

**APPROVED**

July 28, 2016

Oil Conservation Division  
District 1 – Hobbs  
1625 N. French Dr.  
Hobbs, NM 88240**Re: LUSK DEEP UNIT A #022H  
30-025-40705  
Sec. 17, T19S-R32E  
Lea County, NM**

Mr. Keyes/Mr. Arias,

COG Operating LLC would like to submit the enclosed document for closure of the above captioned well. The plan is in response to the C-141 Initial report dated May 24, 2016.

A fire at this location was reported at approximately 4:15 am. This release was caused when fluid was sent to flare due to an equipment failure. Fire Crews were dispatched to the location. The impacted area, located on the west side of the pad, measures approximately 0.73 acres. This area was addressed with an initial application of Microblaze.

Attached is a map of the impacted area with sampling points and results. At this time we would like to request closure of 1RP-4300. A signed C-141 Final is enclosed for your consideration. Please feel free to contact me with any questions or concerns at (575) 748-6933.

Sincerely,

Amanda Trujillo Davis  
Senior Environmental Coordinator

## Enclosed

- (1) C-141 Final
- (2) Site Diagram and Summary Table
- (3) Laboratory Analysis

## CORPORATE ADDRESS

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701  
P 432.683.7443 | F 432.683.7441

## CARLSBAD OFFICE

1401 Commerce Drive | Carlsbad, New Mexico 88220  
P 575.689.3100 | F 575.941.2081

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

#### OPERATOR

☐ Initial Report ☒ Final Report

|                                                     |                            |
|-----------------------------------------------------|----------------------------|
| Name of Company: COG Operating LLC                  | Contact: Robert McNeill    |
| Address: 600 West Illinois Avenue, Midland TX 79701 | Telephone No. 432-683-7443 |
| Facility Name: LUSK DEEP UNIT A #022H               | Facility Type: Battery     |

|                        |                        |                      |
|------------------------|------------------------|----------------------|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 30-025-40705 |
|------------------------|------------------------|----------------------|

#### LOCATION OF RELEASE

|                  |               |                 |              |                       |                           |                        |                        |               |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|------------------------|------------------------|---------------|
| Unit Letter<br>C | Section<br>17 | Township<br>19S | Range<br>32E | Feet from the<br>330' | North/South Line<br>North | Feet from the<br>1770' | East/West Line<br>West | County<br>Lea |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|------------------------|------------------------|---------------|

Latitude 32.6668205 Longitude -103.7912445

#### NATURE OF RELEASE

|                                                                                                                                          |                                                               |                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------|
| Type of Release:<br>Oil                                                                                                                  | Volume of Release:<br>15 bbls oil                             | Volume Recovered:<br>0 bbls oil                  |
| Source of Release:<br>Flare                                                                                                              | Date and Hour of Occurrence:<br>5/24/2016 unknown             | Date and Hour of Discovery:<br>5/24/2016 4:00 am |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Jaime Keyes - NMOCD / Shelly Tucker - BLM |                                                  |
| By Whom? Amanda T. Davis                                                                                                                 | Date and Hour: 5/24/2016 3:37 PM                              |                                                  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse.                     |                                                  |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

A fire at this location was reported at approximately 4:15 am. This release was caused when fluid was sent to flare due to an equipment failure. Fire Crews were dispatched to the location. Once the fire was extinguished Microblaze was applied to the area.

Describe Area Affected and Cleanup Action Taken.\*

This release occurred on the west side of the location. This release was sampled and sampling analysis was submitted to NMOCD for review and closure of RP number.

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: <i>Amanda T. Davis</i>       | <b>OIL CONSERVATION DIVISION</b>                         |                                            |
| Printed Name: Amanda Trujillo Davis     | Approved by Environmental Specialist: <i>Jaime Keyes</i> |                                            |
| Title: Senior Environmental Coordinator | Approval Date: 08/01/2016                                | Expiration Date: ///                       |
| E-mail Address: atrujillo@concho.com    | Conditions of Approval: ///                              | Attached <input type="checkbox"/> IRP 4300 |
| Date: July 28, 2016                     | Phone: 575-748-6940                                      |                                            |

