### Closure Report



### **REVIEWED**

By Kristen Lynch at 9:30 am, Oct 05, 2016

|                    | Site Description             |  |  |  |  |  |  |  |  |
|--------------------|------------------------------|--|--|--|--|--|--|--|--|
| Site Name:         | Sopapilla State #001H        |  |  |  |  |  |  |  |  |
| Company:           | COG Operating LLC            |  |  |  |  |  |  |  |  |
| Legal Description: | U/L M, Section 2, T23S, R33E |  |  |  |  |  |  |  |  |
| County:            | Lea County, NM               |  |  |  |  |  |  |  |  |
| GPS Coordinates:   | N 32.32763° W 103.55012°     |  |  |  |  |  |  |  |  |

|                    | Release Data                |  |  |  |  |  |  |  |  |
|--------------------|-----------------------------|--|--|--|--|--|--|--|--|
| Date of Release:   | 11/06/2015 and 02/03/2016   |  |  |  |  |  |  |  |  |
| Type of Release:   | Oil                         |  |  |  |  |  |  |  |  |
| Source of Release: | Dump valve and Closed valve |  |  |  |  |  |  |  |  |
| Volume of Release: | 11 bbls and 20 bbls         |  |  |  |  |  |  |  |  |
| Volume Recovered:  | 5 bbls and 19 bbls          |  |  |  |  |  |  |  |  |

| Remediation Specifications |   |  |  |  |  |  |  |  |  |
|----------------------------|---|--|--|--|--|--|--|--|--|
| Remediation<br>Parameters: | The spill areas around S1 & S2 from the 11/6/15 spill will be excavated to a depth of 6 inches to 1 foot. The area around S3 for the 11/6/15 spill will be excavated to a depth of 1.5 feet. The area around S1 for the 2/3/16 spill will be surface scraped. |  |  |  |  |  |  |  |  |
| Remediation Activities:    | 09/20/2016 to 0   | 9/26/2016                                |  |  |  |  |  |  |  |
| Plan Sent to OCD:          | 08/05/2016  | Email from Cliff Brunson to Jamie Keyes  |  |  |  |  |  |  |  |
| OCD Approval of Plan:      | 08/09/2016  | Email from Jamie Keyes to Cliff Brunson  |  |  |  |  |  |  |  |
| Plan Sent to SLO:          | 08/05/2016  | Email from Cliff Brunson to Amber Groves |  |  |  |  |  |  |  |
| SLO Approval of Plan:      | 08/18/2016  | Email from Amber Groves to Cliff Brunson |  |  |  |  |  |  |  |

|                  | Supporting Documentation                           |  |  |  |  |  |  |  |
|------------------|--|--|--|--|--|--|--|--|
| Initial C-141    | Signed 11/13/2015 and 02/15/2016                   |  |  |  |  |  |  |  |
| Final C-141      | Signed 09/28/2016                                  |  |  |  |  |  |  |  |
| Site Diagram     | June 2016  |  |  |  |  |  |  |  |
| Groundwater Plot | 375'   |  |  |  |  |  |  |  |
| TOPO Maps        | June 2016  |  |  |  |  |  |  |  |
| Lab Summary      | 01/18/2016 and 02/05/2016                          |  |  |  |  |  |  |  |
| Lab Analysis     | 01/18/2016 and 02/05/2016                          |  |  |  |  |  |  |  |
| Correspondence   | Request and approval of remediation plan via email |  |  |  |  |  |  |  |

### **Request for Closure**

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

09/28/2016

/2015District 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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

