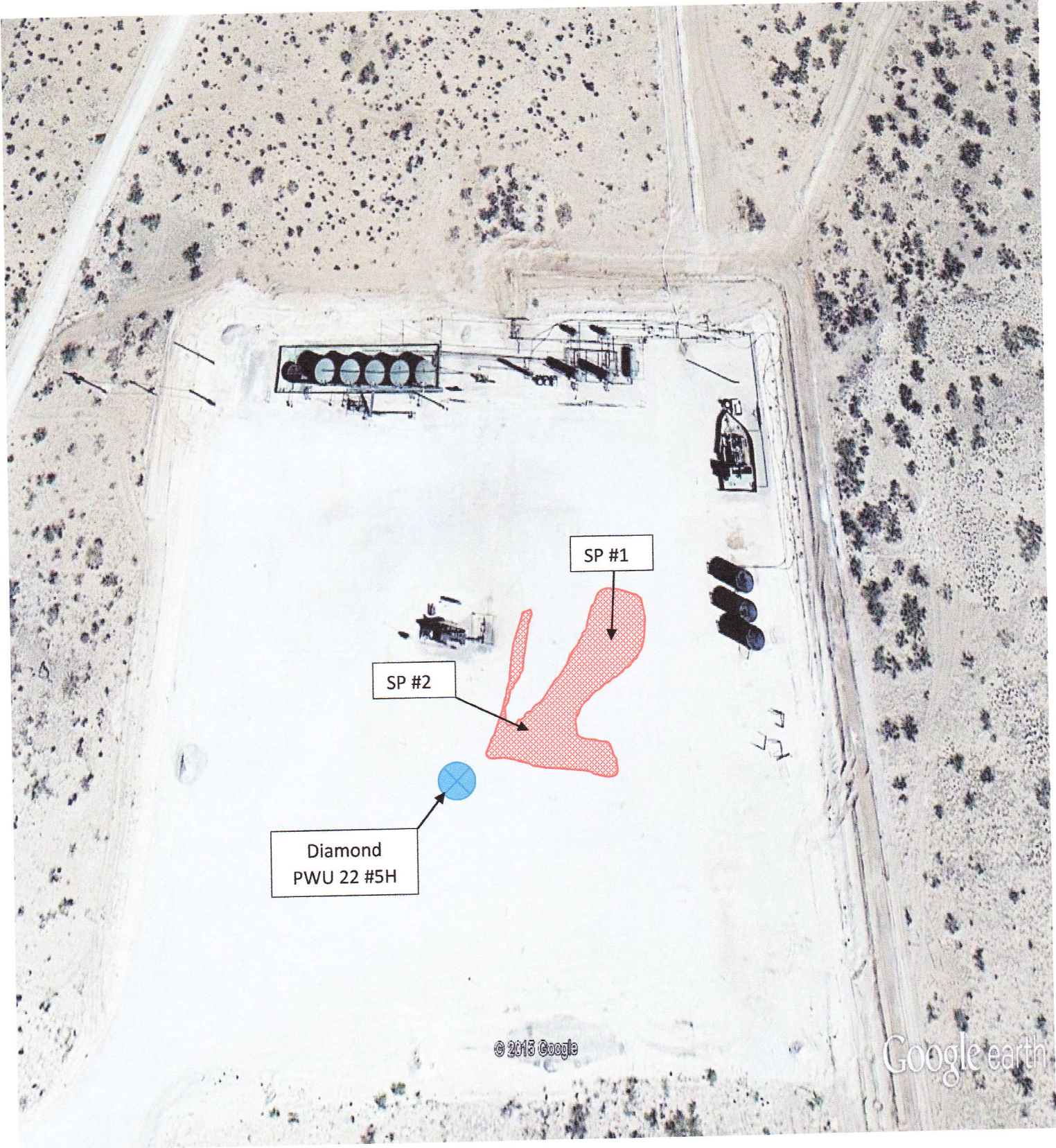
Section(s): 21

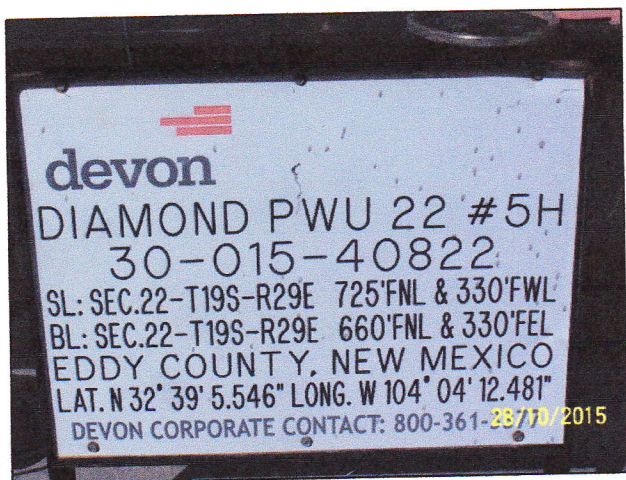
Township: 19S

Range: 29E

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Devon Diamond PWU 22 #5H





Lab Results

Operator: Devon Energy Production

Location: Diamond PWU 22 #5H

Date: 9Nov15

BTEX

[illegible]

Chlorides

[illegible]

ТРН

[illegible]

All result are given as Parts Per Million (PPM).



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

November 06, 2015

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: DIAMOND PWU 22 #5H

Enclosed are the results of analyses for samples received by the laboratory on 10/30/15 16:15.