\* Attach Additional Sheets If Necessary



# Lusk Deep Unit A #22

C-17-19S-32E

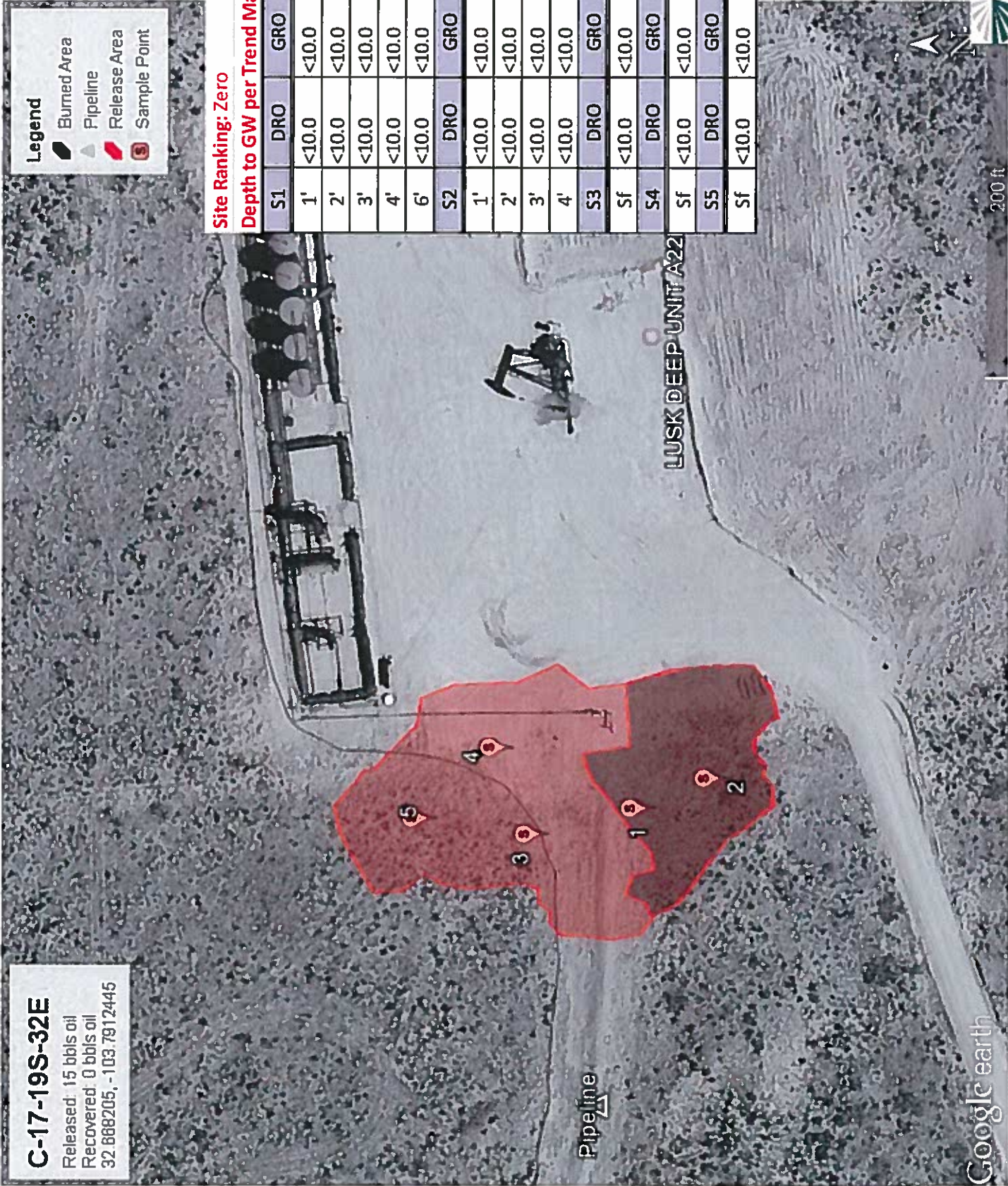
Released: 15 bbls oil  
Recovered: 0 bbls oil  
32 888205, -103.7912445

- Legend**
- Burned Area
  - ▲ Pipeline
  - Release Area
  - Sample Point

Site Ranking: Zero

Depth to GW per Trend Map: 425'

| S1 | DRO   | GRO   | TPH   | BTEX   |
|----|-------|-------|-------|--------|
| 1' | <10.0 | <10.0 | <10.0 | <0.300 |
| 2' | <10.0 | <10.0 | <10.0 | <0.300 |
| 3' | <10.0 | <10.0 | <10.0 | <0.300 |
| 4' | <10.0 | <10.0 | <10.0 | <0.300 |
| 6' | <10.0 | <10.0 | <10.0 | <0.300 |
| S2 | DRO   | GRO   | TPH   | BTEX   |
| 1' | <10.0 | <10.0 | <10.0 | <0.300 |
| 2' | <10.0 | <10.0 | <10.0 | <0.300 |
| 3' | <10.0 | <10.0 | <10.0 | <0.300 |
| 4' | <10.0 | <10.0 | <10.0 | <0.300 |
| S3 | DRO   | GRO   | TPH   | BTEX   |
| Sf | <10.0 | <10.0 | <10.0 | <0.300 |
| S4 | DRO   | GRO   | TPH   | BTEX   |
| Sf | <10.0 | <10.0 | <10.0 | <0.300 |
| S5 | DRO   | GRO   | TPH   | BTEX   |
| Sf | <10.0 | <10.0 | <10.0 | <0.300 |



July 20, 2016

AMANDA TRUJILLO  
COG Operating, LLC  
500 W. ILLINOIS  
Midland, TX 79701

RE: LUSK DEEP UNIT A #22

Enclosed are the results of analyses for samples received by the laboratory on 07/14/16 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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:**

 COG Operating, LLC  
 AMANDA TRUJILLO  
 500 W. ILLINOIS  
 Midland TX, 79701  
 Fax To: None

 Received: 07/14/2016  
 Reported: 07/20/2016  
 Project Name: LUSK DEEP UNIT A #22  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

 Sampling Date: 07/14/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S1-1' (H601584-01)**

| 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           | 07/15/2016      | ND           | 1.86 | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016      | ND           | 2.08 | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016      | ND           | 2.06 | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016      | ND           | 6.25 | 104        | 6.00          | 1.71 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2016      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 73.6-140

| 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            | 07/14/2016      | ND           | 178 | 88.9       | 200           | 3.28 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/14/2016      | ND           | 188 | 93.9       | 200           | 3.89 |           |

Surrogate: 1-Chlorooctane 76.8 % 35-147

Surrogate: 1-Chlorooctadecane 76.0 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 COG Operating, LLC  
 AMANDA TRUJILLO  
 500 W. ILLINOIS  
 Midland TX, 79701  
 Fax To: None

 Received: 07/14/2016  
 Reported: 07/20/2016  
 Project Name: LUSK DEEP UNIT A #22  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

