# 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

10Feb16

To: Heather Patterson, New Mexico Oil Conservation Division, Dist. II

Dara Glass, Bureau of Land Management

Reference: Remediation

Operator: Devon Energy Production Company

Location: Bellatrix 28 Fed #1H

API: 30-025-40331

Legals: UL. A, Sec. 29, T19S, R31E, Eddy County, NM

GPS: 32.635 -103.885 NM OCD: 2RP-3478

This site is located off CR 222 (Shugart Road) due north of the Slash X ranch house. The site is an active production pad with two wells, a battery, and surface vessels with associated piping. The terrain around the site is relatively flat with sparse vegetation and sand dunes. There are no know water wells or surface bodies of water within 1000' of this site. The New Mexico Office of the State Engineer website lists no groundwater data for this site. However, the Eddy County Depth to Groundwater Map indicates groundwater to be 125'.

This release is primarily an overspray impacting an area inside the fence with above ground vessels/piping and an area outside the fence approximately 125' x 75'.

A delineation of the overspray area was conducted using a hand auger with three spots being selected for sampling, one inside the facility and two outside the fence in the pasture. (See overhead map) Samples were obtained at the surface and at 6" BGS and analyzed for TPH, BTEX, and Chlorides. Lab analysis indicates that Chlorides and BTEX are not contaminants of concern for this release. However, TPH levels at the surface were elevated but at 6" were within closure limits.

Due to the TPH levels being contained to the top couple of inches of soil with little to no downward migration, I propose to apply a very liberal application of a MicroBlaze solution and use large landscape rakes to blend in the solution while breaking the "crust" of the hydrocarbons. This proven remediation for hydrocarbons will not only address the surface contamination, but will cause the least amount surface disturbance outside the fence.

Confirmation samples from the same sample points will be obtained and analyzed 60-90 days after application. Results will be presented for closure request.

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 Bražos 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 NM OIL CONSERVATION Form C-141
ARTESIA DISTRICT Revised August 8, 2011