| Release Notification and Corrective Action             |  |  |   |   |                                      |  |   |                               |  |   |                              |                                     |
|--|--|--|---|---|--------------------------------------|--|---|-------------------------------|--|---|------------------------------|-------------------------------------|
|  |  |  |   |   |                                      | <b>OPERA</b> T                             |   |                               |  | ıl Report                                   |                              | Final Report                        |
| Name of Co   |  |  |   |   |                                      |  | bert McNeill  |                               |  |   |                              |                                     |
|  |  | inois Avenue   |   |   | ~                                    |  | No. 432 <b>-</b> 230-007                                      | 77                            |  |   |                              |                                     |
| Facility Nan   | ne: SOPA   | PILLA STA  | ΓE #001I  | <u>H</u>  | F                                    | Facility Typ                               | e: Battery  |                               |  |   |                              |                                     |
| Surface Own  | ner: State   |  |   | Mineral C   | )wner:                               |  |   |                               | API No                                       | . 30-025-4                                  | 0733                         | <del></del>                         |
|  |  |  |   | LOCA  | ATION                                | OF REI                                     | LEASE   |                               |  |   |                              |                                     |
| Unit Letter<br>M                                       | Section 2  | Township<br>23S  | Range<br>33E  | Feet from the 190'  | 1                                    | South Line South                           | Feet from the 380   |                               | West Line<br>West                            | ****  | Coun<br>Lea                  |                                     |
|  |  |  |   | Latitude 32.3   | 3270264                              | Longitude                                  | -103.5504532  |                               |  |   |                              |                                     |
|  |  |  |   | NAT   | URE (                                | OF RELI                                    | EASE  |                               |  |   |                              |                                     |
| Type of Relea  | ise:   |  |   |   |                                      | Volume of                                  | Release:  |                               | Volume R                                     | ecovered:                                   |                              |                                     |
| Oil<br>Source of Rel                                   | enga:  | ··········   |   |   |                                      | 11 bbls                                    | our of Occurrence   |                               | 5 bbls                                       | II a CDia                                   |                              |                                     |
| Dump valve   |  |  |   |   |                                      | 11/6/2015                                  |   | e:                            | 11/6/2015                                    | Hour of Disc<br>10:00 pm                    | covery                       | :                                   |
| Was Immedia  | Was Immediate Notice Given?  Yes No Not Required  If YES, To Whom?   |  |   |   |                                      |  |   |                               |  |   |                              |                                     |
| By Whom?   |  |  |   |   | Alunca                               | Date and H                                 | 011#1   |                               |  |   |                              |                                     |
| Was a Watercourse Reached?                             |  |  |   |   |                                      |  |   | he Wate                       | rcourse                                      |   |                              |                                     |
| Truo d' Truo de  | Was a Watercourse Reached?  Yes No  If YES, Volume Impacting the Watercourse.  |  |   |   |                                      |  |   |                               |  |   |                              |                                     |
| If a Watercou  | If a Watercourse was Impacted, Describe Fully.*  |  |   |   |                                      |  |   |                               |  |   |                              |                                     |
|  | Describe Cause of Problem and Remedial Action Taken.*  This release was caused by an oil dump on the KO not working properly causing the oil to be sent to the flare. A vacuum truck was dispatched to recover |  |   |   |                                      |  |   |                               |  |   |                              |                                     |
| the standing fl  |  | by an on dain  | роп шо 1  | to not working pa   | toperry ea                           | ausing me on                               | TO be sent to the   | 11410. 23                     | . vacuum ut                                  | uck was ars                                 | жин                          | 1 (0 1600)01                        |
| Describe Area  | Affected a   | and Cleanup A  | ction Take  | en.*  |                                      |  |   |                               |  |   |                              |                                     |
| will present a   | remediation  | n work plan to   | the NMO   | y. Concho will hav  | prior to a                           | any significan                             | nt remediation wo   | rk.                           |  |   |                              |                                     |
| regulations all<br>public health of<br>should their of | l operators a<br>or the envir<br>perations ha<br>ment. In ac   | are required to<br>conment. The<br>ave failed to a<br>ddition, NMO | report and<br>acceptance<br>dequately:<br>CD accept | is true and compl<br>d/or file certain re<br>e of a C-141 repo-<br>investigate and re<br>tance of a C-141 r | elease not<br>ort by the<br>emediate | tifications an<br>NMOCD ma<br>contaminatio | d perform correct<br>rked as "Final Re<br>on that pose a thre | ive action port" de at to gre | ons for rele<br>oes not relie<br>ound water, | ases which a<br>eve the open<br>surface wat | may en<br>ator of<br>ter, hu | ndanger<br>Tliability<br>man health |
|  |  | - Tue  | 0   | <i>*</i>  |                                      |  | OIL CONS  | SERV.                         | ATION I                                      | <u>DIVISIO</u>                              | N                            |                                     |
| Signature:   | 5 6  |  |   | CK:   |                                      | 1  |   |                               |  |   |                              |                                     |
| Printed Name:  | : Amanda '   | Trujillo Davis   |   |   | A                                    | approved by I                              | Environmental Sp  | ecialist                      | :  |   |                              |                                     |
| Title: Senior E  | Environmen   | ital Coordinate  | or  |   | A                                    | pproval Date                               | :   | E                             | Expiration D                                 | Date:                                       |                              |                                     |
| E-mail Addres  | ss: <u>atrujillo(</u>  | @concho.com  | <u>.</u>  |   | С                                    | Conditions of Approval:                    |   |                               |  | Attached                                    |                              |                                     |
| Date: Novem  | ıber 13, 201   | l 5 Pho  | ne: 575-74  | 48-6940   |                                      |  |   |                               |  |   |                              |                                     |