 Sampling Date: 07/14/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S1-2' (H601584-02)**

| 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           | 07/15/2016      | ND           | 1.86 | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016      | ND           | 2.08 | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016      | ND           | 2.06 | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016      | ND           | 6.25 | 104        | 6.00          | 1.71 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2016      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 73.6-140

| 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            | 07/15/2016      | ND           | 182 | 91.0       | 200           | 2.49 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/15/2016      | ND           | 194 | 97.0       | 200           | 3.69 |           |

Surrogate: 1-Chlorooctane 81.6 % 35-147

Surrogate: 1-Chlorooctadecane 85.5 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG Operating, LLC  
AMANDA TRUJILLO  
500 W. ILLINOIS  
Midland TX, 79701  
Fax To: None

Received: 07/14/2016  
Reported: 07/20/2016  
Project Name: LUSK DEEP UNIT A #22  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 07/14/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S1-3' (H601584-03)**

| 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           | 07/15/2016      | ND           | 1.86 | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016      | ND           | 2.08 | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016      | ND           | 2.06 | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016      | ND           | 6.25 | 104        | 6.00          | 1.71 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2016      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.6-140

| 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            | 07/15/2016      | ND           | 182 | 91.0       | 200           | 2.49 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/15/2016      | ND           | 194 | 97.0       | 200           | 3.69 |           |

Surrogate: 1-Chlorooctane 80.9 % 35-147

Surrogate: 1-Chlorooctadecane 84.3 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG Operating, LLC  
 AMANDA TRUJILLO  
 500 W. ILLINOIS  
 Midland TX, 79701  
 Fax To: None

 Received: 07/14/2016  
 Reported: 07/20/2016  
 Project Name: LUSK DEEP UNIT A #22  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

 Sampling Date: 07/14/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S1-4' (H601584-04)**

| 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           | 07/15/2016 | ND           | 1.86            | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016 | ND           | 2.08            | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016 | ND           | 2.06            | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016 | ND           | 6.25            | 104        | 6.00          | 1.71 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2016 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.6-140

| 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            | 07/15/2016 | ND           | 182             | 91.0       | 200           | 2.49 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/15/2016 | ND           | 194             | 97.0       | 200           | 3.69 |           |

Surrogate: 1-Chlorooctane 96.8 % 35-147

Surrogate: 1-Chlorooctadecane 99.5 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

COG Operating, LLC  
AMANDA TRUJILLO  
500 W. ILLINOIS  
Midland TX, 79701  
Fax To: None

Received: 07/14/2016  
Reported: 07/20/2016  
Project Name: LUSK DEEP UNIT A #22  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 07/14/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S1-6' (H601584-05)**

| 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           | 07/15/2016 | ND           | 1.86            | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016 | ND           | 2.08            | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016 | ND           | 2.06            | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016 | ND           | 6.25            | 104        | 6.00          | 1.71 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2016 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.6-140

| 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            | 07/15/2016 | ND           | 182             | 91.0       | 200           | 2.49 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/15/2016 | ND           | 194             | 97.0       | 200           | 3.69 |           |


Surrogate: 1-Chlorooctane 82.7 % 35-147

Surrogate: 1-Chlorooctadecane 87.3 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG Operating, LLC  
 AMANDA TRUJILLO  
 500 W. ILLINOIS  
 Midland TX, 79701  
 Fax To: None

 Received: 07/14/2016  
 Reported: 07/20/2016  
 Project Name: LUSK DEEP UNIT A #22  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

 Sampling Date: 07/14/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S2-1' (H601584-06)**

| BTEX 80218     |        |                 | mg/kg      |              | Analyzed By: MS |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2016 | ND           | 1.86            | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016 | ND           | 2.08            | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016 | ND           | 2.06            | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016 | ND           | 6.25            | 104        | 6.00          | 1.71 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2016 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIB) 102 % 73.6-140

| 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            | 07/15/2016 | ND           | 182             | 91.0       | 200           | 2.49 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/15/2016 | ND           | 194             | 97.0       | 200           | 3.69 |           |

Surrogate: 1-Chlorooctane 80.1 % 35-147

Surrogate: 1-Chlorooctadecane 84.9 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG Operating, LLC  
 AMANDA TRUJILLO  
 500 W. ILLINOIS  
 Midland TX, 79701  
 Fax To: None

 Received: 07/14/2016  
 Reported: 07/20/2016  
 Project Name: LUSK DEEP UNIT A #22  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

 Sampling Date: 07/14/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S2-2' (H601584-07)**

| 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           | 07/15/2016 | ND           | 1.86            | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016 | ND           | 2.08            | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016 | ND           | 2.06            | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016 | ND           | 6.25            | 104        | 6.00          | 1.71 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2016 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIB) 101 % 73 6-140

| 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            | 07/15/2016 | ND           | 182             | 91.0       | 200           | 2.49 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/15/2016 | ND           | 194             | 97.0       | 200           | 3.69 |           |

Surrogate: 1-Chlorooctane 82.7 % 35-147

Surrogate: 1-Chlorooctadecane 78.6 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG Operating, LLC  
 AMANDA TRUJILLO  
 500 W. ILLINOIS  
 Midland TX, 79701  
 Fax To: None

 Received: 07/14/2016  
 Reported: 07/20/2016  
 Project Name: LUSK DEEP UNIT A #22  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

 Sampling Date: 07/14/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S2-3' (H601584-08)**

| BTEX 80218     |        |                 | mg/kg      |              | Analyzed By: MS |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2016 | ND           | 1.86            | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016 | ND           | 2.08            | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016 | ND           | 2.06            | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016 | ND           | 6.25            | 104        | 6.00          | 1.71 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2016 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73 6-140

| 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            | 07/15/2016 | ND           | 182             | 91.0       | 200           | 2.49 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/15/2016 | ND           | 194             | 97.0       | 200           | 3.69 |           |