Submit NC0p7 to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

|  |                 |                | Rele                          | ase Notific                              | ation       | and Co  | rrective A                              | ction        |            |              |   |  |  |
|--|-----------------|----------------|-------------------------------|--|-------------|---|---|--------------|------------|--------------|---|--|--|
| NABIL  | 8,16800         | 04             |                               | 1013                                     | 7           | OPERATOR   Initial Report   Final Report                    |   |              |            |              |   |  |  |
| Name of Co   | mnany De        | von Energy     | Producti                      |  | (           | Contact Rudy Zuniga Production Foreman                      |   |              |            |              |   |  |  |
|  |                 |                |                               |  |             |   | <b>Telephone No.</b> 575-390-5435       |              |            |              |   |  |  |
| Facility Na  | me Bellatri     | x 28 Fed 1H    | I                             | Facility Typ                             | e Oil Well  |   | •                                       |              |            |              |   |  |  |
| Surface Ov   |                 |                | Owner                         | Federal                                  |             | I   | API No                                  | 30-015-      | -40331     |              |   |  |  |
| Burrace o .  |                 |                |                               | LOCA                                     | TION        | OF REI  | LEASE                                   |              |            |              |   |  |  |
| Unit Letter  | Section         | Township       | Range                         | Feet from the                            |             | South Line  |   | County       |            |              |   |  |  |
|  | 29              | 198            | 31E                           | 920                                      | 1           | North 790 East Eddy   |   |              |            |              |   |  |  |
| A 29 198 31E 320 Longitude: W-103'88'53.74"  Latitude: N-32'63'61.24" Longitude: W-103'88'53.74" |                 |                |                               |  |             |   |   |              |            |              |   |  |  |
|  |                 |                | Secretary Secretary Secretary | 34124 <sub>NAT</sub>                     |             |   | 11                                      | 03,88        | 5379       | 1            |   |  |  |
|  |                 |                |                               | NAI                                      | UKE         | Volume of   | Release 1.5 bbls                        | s oil V      | olume R    | Recovered    | 0 bbls  |  |  |
| Type of Rele   | ease Spill      | Oil            |                               |  |             |   | Hour of Occurre                         | nce D        |            | Hour of D    | Discovery   |  |  |
| Source of R<br>Pressure val  | elease          |                |                               |  |             | 1.2.16 @9   | :30 am                                  | 1.           | .2.16 @9   | ):30 am      |   |  |  |
| Was Immed  | liate Notice    | Given?         |                               |  |             | If YES, T   | Whom?                                   |              |            |              |   |  |  |
|  |                 | $\boxtimes$    | Yes                           | No Not R                                 | equired     | Dara Glass  |   |              |            |              |   |  |  |
| D. Whom?   | Jaco Arme       | endariz Assis  | tant Produ                    | iction Foreman                           |             | Date and  | Hour                                    |              |            |              |   |  |  |
| By Wnom?   | Jesse Ami       | muariz Assis   | tant rious                    |  |             | 1.2.16 @ 12:00 pm   |   |              |            |              |   |  |  |
|  |                 |                |                               |  |             | 1.2.16 @ 12:10 pm  If YES, Volume Impacting the Watercourse |   |              |            |              |   |  |  |
| Was a Wate   | ercourse Re     | ached?         |                               | 7 No                                     |             | N/A   | olume Impacting                         | g the wate   | reourse    |              |   |  |  |
|  |                 | 02             | Yes 🗵                         |  |             | 1   |   |              |            |              |   |  |  |
| NI/A   |                 | mpacted, De    |                               |  |             |   |   |              |            |              |   |  |  |
| Describe Ca  | ause of Prol    | olem and Rei   | nedial Ac                     | tion Taken.*                             | - agusins   | 1.5 bbls oil  | release. Well was                       | shut in to   | prevent f  | urther rele  | ase. Took apart   |  |  |
| Ice plug due   | to cold wea     | ther caused p  | ressure va<br>d flushed       | methanol down l                          | ine and r   | out back toge   | her.                                    | v            |            |              |   |  |  |
|  |                 |                |                               |  |             |   |   |              |            |              |   |  |  |
| Describe A   | rea Affected    | l and Cleanu   | p Action                      | Taken.*                                  | allity off  | the pad Nor   | e of the spill was                      | recovered.   | The area   | a was a 20   | 'x30' where it sprayed                                    |  |  |
| 1 5 bble oil   | was release     | d on the South | 1. South w                    | est side of the fa-<br>cted for remediat | ion.        | the pau. Noi  | ie of the spin was                      |              |            |              |   |  |  |
| off the pad.   | Environme       | ntal Agency i  | ) be coma                     | eted for formedia.                       |             |   |   |              |            |              |   |  |  |
|  |                 |                |                               |  | 1           | the best of m   | y knowledge and                         | understand   | that pur   | suant to N   | MOCD rules and  |  |  |
| I hereby cer   | tify that the   | information g  | iven abov                     | e is true and com                        | release     | notifications   | and perform corre                       | ective actio | ns for rel | leases which | MOCD rules and<br>ch may endanger<br>perator of liability |  |  |
| regulations  | all operators   | ironment. Th   | to report a                   | and/of the certain                       | port by the | ne NMOCD  | narked as "Final"                       | Report" do   | es not rel | lieve the of | perator of liability<br>water, human health               |  |  |
| should their   | r operations    | have failed to | adequatel                     | y investigate and                        | remedia     | te contamina  | tion that pose a th                     | reat to gro  | und wate   | er, surrace  | water, human health<br>with any other                     |  |  |
| or the envir   | onment. In      | addition, NM   | OCD acce                      | eptance of a C-14                        | 1 report    | does not relie  | ive the operator o                      | responsib    | nity for c | Compilation  | , man and   |  |  |
| federal, stat  | te, or local la | aws and/or reg | gulations.                    |  |             |   | OIL CON                                 | VSER V       | MOITA      | DIVIS        | 10N   |  |  |
|  |                 |                |                               |  | 8. 10       |   | OIL COI                                 | TOLIC VI     | / /        | 1/           | 7   |  |  |
| Signature:   | Corina          | моуа           |                               |  |             |   |   |              | 4          |              | h   |  |  |
| Printed Na   | me: Corina      | Moya           |                               |  |             | Approved b  | y Environmental                         |              | 0 1        | 1            |   |  |  |
|  |                 | ,              |                               |  |             | Approval D  | vate: 118/16                            | E            | xpiration  | Date: N      | <u>A</u>  |  |  |
| Title: Field   | Admin Su        | pport          |                               |  |             |   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |              |            |              |   |  |  |
| F-mail Add   | dress: corina   | a.moya@dvn     | .com                          |  |             | Conditions  | of Approval: on per O.C.D.              |              | مامليم     | Attach       | ied 🔲   |  |  |
| D-man Au   | ulobs, collin   |                |                               |  | Į           | Remediati   | on per O.C.D.                           | Rules &      | GUIGE      | 0            |   |  |  |
| Date:  | 1.7.15          |                | ne: 575.7                     | 46.5559                                  |             |   |   |              | DAL IN     | ^            | 00 21/19  |  |  |
| * Attach Ad  | ditional Sh     | eets If Nece   | ssary                         |  | *           | LATER TH  | AN: 3 8                                 | W            |            | 7            | RP.3418   |  |  |