/2015District 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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

|                                |   |                 | Rele         | ease Notific                               | atio     | n and Co                | rrective A                    | ction     | ı                                       |                |              |                |
|--------------------------------|---|-----------------|--------------|--|----------|-------------------------|-------------------------------|-----------|---|----------------|--------------|----------------|
|                                |   |                 |              |  |          | OPERAT                  | TOR .                         |           | Initia                                  | al Report      |              | Final Report   |
| Name of Co                     |   |                 |              | 1 1737 20201                               |          |                         | bert McNeill                  |           |   |                |              |                |
| Address: 60<br>Facility Nan    |   |                 | ,            |  |          | Facility Typ            | lo. 432-230-007<br>e: Battery | 7         |   |                |              |                |
|                                |   |                 | 12 110012    |  | ' - ·    | <u> </u>                | c. Dattery                    |           | ADIAI                                   | 20.025.4       | 0.77.2       |                |
| Surface Own                    | ner: State  |                 |              | Mineral O                                  | wner:    |                         |                               |           | API No                                  | . 30-025-4     | 0733         |                |
|                                |   |                 |              |  |          | ON OF RELEASE           |                               |           |   |                |              |                |
| Unit Letter M                  | Section 2   | Township<br>23S | Range<br>33E | Feet from the 190'                         |          | /South Line<br>South    | Feet from the 380             |           | West Line<br>West                       |                | Coun<br>Lea  | •              |
|                                |   |                 |              |  |          |                         | -103.5504532                  |           | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                |              |                |
|                                | ٠   |                 |              |  |          | OF RELI                 |                               |           |   |                |              |                |
|                                | Type of Release: Volume of Release: Volume Recovered: |                 |              |  |          |                         |                               |           |   |                |              |                |
| Oil<br>Source of Rel           | ease:   |                 |              |  |          | 20 bbls  Date and H     | our of Occurrence             | ð:        | 19 bbls Date and l                      | Hour of Dis    | coverv       | :              |
| Closed Valve                   | Closed Valve  |                 |              |  |          |                         | 00 pm                         |           | 2/3/2016                                |                |              |                |
| Was Immedia                    | te Notice G   |                 | Yes 🗌        | No 🛛 Not Re                                | anired   | If YES, To              | Whom?                         |           |   |                |              |                |
| By Whom?                       |   |                 |              | 710 23 1100110                             | quirea   | Date and H              | 011 <b>r</b> *                |           |   |                |              |                |
| Was a Watero                   | ourse Reacl   | hed?            |              |  |          |                         | lume Impacting th             | ie Wate   | ercourse.                               |                |              |                |
|                                | ☐ Yes ☒ No  |                 |              |  |          |                         |                               |           |   |                |              |                |
| If a Watercou                  | rse was Imp   | acted, Descri   | be Fully.*   |  |          |                         |                               |           |   |                |              |                |
|                                |   |                 |              |  |          |                         |                               |           |   |                |              |                |
| Describe Caus                  | se of Proble  | m and Remed     | ist Action   | Taken *                                    |          |                         |                               |           |   |                |              |                |
| E pilots and i                 | nlet valves   | were being se   | rviced. Di   | ring the process t                         |          |                         |                               | was ne    | ever reopene                            | ed. As heate   | r Ioss p     | oressure fluid |
| eventually we                  | nt over the   | top and out th  | e flare. A   | vacuum truck was                           | s dispat | ched to recove          | er standing fluid.            |           |   |                |              |                |
|                                |   |                 |              |  |          |                         |                               |           |   |                |              |                |
| Describe Area                  | Affected a  | nd Cleanup A    | ction Tak    | en.*                                       |          |                         |                               |           |   |                |              |                |
| This release o                 | ccurred prin  | narily at the f | lare withir  | the flare contain                          | ment an  | nd impacted th          | e pasture nearby.             | Conch     | o will have                             | the spill site | sampl        | ed to          |
| delineate any                  | possible cor  | ntamination fr  | om the re    | lease and we will                          | present  | a remediation           | work plan to the              | NMO       | CD for appro                            | oval prior to  | any si       | gnificant      |
| remediation w                  | ork,  |                 |              |  |          |                         |                               |           |   |                |              |                |
|                                |   |                 |              | is true and compl                          |          |                         |                               |           |   |                |              |                |
|                                |   |                 |              | d/or file certain re<br>e of a C-141 repor |          |                         |                               |           |   |                |              |                |
| should their of                | perations ha  | ive failed to a | dequately    | investigate and re                         | mediate  | e contaminatio          | on that pose a thre           | at to gr  | ound water,                             | , surface wa   | ter, hui     | man health     |
| or the environ federal, state, |   |                 |              | ance of a C-141 r                          | eport do | oes not relieve         | the operator of re            | esponsi   | bility for co                           | mpliance w     | ith any      | other          |
| Todorar, States,               |   | o unco or regu  | ations.      |  |          |                         | OIL CONS                      | ERV       | ATION                                   | DIVISIO        | N            |                |
|                                |   | · Mar           | 1            |  |          |                         |                               |           |   |                |              |                |
| Signature:                     | Ken   | + Hum           |              |  | 1,       | Approved by 1           | Environmental Sp              | ecialist  |   |                | 1            |                |
|                                |   |                 |              |  |          | Approved of I           |                               | COMMINION | ••                                      |                | 1            |                |
| Printed Name:                  | Robert Gr   | ubbs            |              |  |          |                         |                               |           |   |                | <del>.</del> |                |
| Title: Senior F                | Environment   | tal Coordinate  | r            |  |          | Approval Date           | ):                            | ] ]       | Expiration I                            | Date:          |              |                |
| E-mail Addres                  | ss: rgrubbs@  | Deoncho.com     |              |  |          | Conditions of           | Approval:                     |           |   |                | _            |                |
|                                |   |                 |              |  | $\Box$   | Conditions of Approval: |                               |           | Attached                                |                |              |                |
| Date: Februa                   | ry 15, 2016   |                 | Phone:       | 432-230-0077                               |          |                         |                               |           |   |                |              |                |