Surrogate: 1-Chlorooctane 83.2 % 35-147

Surrogate: 1-Chlorooctadecane 91.0 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**COG Operating, LLC  
AMANDA TRUJILLO  
500 W. ILLINOIS  
Midland TX, 79701  
Fax To: NoneReceived: 07/14/2016  
Reported: 07/20/2016  
Project Name: LUSK DEEP UNIT A #22  
Project Number: NONE GIVEN  
Project Location: NONE GIVENSampling Date: 07/14/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson**Sample ID: S2-4' (H601584-09)**

| 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           | 07/15/2016 | ND              | 1.86 | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016 | ND              | 2.08 | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016 | ND              | 2.06 | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016 | ND              | 6.25 | 104        | 6.00          | 1.71 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2016 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 99.8 % 73.6-140

| 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            | 07/15/2016 | ND              | 182 | 91.0       | 200           | 2.49 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/15/2016 | ND              | 194 | 97.0       | 200           | 3.69 |           |

Surrogate: 1-Chlorooctane 69.9 % 35-147

Surrogate: 1-Chlorooctadecane 71.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

COG Operating, LLC  
AMANDA TRUJILLO  
500 W. ILLINOIS  
Midland TX, 79701  
Fax To: None

Received: 07/14/2016  
Reported: 07/20/2016  
Project Name: LUSK DEEP UNIT A #22  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 07/14/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S3-SURFACE (H601584-10)**

| 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           | 07/15/2016 | ND              | 1.86 | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016 | ND              | 2.08 | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016 | ND              | 2.06 | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016 | ND              | 6.25 | 104        | 6.00          | 1.71 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2016 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 73.6-140

| 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            | 07/15/2016 | ND              | 182 | 91.0       | 200           | 2.49 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/15/2016 | ND              | 194 | 97.0       | 200           | 3.69 |           |

Surrogate: 1-Chlorooctane 75.6 % 35-147

Surrogate: 1-Chlorooctadecane 73.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG Operating, LLC  
AMANDA TRUJILLO  
500 W. ILLINOIS  
Midland TX, 79701  
Fax To: None

Received: 07/14/2016  
Reported: 07/20/2016  
Project Name: LUSK DEEP UNIT A #22  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 07/14/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S4- SURFACE (H601584-11)**

| 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           | 07/15/2016 | ND           | 1.86            | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016 | ND           | 2.08            | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016 | ND           | 2.06            | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016 | ND           | 6.25            | 104        | 6.00          | 1.71 |           |
| Total BTX      | <0.300 | 0.300           | 07/15/2016 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 73 6-140

| 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            | 07/15/2016 | ND           | 182             | 91.0       | 200           | 2.49 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/15/2016 | ND           | 194             | 97.0       | 200           | 3.69 |           |

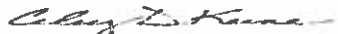
Surrogate: 1-Chlorooctane 92.4 % 35-147

Surrogate: 1-Chlorooctadecane 89.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG Operating, LLC  
AMANDA TRUJILLO  
500 W. ILLINOIS  
Midland TX, 79701  
Fax To: None

Received: 07/14/2016  
Reported: 07/20/2016  
Project Name: LUSK DEEP UNIT A #22  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 07/14/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S5- SURFACE (H601584-12)**

| 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           | 07/15/2016      | ND           | 1.86 | 93.2       | 2.00          | 1.20 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2016      | ND           | 2.08 | 104        | 2.00          | 1.83 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2016      | ND           | 2.06 | 103        | 2.00          | 2.00 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2016      | ND           | 6.25 | 104        | 6.00          | 1.71 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2016      | ND           |      |            |               |      |           |

Surrogate 4-Bromofluorobenzene (PIC) 100 % 73.6-140

| 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            | 07/15/2016      | ND           | 182 | 91.0       | 200           | 2.49 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/15/2016      | ND           | 194 | 97.0       | 200           | 3.69 |           |

Surrogate 1-Chlorooctane 87.1 % 35-147

Surrogate 1-Chlorooctadecane 84.1 % 28-171

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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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---