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

No records found.

PLSS Search:

Section(s): 29

Township: 19S

Range: 31E



Impacted area is approximately 10' x 10' inside the fence and 125' x 75' outside fence and on sand berm.

# Devon Energy Production Company-Bellatrix 28 Fed #1H















February 05, 2016

VERNON BLACK
Hungry Horse Environmental
P.O. Box 1058
Hobbs, NM 88240

RE: BELLATRIX 28 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 02/02/16 8:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

Celes Deene

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



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To:

35-147

28-171

116%

480 %

(505) 391-4585

Received:

02/02/2016

Reported:

02/05/2016

NONE GIVEN

Project Name:

BELLATRIX 28 FED #1

EDDY COUNTY, NM

Project Number:

Project Location:

Sampling Date:

02/01/2016

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

Sample ID: SP 1 SURFACE (H600232-01)

| Sample 1D: SP 1 SURFACE (NO. BTEX 8021B | mg/kg            |   | Analyzed By: MS |              |      |                |               |      |           |
|---|------------------|---|-----------------|--------------|------|----------------|---------------|------|-----------|
| Analyte                                 | Result           | Reporting Limit                         | Analyzed        | Method Blank | BS   | % Recovery     | True Value QC | RPD  | Qualifier |
|   | < 0.050          | 0.050                                   | 02/04/2016      | ND           | 1.99 | 99.5           | 2.00          | 4.25 |           |
| Benzene*                                | < 0.050          | 0.050                                   | 02/04/2016      | ND           | 1.93 | 96.5           | 2.00          | 5.27 |           |
| Toluene*                                |                  | 0.050                                   | 02/04/2016      | ND           | 1.75 | 87.3           | 2.00          | 5.31 |           |
| Ethylbenzene*                           | < 0.050          | 0.050                                   | 02/04/2016      | ND           | 5.35 | 89.1           | 6.00          | 5.27 |           |
| Total Xylenes*<br>Total BTEX            | <0.150<br><0.300 | 0.300                                   | 02/04/2016      | ND           |      |                |               |      |           |
|   | 108              | % 73.6-14                               | 10              |              |      |                |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL    |                  | 0.0000000000000000000000000000000000000 |                 | J D.v. AD    |      |                |               |      |           |
| Chloride, SM4500Cl-B                    | mg,              | /kg                                     | Anaiyze         | d By: AP     |      |                |               |      |           |
| Analyte                                 | Result           | Reporting Limit                         | Analyzed        | Method Blank | BS   | % Recovery     | True Value QC | RPD  | Qualifie  |
|   | 256              | 16.0                                    | 02/03/2016      | ND           | 432  | 108            | 400           | 0.00 |           |
| Chloride                                | mg               |   | Analyzed By: MS |              |      |                |               |      | S-06      |
| TPH 8015M                               | ilig             |   |                 |              | BS   | % Recovery     | True Value QC | RPD  | Qualifie  |
| Analyte                                 | Result           | Reporting Limit                         | Analyzed        | Method Blank | 05   | COOK ACCORDING |               |      |           |
| GRO C6-C10                              | 60.3             | 50.0                                    | 02/02/2016      | ND           | 214  | 107            | 200           | 2.54 |           |
| DRO >C10-C28                            | 18100            | 50.0                                    | 02/02/2016      | ND           | 208  | 104            | 200           | 6.50 |           |

# Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celeg to Freno



Hungry Horse Environmental **VERNON BLACK** P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

02/02/2016

Reported:

02/05/2016

NONE GIVEN

Project Name:

BELLATRIX 28 FED #1

Project Number: Project Location:

EDDY COUNTY, NM

Sampling Date:

02/01/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

| Result <0.050 <0.050 <0.050 <0.050 <0.150 | Reporting Limit 0.050 0.050 0.050 0.150 | Analyzed 02/04/2016 02/04/2016 02/04/2016  | Method Blank  ND  ND  ND   | BS<br>1.99<br>1.93  | % Recovery<br>99.5<br>96.5   | True Value QC<br>2.00<br>2.00  | RPD<br>4.25<br>5.27   | Qualifier   |
|---|---|--|--|---|--|--|---|---|
| <0.050<br><0.050<br><0.050<br><0.150      | 0.050<br>0.050                          | 02/04/2016   | ND   | 1.93  | 96.5   | 2.00   |   |   |
| <0.050<br><0.050<br><0.150                | 0.050<br>0.050                          | 02/04/2016   |  |   |  |  | 5.27  |   |
| <0.050<br><0.150                          | 0.050                                   | 02/04/2016   | ND   | 1 75  | Toward the   |  |   |   |
| <0.150                                    |   |  |  | 1.75  | 87.3   | 2.00   | 5.31  |   |
|   | 0.130                                   | 02/04/2016   | ND   | 5.35  | 89.1   | 6.00   | 5.27  |   |
| < 0.300                                   | 0.300                                   | 02/04/2016   | ND   |   |  |  |   |   |
| 111 9                                     | 73.6-14                                 |  |  |   |  |  |   |   |
| mg/                                       | kg                                      | Analyze  | d By: AP   |   |  |  |   |   |
| Result                                    | Reporting Limit                         | Analyzed   | Method Blank   | BS  | % Recovery   | True Value QC  | RPD   | Qualifie  |
| 48.0                                      | 16.0                                    | 02/03/2016   | ND   | 432   | 108  | 400  | 0.00  |   |
| mg  | /kg                                     | Analyze  | d By: MS   |   |  |  |   |   |
|   |   | Analyzed   | Method Blank   | BS  | % Recovery   | True Value QC  | RPD   | Qualifie  |
|   | Special Production of the Park          | 02/02/2016   | ND   | 214   | 107  | 200  | 2.54  |   |
|   |   |  | ND   | 208   | 104  | 200  | 6.50  |   |
| 66.1                                      | 10.0                                    | 02/02/2010   | 110  |   |  |  |   |   |
| 72.8                                      | % 35-14                                 | 7  |  |   |  |  |   |   |
| 83.7                                      | % 28-17                                 | <sup>1</sup> I   |  |   |  |  |   |   |
|   | mg/ Result 48.0 mg/ Result <10.0 66.1   | ### 73.6-14    mg/kg     Result   Reporting Limit     48.0   16.0     mg/kg     Result   Reporting Limit     <10.0   10.0     66.1   10.0     72.8 %   35-14 | 73.6-140         mg/kg       Analyze         Result       Reporting Limit       Analyzed         48.0       16.0       02/03/2016         mg/kg       Analyzed         Result       Reporting Limit       Analyzed         <10.0 | 73.6-140           mg/kg         Analyzed By: AP           Result Reporting Limit Analyzed Method Blank           48.0         16.0         02/03/2016 ND         ND           mg/kg         Analyzed By: MS           Result Reporting Limit Analyzed Nethod Blank           <10.0 | 73.6-140         mg/kg       Analyzed By: AP         Result Reporting Limit Analyzed Method Blank BS         48.0       16.0       02/03/2016 ND       ND       432         mg/kg       Analyzed By: MS         Result Reporting Limit Analyzed Method Blank SS       85         <10.0 | 1/11 % 73.6-140         mg/kg       Analyzed By: AP         Result Reporting Limit Analyzed ND 432 108         Method Blank BS % Recovery         Manalyzed By: MS         Result Reporting Limit Analyzed Method Blank BS % Recovery         <10.0 10.0 02/02/2016 ND 214 107 | 1/11 % 73.6-140         mg/kg       Analyzed By: AP         Result       Reporting Limit       Analyzed       Method Blank       BS       % Recovery       True Value QC         48.0       16.0       02/03/2016       ND       432       108       400         mg/kg       Analyzed By: MS       Method Blank       BS       % Recovery       True Value QC         <10.0 | 111 % 73.6-140         mg/kg       Analyzed By: AP         Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 43.0 16.0 02/03/2016 ND 432 108 400 0.00         mg/kg       Analyzed By: MS         Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 41.0.0 10.0 02/02/2016 ND 214 107 200 2.54         66.1       10.0       02/02/2016 ND 208 104 200 6.50 |