Received by OCD; 11/29/2022 2:18:07 PM

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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

nservation Division
Submit 1 Copy to appropriate District Office i accordance with 19.15.29 NMAC

|   |  |   |  | Sai   | na re                          | , INIVI 6/5                                  | 03  |                               |  |  |                              |  |
|---|--|---|--|---|--------------------------------|--|---|-------------------------------|--|--|------------------------------|--|
|   |  |   | Rele   | ease Notifica   | ation                          | and Co                                       | rrective A  | ctio                          | n  |  |                              |  |
|   |  |   |  |   |                                | <b>OPERAT</b>                                | ΓOR   |                               | ☐ Initia                                     | ıl Report                                    | $\boxtimes$                  | Final Repor                                |
| Name of Co  |  |   |  |   |                                |  | bert McNeill  |                               |  | ,  |                              |  |
|   |  |   |  | nd, TX 79701  | $\overline{}$                  |  | No. 432-230-00  | 77                            |  |  |                              |  |
| Facility Nar  | ne: Sopap  | illa State #0                             | UIH  |   |                                | Facility Typ                                 | e: Battery  |                               |  |  |                              |  |
| Surface Ow  | ner: State   |   |  | Mineral O   | wner:                          |  |   |                               | API No                                       | . 30-025-4                                   | 0733                         |  |
|   |  |   |  | LOCA  | TIOI                           | N OF REI                                     | LEASE   |                               |  |  |                              |  |
| Unit Letter   | Section  | Township                                  | Range  | Feet from the   | North/                         | South Line                                   | Feet from the   | East/                         | West Line                                    | County                                       |                              |  |
| М   | 2  | 238                                       | 33E  | 190   | ;                              | South  | 380   |                               | West   | Lea Count                                    | y, NM                        | 1  |
|   |  |   | 1  | Latitude <u>N 32.32</u>   | 804°                           | Longitu                                      | de <u>W 103.5501</u>                                    | <u>5°</u>                     |  |  |                              |  |
|   |  |   |  | NAT   | URE                            | OF RELI                                      | EASE  |                               |  |  |                              |  |
| Type of Rele  |  |   |  |   |                                | Volume of                                    | Release: 11 bbls  |                               | Volume F                                     | tecovered:                                   | 5 bbis                       |  |
| Source of Re  | lease: Dum   | p valve                                   |  |   |                                | 1  | lour of Occurrenc                                       | e                             |  | Hour of Dis                                  | -                            | y  |
| Was Immedia   | ate Notice C   | Given?                                    |  |   |                                | If YES, To                                   | 6 @ 10:00 pm<br>Whom?                                   |                               | 11/06/201                                    | 5 @ 10:00                                    | om                           |  |
|   |  |   | Yes 🗆  | No 🛛 Not Rec  | quired                         | ,  |   |                               |  |  |                              |  |
| By Whom?  |  |   |  |   |                                | Date and H                                   |   |                               |  |  |                              |  |
| Was a Water   | course Read  |   | Yes 🗵  | 3 No  |                                | If YES, Vo                                   | lume Impacting t  | he Wa                         | tercourse.                                   |  |                              |  |
| If a Watercot   | irce was Im  | nacted Descr                              | ihe Fully                                    | *   |                                |  |   |                               |  |  |                              |  |