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

|                                           |               |                          |  |                         |  |
|-------------------------------------------|---------------|--------------------------|--|-------------------------|--|
| <b>Company Name:</b> COG Operating        |               | <b>P.O. #:</b>           |  | <b>BILL TO</b>          |  |
| <b>Project Manager:</b> Amanda Davis      |               | <b>Company:</b> COG      |  | <b>ANALYSIS REQUEST</b> |  |
| <b>Address:</b>                           |               | <b>Attn:</b> Robert Gubb |  |                         |  |
| <b>City:</b>                              | <b>State:</b> | <b>Zip:</b>              |  |                         |  |
| <b>Phone #:</b>                           | <b>Fax #:</b> |                          |  |                         |  |
| <b>Project #:</b>                         |               | <b>Project Owner:</b>    |  |                         |  |
| <b>Project Name:</b> Lusk Deep Unit A #22 |               | <b>City:</b>             |  |                         |  |
| <b>Project Location:</b>                  |               | <b>State:</b>            |  |                         |  |
| <b>Sampler Name:</b> A. Davis             |               | <b>Phone #:</b>          |  |                         |  |
| <b>FOR LAB USE ONLY</b>                   |               | <b>Fax #:</b>            |  |                         |  |
|                                           |               | <b>PRESERV</b>           |  | <b>SAMPLING</b>         |  |
|                                           |               | <b>MATRIX</b>            |  |                         |  |
|                                           |               | <b>(G)RAB OR (C)OMP</b>  |  |                         |  |
|                                           |               | <b># CONTAINERS</b>      |  |                         |  |
|                                           |               | <b>GROUNDWATER</b>       |  |                         |  |
|                                           |               | <b>WASTEWATER</b>        |  |                         |  |
|                                           |               | <b>SOIL</b>              |  |                         |  |
|                                           |               | <b>OIL</b>               |  |                         |  |
|                                           |               | <b>SLUDGE</b>            |  |                         |  |
|                                           |               | <b>OTHER :</b>           |  |                         |  |
|                                           |               | <b>ACID/BASE</b>         |  |                         |  |
|                                           |               | <b>ICE / COOL</b>        |  |                         |  |
|                                           |               | <b>OTHER :</b>           |  |                         |  |
| <b>Lab I.D.</b>                           |               | <b>DATE</b>              |  | <b>TIME</b>             |  |
| <b>Sample I.D.</b>                        |               |                          |  |                         |  |
| H4001584                                  |               | 7/14/16                  |  | 11:30                   |  |
| V01-1'                                    |               | ✓                        |  | BTEX                    |  |
| V01-2'                                    |               | ✓                        |  | TPH                     |  |
| V01-3'                                    |               | ✓                        |  |                         |  |
| V01-4'                                    |               | ✓                        |  |                         |  |
| V01-5'                                    |               | ✓                        |  |                         |  |
| V01-6'                                    |               | ✓                        |  |                         |  |
| V01-7'                                    |               | ✓                        |  |                         |  |
| V01-8'                                    |               | ✓                        |  |                         |  |
| V01-9'                                    |               | ✓                        |  |                         |  |
| V01-10'                                   |               | ✓                        |  |                         |  |
| V01-11'                                   |               | ✓                        |  |                         |  |
| V01-12'                                   |               | ✓                        |  |                         |  |
| V01-13'                                   |               | ✓                        |  |                         |  |
| V01-14'                                   |               | ✓                        |  |                         |  |
| V01-15'                                   |               | ✓                        |  |                         |  |
| V01-16'                                   |               | ✓                        |  |                         |  |
| V01-17'                                   |               | ✓                        |  |                         |  |
| V01-18'                                   |               | ✓                        |  |                         |  |
| V01-19'                                   |               | ✓                        |  |                         |  |
| V01-20'                                   |               | ✓                        |  |                         |  |
| V01-21'                                   |               | ✓                        |  |                         |  |
| V01-22'                                   |               | ✓                        |  |                         |  |
| V01-23'                                   |               | ✓                        |  |                         |  |
| V01-24'                                   |               | ✓                        |  |                         |  |
| V01-25'                                   |               | ✓                        |  |                         |  |
| V01-26'                                   |               | ✓                        |  |                         |  |
| V01-27'                                   |               | ✓                        |  |                         |  |
| V01-28'                                   |               | ✓                        |  |                         |  |
| V01-29'                                   |               | ✓                        |  |                         |  |
| V01-30'                                   |               | ✓                        |  |                         |  |
| V01-31'                                   |               | ✓                        |  |                         |  |
| V01-32'                                   |               | ✓                        |  |                         |  |
| V01-33'                                   |               | ✓                        |  |                         |  |
| V01-34'                                   |               | ✓                        |  |                         |  |
| V01-35'                                   |               | ✓                        |  |                         |  |
| V01-36'                                   |               | ✓                        |  |                         |  |
| V01-37'                                   |               | ✓                        |  |                         |  |
| V01-38'                                   |               | ✓                        |  |                         |  |
| V01-39'                                   |               | ✓                        |  |                         |  |
| V01-40'                                   |               | ✓                        |  |                         |  |
| V01-41'                                   |               | ✓                        |  |                         |  |
| V01-42'                                   |               | ✓                        |  |                         |  |
| V01-43'                                   |               | ✓                        |  |                         |  |
| V01-44'                                   |               | ✓                        |  |                         |  |
| V01-45'                                   |               | ✓                        |  |                         |  |
| V01-46'                                   |               | ✓                        |  |                         |  |
| V01-47'                                   |               | ✓                        |  |                         |  |
| V01-48'                                   |               | ✓                        |  |                         |  |
| V01-49'                                   |               | ✓                        |  |                         |  |
| V01-50'                                   |               | ✓                        |  |                         |  |
| V01-51'                                   |               | ✓                        |  |                         |  |
| V01-52'                                   |               | ✓                        |  |                         |  |
| V01-53'                                   |               | ✓                        |  |                         |  |
| V01-54'                                   |               | ✓                        |  |                         |  |
| V01-55'                                   |               | ✓                        |  |                         |  |
| V01-56'                                   |               | ✓                        |  |                         |  |
| V01-57'                                   |               | ✓                        |  |                         |  |
| V01-58'                                   |               | ✓                        |  |                         |  |
| V01-59'                                   |               | ✓                        |  |                         |  |
| V01-60'                                   |               | ✓                        |  |                         |  |
| V01-61'                                   |               | ✓                        |  |                         |  |