# Cardinal Laboratories

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Calego trene



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

02/02/2016

Reported:

02/05/2016

NONE GIVEN

Project Name:

BELLATRIX 28 FED #1

Project Number: Project Location:

EDDY COUNTY, NM

Sampling Date:

02/01/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

Sample ID: SP 2 SURFACE (H600232-03)

| Sample ID: SP 2 SURFACE (HBC<br>BTEX 8021B   | mg/     |                 | Analyzed        | By: MS       |      |            |               |      |           |
|--|---------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte  | Result  | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| ***  | < 0.050 | 0.050           | 02/04/2016      | ND           | 1.99 | 99.5       | 2.00          | 4.25 |           |
| Benzene*   | <0.050  | 0.050           | 02/04/2016      | ND           | 1.93 | 96.5       | 2.00          | 5.27 |           |
| Toluene*   | < 0.050 | 0.050           | 02/04/2016      | ND           | 1.75 | 87.3       | 2.00          | 5.31 |           |
| Ethylbenzene*  | < 0.150 | 0.150           | 02/04/2016      | ND           | 5.35 | 89.1       | 6.00          | 5.27 |           |
| Total Xylenes*<br>Total BTEX   | <0.300  | 0.300           | 02/04/2016      | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL   | 106     | % 73.6-14       | 10              |              |      |            |               |      |           |
| Chloride, SM4500Cl-B   | mg/kg   |                 | Analyzed By: AP |              |      |            |               |      | - 116     |
| La company of the com | Result  | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Analyte  | 496     | 16.0            | 02/03/2016      | ND           | 432  | 108        | 400           | 0.00 |           |
| Chloride   |         |                 |                 | ed By: MS    |      |            |               |      | S-06      |
| TPH 8015M  |         | /kg             | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Analyte  | Result  | Reporting Limit |                 | ND           | 214  | 107        | 200           | 2.54 |           |
| GRO C6-C10   | <50.0   | 50.0            | 02/02/2016      | ND           | 208  | 104        | 200           | 6.50 |           |
| DRO >C10-C28   | 7440    | 50.0            | 02/02/2016      | NU           | 200  | 10.        |               |      |           |
| Surrogate: 1-Chlorooctane  | 84.6    | % 35-14         | 17              |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane  | 213     | % 28-17         | 71              |              |      |            |               |      |           |

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Celego Frence

Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

02/02/2016

Reported:

02/05/2016

Project Name:

BELLATRIX 28 FED #1

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

02/01/2016

Sampling Type:

Sampling Condition: Sample Received By:

\*\* (See Notes)

Jodi Henson

Sample ID: SP 2 6" (H600232-04)

| Sample ID: SP 2 6'' (H600232-<br>BTEX 8021B | mg/          | kg              | Analyzed By: MS |              |      |            |               |      |           |
|---|--------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte                                     | Result       | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| *   | < 0.050      | 0.050           | 02/04/2016      | ND           | 1.99 | 99.5       | 2.00          | 4.25 |           |
| Benzene*                                    | < 0.050      | 0.050           | 02/04/2016      | ND           | 1.93 | 96.5       | 2.00          | 5.27 |           |
| Foluene*                                    | < 0.050      | 0.050           | 02/04/2016      | ND           | 1.75 | 87.3       | 2.00          | 5.31 |           |
| Ethylbenzene*                               | <0.150       | 0.150           | 02/04/2016      | ND           | 5.35 | 89.1       | 6.00          | 5.27 |           |
| Total Xylenes*<br>Total BTEX                | <0.300       | 0.300           | 02/04/2016      | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIE        | 107          | % 73.6-14       |                 |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                        | mg/kg        |                 | Analyzed By: AP |              |      |            |               |      |           |
| Analyte                                     | Result       | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifie  |
| ,   | 480          | 16.0            | 02/03/2016      | ND           | 432  | 108        | 400           | 0.00 |           |
| Chloride                                    |              |                 | Analyzed By: MS |              |      |            |               |      |           |
| TPH 8015M                                   | mg<br>Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifie  |
| Analyte                                     |              | 10.0            | 02/02/2016      | ND           | 214  | 107        | 200           | 2.54 |           |
| GRO C6-C10                                  | <10.0        |                 | 02/02/2016      | ND           | 208  | 104        | 200           | 6.50 |           |
| DRO >C10-C28                                | 116          | 10.0            | 02/02/2010      | 110          |      |            |               |      |           |
| Surrogate: 1-Chlorooctane                   | 79.2         | % 35-14         | 7               |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane               | 90.0         | % 28-17         | I               |              |      |            |               |      |           |

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02/02/2016

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02/05/2016

Project Name:

BELLATRIX 28 FED #1

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

02/01/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

# Sample ID: SP 3 SURFACE (H600232-05)

| Sample 1D. 3F 3 30Kl ACE (1104)      | mg/     | kg              | Analyzed By: MS |                 |      |            |               |      |           |
|--------------------------------------|---------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte                              | Result  | Reporting Limit | Analyzed        | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| •                                    | < 0.050 | 0.050           | 02/04/2016      | ND              | 1.99 | 99.5       | 2.00          | 4.25 |           |
| Benzene*                             | <0.050  | 0.050           | 02/04/2016      | ND              | 1.93 | 96.5       | 2.00          | 5.27 |           |
| Toluene*                             | < 0.050 | 0.050           | 02/04/2016      | ND              | 1.75 | 87.3       | 2.00          | 5.31 |           |
| Ethylbenzene*                        | < 0.150 | 0.150           | 02/04/2016      | ND              | 5.35 | 89.1       | 6.00          | 5.27 |           |
| Total Xylenes*<br>Total BTEX         | <0.300  | 0.300           | 02/04/2016      | ND              |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 111 9   | % 73.6-14       |                 |                 |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/kg   |                 | Analyzed By: AP |                 |      |            |               |      |           |
| Analyte                              | Result  | Reporting Limit | Analyzed        | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| ,                                    | 128     | 16.0            | 02/03/2016      | ND              | 448  | 112        | 400           | 7.41 |           |
| Chloride                             | mg      |                 | Analyze         | Analyzed By: MS |      |            |               |      |           |
| TPH 8015M                            | Result  | Reporting Limit | Analyzed        | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Analyte                              |         | 10.0            | 02/03/2016      | ND              | 211  | 105        | 200           | 2.58 |           |
| GRO C6-C10                           | <10.0   |                 | 02/03/2016      | ND              | 202  | 101        | 200           | 4.11 |           |
| DRO >C10-C28                         | 3790    | 10.0            | 02/03/2010      | 110             |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 88.5    | % 35-14         | 7               |                 |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 152     | % 28-17         | I               |                 |      |            |               |      |           |