| ii a mulcicol   | 1150 7745 1111   | paerea, Descr                             | ioc i uny.                                   |   |                                |  |   |                               |  |  |                              |  |
|   |  |   |  |   |                                |  |   |                               |  |  |                              |  |
| Describe Cau  | se of Probl  | em and Reme                               | dial Actio                                   | n Taken.*   |                                |  |   |                               |  |  |                              |  |
| This release vall free-stand                                      |  | by an oil dum                             | p on the k                                   | CO not working pro  | perly o                        | causing the oi                               | I to be sent to the                                     | flare.                        | A vacuum ti                                  | ruck was dis                                 | patche                       | ed to recover                              |
| Describe Are  | a Affected   | and Cleanup /                             | Action Tal                                   | ken.*   |                                |  |   |                               |  |  |                              |  |
|   | of NMOCI   | ) via email on                            |  | ry. The site was de<br>16 and approved by   |                                |  |   |                               |  |  |                              |  |
| regulations a<br>public health<br>should their o<br>or the enviro | Il operators<br>or the envi<br>operations h<br>nment. In a | are required tronment. The nave failed to | o report and acceptant adequately OCD accept | e is true and complend/or file certain rece of a C-141 report investigate and reparted of a C-141 report and received and | lease n<br>nt by the<br>mediat | otifications a<br>e NMOCD m<br>e contaminati | nd perform correct arked as "Final R on that pose a thr | tive ac<br>eport"<br>eat to p | tions for rel<br>does not rel<br>ground wate | eases which<br>ieve the ope<br>r, surface wa | may e<br>rator o<br>ater, hu | endanger<br>of liability<br>uman health    |
|   |  |   |  |   |                                |  | OIL CON   | SER'                          | <u>VATION</u>                                | DIVISIO                                      | <u>)N</u>                    | ×  |
| Signature:  | -  | Tel. +1                                   | 1  | L   |                                |  |   |                               | 1/   | 1  |                              | 29.1                                       |
| Printed Nam   | •  | •   | 1  | /   |                                | Approved by                                  | Environmental S   | peciali                       | rusten                                       | lynch  |                              | Released to Imaging: 11/29/2022 2:21:59 PM |
| Title: Senior   | Environme  | ental Coordina                            | itor   |   |                                | Approval Da                                  | te: 10/5/2016   |                               | Expiration                                   | Date: N/A                                    | 1                            | 022  |
| E mail Adde   | acc: ramibb  | s@concho.co                               | 22   |   | - 1                            |  | f Approval: N/  |                               |  |  |                              | 29/2                                       |
|   |  |   |  | (422) (02.7   |                                | Conditions of                                | i Approvai.   |                               |  | Attached                                     | □<br>3981                    | . 11/                                      |
| Date: Se<br>Attach Addi   | ptember 28<br>tional She                                   |   |  | hone: (432) 683-74  | 143                            |  |   |                               |  | 1101   | 2701                         | ing  |
|   | onai one   |   | J  |   |                                |  |   |                               |  |  |                              | gpu  |
|   |  |   |  |   |                                |  |   |                               |  |  |                              | ) In                                       |
|   |  |   |  |   |                                |  |   |                               |  |  |                              | d to                                       |
|   |  |   |  |   |                                |  |   |                               |  |  |                              | ase  |
|   |  |   |  |   |                                |  |   |                               |  |  |                              | Rele                                       |
|   |  |   |  |   |                                |  |   |                               |  |  |                              |  |