| V01-62'                                   |               | ✓                        |  |                         |  |
| V01-63'                                   |               | ✓                        |  |                         |  |
| V01-64'                                   |               | ✓                        |  |                         |  |
| V01-65'                                   |               | ✓                        |  |                         |  |
| V01-66'                                   |               | ✓                        |  |                         |  |
| V01-67'                                   |               | ✓                        |  |                         |  |
| V01-68'                                   |               | ✓                        |  |                         |  |
| V01-69'                                   |               | ✓                        |  |                         |  |
| V01-70'                                   |               | ✓                        |  |                         |  |
| V01-71'                                   |               | ✓                        |  |                         |  |
| V01-72'                                   |               | ✓                        |  |                         |  |
| V01-73'                                   |               | ✓                        |  |                         |  |
| V01-74'                                   |               | ✓                        |  |                         |  |
| V01-75'                                   |               | ✓                        |  |                         |  |
| V01-76'                                   |               | ✓                        |  |                         |  |
| V01-77'                                   |               | ✓                        |  |                         |  |
| V01-78'                                   |               | ✓                        |  |                         |  |
| V01-79'                                   |               | ✓                        |  |                         |  |
| V01-80'                                   |               | ✓                        |  |                         |  |
| V01-81'                                   |               | ✓                        |  |                         |  |
| V01-82'                                   |               | ✓                        |  |                         |  |
| V01-83'                                   |               | ✓                        |  |                         |  |
| V01-84'                                   |               | ✓                        |  |                         |  |
| V01-85'                                   |               | ✓                        |  |                         |  |
| V01-86'                                   |               | ✓                        |  |                         |  |
| V01-87'                                   |               | ✓                        |  |                         |  |
| V01-88'                                   |               | ✓                        |  |                         |  |
| V01-89'                                   |               | ✓                        |  |                         |  |
| V01-90'                                   |               | ✓                        |  |                         |  |
| V01-91'                                   |               | ✓                        |  |                         |  |
| V01-92'                                   |               | ✓                        |  |                         |  |
| V01-93'                                   |               | ✓                        |  |                         |  |
| V01-94'                                   |               | ✓                        |  |                         |  |
| V01-95'                                   |               | ✓                        |  |                         |  |
| V01-96'                                   |               | ✓                        |  |                         |  |
| V01-97'                                   |               | ✓                        |  |                         |  |
| V01-98'                                   |               | ✓                        |  |                         |  |
| V01-99'                                   |               | ✓                        |  |                         |  |
| V01-100'                                  |               | ✓                        |  |                         |  |
| V01-101'                                  |               | ✓                        |  |                         |  |
| V01-102'                                  |               | ✓                        |  |                         |  |
| V01-103'                                  |               | ✓                        |  |                         |  |
| V01-104'                                  |               | ✓                        |  |                         |  |
| V01-105'                                  |               | ✓                        |  |                         |  |
| V01-106'                                  |               | ✓                        |  |                         |  |
| V01-107'                                  |               | ✓                        |  |                         |  |
| V01-108'                                  |               | ✓                        |  |                         |  |
| V01-109'                                  |               | ✓                        |  |                         |  |
| V01-110'                                  |               | ✓                        |  |                         |  |
| V01-111'                                  |               | ✓                        |  |                         |  |
| V01-112'                                  |               | ✓                        |  |                         |  |
| V01-113'                                  |               | ✓                        |  |                         |  |
| V01-114'                                  |               | ✓                        |  |                         |  |
| V01-115'                                  |               | ✓                        |  |                         |  |
| V01-116'                                  |               | ✓                        |  |                         |  |
| V01-117'                                  |               | ✓                        |  |                         |  |
| V01-118'                                  |               | ✓                        |  |                         |  |
| V01-119'                                  |               | ✓                        |  |                         |  |
| V01-120'                                  |               | ✓                        |  |                         |  |
| V01-121'                                  |               | ✓                        |  |                         |  |
| V01-122'                                  |               | ✓                        |  |                         |  |
| V01-123'                                  |               | ✓                        |  |                         |  |
| V01-124'                                  |               | ✓                        |  |                         |  |
| V01-125'                                  |               | ✓                        |  |                         |  |
| V01-126'                                  |               | ✓                        |  |                         |  |
| V01-127'                                  |               | ✓                        |  |                         |  |
| V01-128'                                  |               | ✓                        |  |                         |  |
| V01-129'                                  |               | ✓                        |  |                         |  |
| V01-130'                                  |               | ✓                        |  |                         |  |
| V01-131'                                  |               | ✓                        |  |                         |  |
| V01-132'                                  |               | ✓                        |  |                         |  |
| V01-133'                                  |               | ✓                        |  |                         |  |
| V01-134'                                  |               | ✓                        |  |                         |  |
| V01-135'                                  |               | ✓                        |  |                         |  |
| V01-136'                                  |               | ✓                        |  |                         |  |
| V01-137'                                  |               | ✓                        |  |                         |  |
| V01-138'                                  |               | ✓                        |  |                         |  |
| V01-139'                                  |               | ✓                        |  |                         |  |
| V01-140'                                  |               | ✓                        |  |                         |  |
| V01-141'                                  |               | ✓                        |  |                         |  |
| V01-142'                                  |               | ✓                        |  |                         |  |
| V01-143'                                  |               | ✓                        |  |                         |  |
| V01-144'                                  |               | ✓                        |  |                         |  |
| V01-145'                                  |               | ✓                        |  |                         |  |
| V01-146'                                  |               | ✓                        |  |                         |  |
| V01-147'                                  |               | ✓                        |  |                         |  |
| V01-148'                                  |               | ✓                        |  |                         |  |
| V01-149'                                  |               | ✓                        |  |                         |  |
| V01-150'                                  |               | ✓                        |  |                         |  |