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02/05/2016

Project Name:

BELLATRIX 28 FED #1

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

02/01/2016

Sampling Type:

Sampling Condition:

\*\* (See Notes)

Jodi Henson Sample Received By:

Sample ID: SP 3 6" (H600232-06)

| BTEX 8021B                           | mg/     | kg              | Analyze    | By: MS       |      |            |               |      |           |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| ,                                    | < 0.050 | 0.050           | 02/05/2016 | ND           | 1.99 | 99.5       | 2.00          | 4.25 |           |
| Benzene*                             | < 0.050 | 0.050           | 02/05/2016 | ND           | 1.93 | 96.5       | 2.00          | 5.27 |           |
| Foluene*                             |         | 0.050           | 02/05/2016 | ND           | 1.75 | 87.3       | 2.00          | 5.31 |           |
| Ethylbenzene*                        | <0.050  |                 | 02/05/2016 | ND           | 5.35 | 89.1       | 6.00          | 5.27 |           |
| Total Xylenes*                       | <0.150  | 0.150           | 02/05/2016 | ND           |      |            |               |      |           |
| Total BTEX                           | <0.300  | 0.300           | 02/03/2010 | 110          |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIE | 103     | % 73.6-14       | 10         |              |      |            |               |      |           |
|                                      | mg      | /kg             | Analyze    | d By: AP     |      |            |               |      |           |
| Chloride, SM4500CI-B                 | Result  | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Analyte                              |         | 16.0            | 02/03/2016 | ND           | 448  | 112        | 400           | 7.41 |           |
| Chloride                             | 16.0    |                 |            | J D MC       |      |            |               |      |           |
| TPH 8015M                            | mg      | /kg             | Analyze    | ed By: MS    |      |            |               |      | - 116     |
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
|                                      | <10.0   | 10.0            | 02/03/2016 | ND           | 211  | 105        | 200           | 2.58 |           |
| GRO C6-C10                           | 51.1    | 10.0            | 02/03/2016 | ND           | 202  | 101        | 200           | 4.11 |           |
| DRO >C10-C28                         | 51.1    | 10.0            | ,,         |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 80.7    | 35-14           | 7          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 85.7    | 7 % 28-17       | 1          |              |      |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's. Analyte NOT DETECTED at or above the reporting limit ND Relative Percent Difference RPD 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  $6^{\circ}\text{C}$ Samples reported on an as received basis (wet) unless otherwise noted on report

\*=Accredited Analyte

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# CARDINAL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| ANALYSIS REQUEST   | X319  | ult:   |  |
|--|---|--|--|
| RILTO  | State: OTHER: PRE: PRE: Phone #   | The based as contrast of local chink the limited to the amount said by the client both or making and received by Cauticol within 30 days after completion of the application of some selection of the application of the appli | changes to 503-343-244   |
| 101 East Marland, Hobbs, NM 88240<br>(575) 393-2326 FAX (575) 393-2476 | Company Name: Hungey Horse, LLC  Address: Po box 1058  Address: Po box 1058  State: Mil Zip: 8834   City: Hobbs  Project Name: Be   Pat #: 575-391-4585  Phone #: 575-631-2253  Fax #: 575-391-4585  Phone #: 575-631-4285  Project Name: Be   Pat ix 28 feet H    Project Location: Caldie County  Sampler Name: | PLEASE NOTE: Landing and Domingers Certaintis leadility, and dent's evidence remerty for any claim assenty whether black purchases. All almost including that it is registered and any other claims while yet is that the description where the second variety of the se | in contained common and control changes. Please fax written changes to 505-355-44-41 |