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

### State of New Mexico **Energy Minerals and Natural Resources**

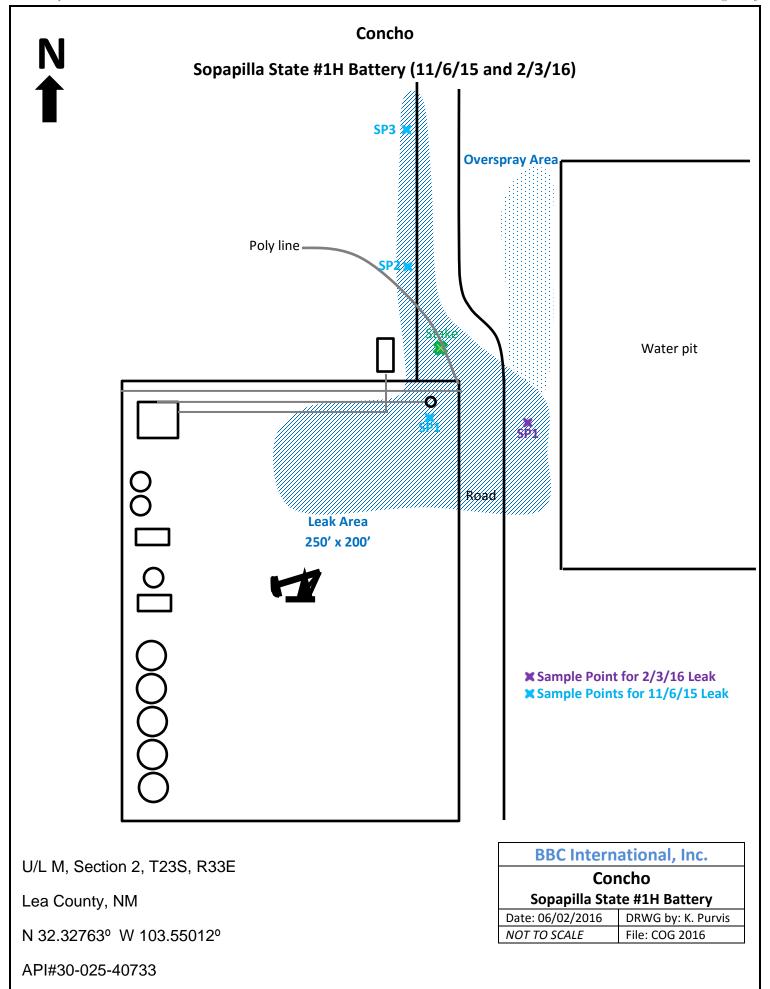
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