| V01-151'                                  |               | ✓                        |  |                         |  |
| V01-152'                                  |               | ✓                        |  |                         |  |
| V01-153'                                  |               | ✓                        |  |                         |  |
| V01-154'                                  |               | ✓                        |  |                         |  |
| V01-155'                                  |               | ✓                        |  |                         |  |
| V01-156'                                  |               | ✓                        |  |                         |  |
| V01-157'                                  |               | ✓                        |  |                         |  |
| V01-158'                                  |               | ✓                        |  |                         |  |
| V01-159'                                  |               | ✓                        |  |                         |  |
| V01-160'                                  |               | ✓                        |  |                         |  |
| V01-161'                                  |               | ✓                        |  |                         |  |
| V01-162'                                  |               | ✓                        |  |                         |  |
| V01-163'                                  |               | ✓                        |  |                         |  |
| V01-164'                                  |               | ✓                        |  |                         |  |
| V01-165'                                  |               | ✓                        |  |                         |  |
| V01-166'                                  |               | ✓                        |  |                         |  |
| V01-167'                                  |               | ✓                        |  |                         |  |
| V01-168'                                  |               | ✓                        |  |                         |  |
| V01-169'                                  |               | ✓                        |  |                         |  |
| V01-170'                                  |               | ✓                        |  |                         |  |
| V01-171'                                  |               | ✓                        |  |                         |  |
| V01-172'                                  |               | ✓                        |  |                         |  |
| V01-173'                                  |               | ✓                        |  |                         |  |
| V01-174'                                  |               | ✓                        |  |                         |  |
| V01-175'                                  |               | ✓                        |  |                         |  |
| V01-176'                                  |               | ✓                        |  |                         |  |
| V01-177'                                  |               | ✓                        |  |                         |  |
| V01-178'                                  |               | ✓                        |  |                         |  |
| V01-179'                                  |               | ✓                        |  |                         |  |
| V01-180'                                  |               | ✓                        |  |                         |  |
| V01-181'                                  |               | ✓                        |  |                         |  |
| V01-182'                                  |               | ✓                        |  |                         |  |
| V01-183'                                  |               | ✓                        |  |                         |  |
| V01-184'                                  |               | ✓                        |  |                         |  |
| V01-185'                                  |               | ✓                        |  |                         |  |
| V01-186'                                  |               | ✓                        |  |                         |  |
| V01-187'                                  |               | ✓                        |  |                         |  |
| V01-188'                                  |               | ✓                        |  |                         |  |
| V01-189'                                  |               | ✓                        |  |                         |  |
| V01-190'                                  |               | ✓                        |  |                         |  |
| V01-191'                                  |               | ✓                        |  |                         |  |
| V01-192'                                  |               | ✓                        |  |                         |  |
| V01-193'                                  |               | ✓                        |  |                         |  |
| V01-194'                                  |               | ✓                        |  |                         |  |
| V01-195'                                  |               | ✓                        |  |                         |  |
| V01-196'                                  |               | ✓                        |  |                         |  |
| V01-197'                                  |               | ✓                        |  |                         |  |
| V01-198'                                  |               | ✓                        |  |                         |  |
| V01-199'                                  |               | ✓                        |  |                         |  |
| V01-200'                                  |               | ✓                        |  |                         |  |
| V01-201'                                  |               | ✓                        |  |                         |  |
| V01-202'                                  |               | ✓                        |  |                         |  |
| V01-203'                                  |               | ✓                        |  |                         |  |
| V01-204'                                  |               | ✓                        |  |                         |  |
| V01-205'                                  |               | ✓                        |  |                         |  |
| V01-206'                                  |               | ✓                        |  |                         |  |
| V01-207'                                  |               | ✓                        |  |                         |  |
| V01-208'                                  |               | ✓                        |  |                         |  |
| V01-209'                                  |               | ✓                        |  |                         |  |
| V01-210'                                  |               | ✓                        |  |                         |  |
| V01-211'                                  |               | ✓                        |  |                         |  |
| V01-212'                                  |               | ✓                        |  |                         |  |
| V01-213'                                  |               | ✓                        |  |                         |  |
| V01-214'                                  |               | ✓                        |  |                         |  |
| V01-215'                                  |               | ✓                        |  |                         |  |
| V01-216'                                  |               | ✓                        |  |                         |  |
| V01-217'                                  |               | ✓                        |  |                         |  |
| V01-218'                                  |               | ✓                        |  |                         |  |
| V01-219'                                  |               | ✓                        |  |                         |  |
| V01-220'                                  |               | ✓                        |  |                         |  |
| V01-221'                                  |               | ✓                        |  |                         |  |
| V01-222'                                  |               | ✓                        |  |                         |  |
| V01-223'                                  |               | ✓                        |  |                         |  |
| V01-224'                                  |               | ✓                        |  |                         |  |
| V01-225'                                  |               | ✓                        |  |                         |  |
| V01-226'                                  |               | ✓                        |  |                         |  |
| V01-227'                                  |               | ✓                        |  |                         |  |
| V01-228'                                  |               | ✓                        |  |                         |  |
| V01-229'                                  |               | ✓                        |  |                         |  |
| V01-230'                                  |               | ✓                        |  |                         |  |
| V01-231'                                  |               | ✓                        |  |                         |  |
| V01-232'                                  |               | ✓                        |  |                         |  |
| V01-233'                                  |               | ✓                        |  |                         |  |
| V01-234'                                  |               | ✓                        |  |                         |  |
| V01-235'                                  |               | ✓                        |  |                         |  |
| V01-236'                                  |               | ✓                        |  |                         |  |
| V01-237'                                  |               | ✓                        |  |                         |  |
| V01-238'                                  |               | ✓                        |  |                         |  |
| V01-239'                                  |               | ✓                        |  |                         |  |