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

Cardinal Laboratories is 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:

Hungry Horse Environmental
VERNON BLACK
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received: 10/30/2015
Reported: 11/06/2015
Project Name: DIAMOND PWU 22 #5H
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/30/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP. #1 @ SURFACE (H502863-01)

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/05/2015	ND	2.08	104	2.00	2.22	
Toluene*	16.7	0.500	11/05/2015	ND	2.28	114	2.00	2.94	
Ethylbenzene*	19.4	0.500	11/05/2015	ND	2.06	103	2.00	3.69	
Total Xylenes*	70.5	1.50	11/05/2015	ND	6.56	109	6.00	3.57	
Total BTX	107	3.00	11/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 73.6-140

Chloride, SM4500Cl-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	11/04/2015	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	1170	50.0	11/04/2015	ND	212	106	200	1.40	
DRO >C10-C28	25600	50.0	11/04/2015	ND	218	109	200	2.41	

Surrogate: 1-Chlorooctane 173 % 35-147

Surrogate: 1-Chlorooctadecane 799 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Hobbs NM, 88240
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Received: 10/30/2015
Reported: 11/06/2015
Project Name: DIAMOND PWU 22 #5H
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/30/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP. #1 @ .5 BGS (H502863-02)

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	11/05/2015	ND	2.08	104	2.00	2.22	
Toluene*	0.617	0.050	11/05/2015	ND	2.28	114	2.00	2.94	
Ethylbenzene*	1.40	0.050	11/05/2015	ND	2.06	103	2.00	3.69	
Total Xylenes*	5.70	0.150	11/05/2015	ND	6.56	109	6.00	3.57	
Total BTEX	7.71	0.300	11/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 124 % 73.6-140

Chloride, SM4500Cl-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	11/04/2015	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	94.6	10.0	11/04/2015	ND	212	106	200	1.40	
DRO >C10-C28	1380	10.0	11/04/2015	ND	218	109	200	2.41	

Surrogate: 1-Chlorooctane 115 % 35-147

Surrogate: 1-Chlorooctadecane 139 % 28-171

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Fax To: (505) 391-4585

Received: 10/30/2015
Reported: 11/06/2015
Project Name: DIAMOND PWU 22 #5H
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/30/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP. #1 @ 1.5' BGS (H502863-03)

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	11/05/2015	ND	2.08	104	2.00	2.22		
Toluene*	<0.050	0.050	11/05/2015	ND	2.28	114	2.00	2.94		
Ethylbenzene*	<0.050	0.050	11/05/2015	ND	2.06	103	2.00	3.69		
Total Xylenes*	<0.150	0.150	11/05/2015	ND	6.56	109	6.00	3.57		
Total BTEX	<0.300	0.300	11/05/2015	ND						

Surrogate: 4-Bromofluorobenzene (PII) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/ kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/04/2015	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	11/04/2015	ND	212	106	200	1.40		
DRO >C10-C28	144	10.0	11/04/2015	ND	218	109	200	2.41		

Surrogate: 1-Chlorooctane 118 % 35-147

Surrogate: 1-Chlorooctadecane 136 % 28-171

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Received: 10/30/2015
Reported: 11/06/2015
Project Name: DIAMOND PWU 22 #5H
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/30/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP. #2 @ SURFACE (H502863-04)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.11	0.500	11/05/2015	ND	2.08	104	2.00	2.22	
Toluene*	19.3	0.500	11/05/2015	ND	2.28	114	2.00	2.94	
Ethylbenzene*	12.0	0.500	11/05/2015	ND	2.06	103	2.00	3.69	
Total Xylenes*	41.9	1.50	11/05/2015	ND	6.56	109	6.00	3.57	
Total BTX	74.4	3.00	11/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7920	16.0	11/04/2015	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	974	50.0	11/04/2015	ND	212	106	200	1.40	
DRO >C10-C28	10100	50.0	11/04/2015	ND	218	109	200	2.41	

Surrogate: 1-Chlorooctane 189 % 35-147

Surrogate: 1-Chlorooctadecane 318 % 28-171

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Received: 10/30/2015
Reported: 11/06/2015
Project Name: DIAMOND PWU 22 #5H
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/30/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP. #2 @ .5 BGS (H502863-05)

BTX 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	11/05/2015	ND	2.08	104	2.00	2.22				
Toluene*	<0.050	0.050	11/05/2015	ND	2.28	114	2.00	2.94				
Ethylbenzene*	<0.050	0.050	11/05/2015	ND	2.06	103	2.00	3.69				
Total Xylenes*	<0.150	0.150	11/05/2015	ND	6.56	109	6.00	3.57				
Total BTX	<0.300	0.300	11/05/2015	ND								

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 73.6-140

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	240	16.0	11/04/2015	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	11/04/2015	ND	212	106	200	1.40			
DRO >C10-C28	59.3	10.0	11/04/2015	ND	218	109	200	2.41			

Surrogate: 1-Chlorooctane 114 % 35-147

Surrogate: 1-Chlorooctadecane 129 % 28-171

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 Received: 10/30/2015
 Reported: 11/06/2015
 Project Name: DIAMOND PWU 22 #5H
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/30/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP. #2 @ 1.5' BGS (H502863-06)

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	11/05/2015	ND	2.08	104	2.00	2.22	
Toluene*	<0.050	0.050	11/05/2015	ND	2.28	114	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/05/2015	ND	2.06	103	2.00	3.69	
Total Xylenes*	<0.150	0.150	11/05/2015	ND	6.56	109	6.00	3.57	
Total BTEX	<0.300	0.300	11/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	11/04/2015	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	11/04/2015	ND	212	106	200	1.40	
DRO >C10-C28	<10.0	10.0	11/04/2015	ND	218	109	200	2.41	

Surrogate: 1-Chlorooctane 113 % 35-147

Surrogate: 1-Chlorooctadecane 128 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

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.
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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