| V01-240'                                  |               | ✓                        |  |                         |  |
| V01-241'                                  |               | ✓                        |  |                         |  |
| V01-242'                                  |               | ✓                        |  |                         |  |
| V01-243'                                  |               | ✓                        |  |                         |  |
| V01-244'                                  |               | ✓                        |  |                         |  |
| V01-245'                                  |               | ✓                        |  |                         |  |
| V01-246'                                  |               | ✓                        |  |                         |  |
| V01-247'                                  |               | ✓                        |  |                         |  |
| V01-248'                                  |               | ✓                        |  |                         |  |
| V01-249'                                  |               | ✓                        |  |                         |  |
| V01-250'                                  |               | ✓                        |  |                         |  |
| V01-251'                                  |               | ✓                        |  |                         |  |
| V01-252'                                  |               | ✓                        |  |                         |  |
| V01-253'                                  |               | ✓                        |  |                         |  |
| V01-254'                                  |               | ✓                        |  |                         |  |
| V01-255'                                  |               | ✓                        |  |                         |  |
| V01-256'                                  |               | ✓                        |  |                         |  |
| V01-257'                                  |               | ✓                        |  |                         |  |
| V01-258'                                  |               | ✓                        |  |                         |  |
| V01-259'                                  |               | ✓                        |  |                         |  |
| V01-260'                                  |               | ✓                        |  |                         |  |
| V01-261'                                  |               | ✓                        |  |                         |  |
| V01-262'                                  |               | ✓                        |  |                         |  |
| V01-263'                                  |               | ✓                        |  |                         |  |
| V01-264'                                  |               | ✓                        |  |                         |  |
| V01-265'                                  |               | ✓                        |  |                         |  |
| V01-266'                                  |               | ✓                        |  |                         |  |
| V01-267'                                  |               | ✓                        |  |                         |  |
| V01-268'                                  |               | ✓                        |  |                         |  |
| V01-269'                                  |               | ✓                        |  |                         |  |
| V01-270'                                  |               | ✓                        |  |                         |  |
| V01-271'                                  |               | ✓                        |  |                         |  |
| V01-272'                                  |               | ✓                        |  |                         |  |
| V01-273'                                  |               | ✓                        |  |                         |  |
| V01-274'                                  |               | ✓                        |  |                         |  |
| V01-275'                                  |               | ✓                        |  |                         |  |
| V01-276'                                  |               | ✓                        |  |                         |  |
| V01-277'                                  |               | ✓                        |  |                         |  |
| V01-278'                                  |               | ✓                        |  |                         |  |
| V01-279'                                  |               | ✓                        |  |                         |  |
| V01-280'                                  |               | ✓                        |  |                         |  |
| V01-281'                                  |               | ✓                        |  |                         |  |
| V01-282'                                  |               | ✓                        |  |                         |  |
| V01-283'                                  |               | ✓                        |  |                         |  |
| V01-284'                                  |               | ✓                        |  |                         |  |
| V01-285'                                  |               | ✓                        |  |                         |  |
| V01-286'                                  |               | ✓                        |  |                         |  |
| V01-287'                                  |               | ✓                        |  |                         |  |
| V01-288'                                  |               | ✓                        |  |                         |  |
| V01-289'                                  |               | ✓                        |  |                         |  |
| V01-290'                                  |               | ✓                        |  |                         |  |
| V01-291'                                  |               | ✓                        |  |                         |  |
| V01-292'                                  |               | ✓                        |  |                         |  |
| V01-293'                                  |               | ✓                        |  |                         |  |
| V01-294'                                  |               | ✓                        |  |                         |  |
| V01-295'                                  |               | ✓                        |  |                         |  |
| V01-296'                                  |               | ✓                        |  |                         |  |
| V01-297'                                  |               | ✓                        |  |                         |  |
| V01-298'                                  |               | ✓                        |  |                         |  |
| V01-299'                                  |               | ✓                        |  |                         |  |
| V01-300'                                  |               | ✓                        |  |                         |  |
| V01-301'                                  |               | ✓                        |  |                         |  |
| V01-302'                                  |               | ✓                        |  |                         |  |
| V01-303'                                  |               | ✓                        |  |                         |  |
| V01-304'                                  |               | ✓                        |  |                         |  |
| V01-305'                                  |               | ✓                        |  |                         |  |
| V01-306'                                  |               | ✓                        |  |                         |  |
| V01-307'                                  |               | ✓                        |  |                         |  |
| V01-308'                                  |               | ✓                        |  |                         |  |
| V01-309'                                  |               | ✓                        |  |                         |  |
| V01-310'                                  |               | ✓                        |  |                         |  |
| V01-311'                                  |               | ✓                        |  |                         |  |
| V01-312'                                  |               | ✓                        |  |                         |  |
| V01-313'                                  |               | ✓                        |  |                         |  |
| V01-314'                                  |               | ✓                        |  |                         |  |
| V01-315'                                  |               | ✓                        |  |                         |  |
| V01-316'                                  |               | ✓                        |  |                         |  |
| V01-317'                                  |               | ✓                        |  |                         |  |
| V01-318'                                  |               | ✓                        |  |                         |  |
| V01-319'                                  |               | ✓                        |  |                         |  |
| V01-320'                                  |               | ✓                        |  |                         |  |
| V01-321'                                  |               | ✓                        |  |                         |  |
| V01-322'                                  |               | ✓                        |  |                         |  |
| V01-323'                                  |               | ✓                        |  |                         |  |
|                                           |               |                          |  |                         |  |





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name:

Project Manager:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Project #:

Project Owner:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE

ICE / COOL

OTHER :

DATE

TIME

HA01584  
-11 S4-Surface  
-12 S5-Surface

7/14/11 11:30  
7/14/11 1:30

BTEX+  
TPH

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Relinquished By:

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

REMARKS:

Just pulled sample and came directly to lab

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326