**Release Notification and Corrective Action** 

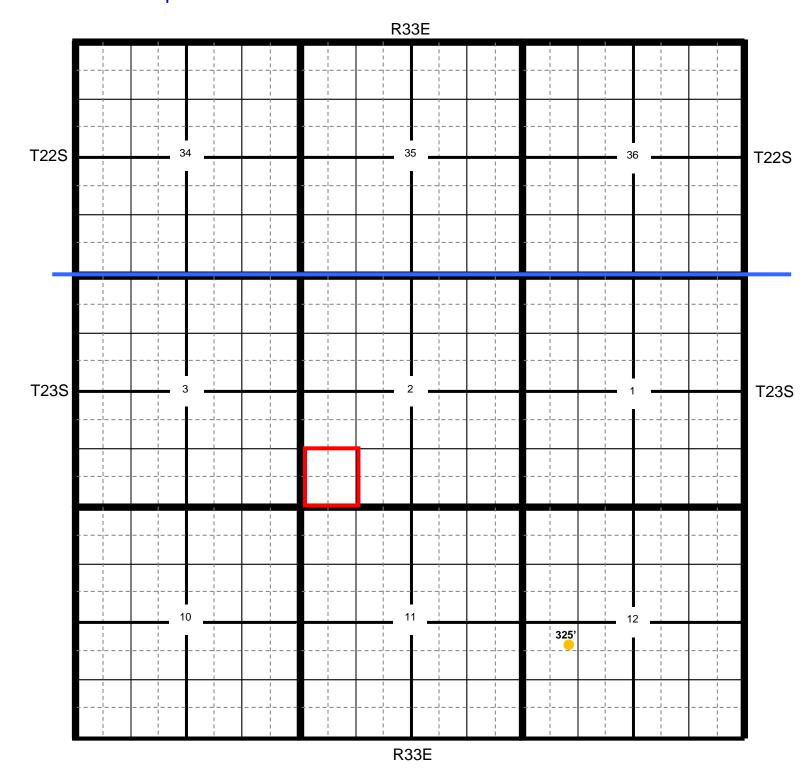
|   | OPERATOR    |                                 |            |   |                 |                |                          |           |               |   |          |  |
|---|-------------|---------------------------------|------------|---|-----------------|----------------|--------------------------|-----------|---------------|---|----------|--|
|   |             | OG Operati                      |            |   |                 |                | bert McNeill             |           |               |   |          |  |
|   |             |                                 |            | nd, TX 79701                                | _               |                | No. 432-230-00           | 77        |               |   |          |  |
| Facility Nar  | ne: Sopar   | illa State #0                   | 01H        |   |                 | Facility Typ   | e: Battery               |           |               |   |          |  |
| Surface Ow  | ner: State  |                                 |            | Mineral O                                   | wner:           |                |                          |           | API No        | . 30-025-                               | 10733    |  |
|   |             |                                 |            |   |                 | OF REI         | LEASE                    |           |               |   |          |  |
| Unit Letter   | Section     | Township                        | Range      | Feet from the                               | North/          | South Line     | Feet from the            | East/V    | Vest Line     | County                                  |          |  |
| M   | 2           | 23S                             | 33E        | 190   |                 | South          | 380                      | \         | Vest          | Lea Coun                                | ty, NM   |  |
|   |             |                                 | 1          | Latitude N 32.3                             | 2804°           | Longitu        | de <u>W 103.5501</u>     | 5°        |               |   |          |  |
| Type of Rele  | se. Oil     |                                 |            | NAT   | URE             | OF REL         | EASE<br>Release: 20 bbls | . 1       | Volume I      | Recovered:                              | 10 bbl   | -  |
| Source of Re  |             | ed valve                        |            |   |                 |                | lour of Occurrence       |           |               | Hour of Dis                             |          |  |
| 117 f   | Ni-si (     | 710                             |            |   |                 |                | 7:00 pm                  |           | 02/03/201     | 16 @ 7:00 p                             | m        |  |
| Was Immediate Notice Given?  ☐ Yes ☐ No ☒ Not Required If YES, To Whom? |             |                                 |            |   |                 |                |                          |           |               |   |          |  |
| By Whom? Date and Hour:   |             |                                 |            |   |                 |                |                          |           |               |   |          |  |
| Was a Water   | course Read |                                 | Yes 🗵      | ] No  |                 | If YES, Vo     | lume Impacting t         | the Wate  | ercourse.     |   |          |  |
| If a Watercou   | irse was Im | pacted, Descr                   | ibe Fully. | *   |                 |                |                          |           |               |   |          |  |
|   |             |                                 |            |   |                 |                |                          |           |               |   |          |  |
| Describe Cau  | so of Deabl | em and Reme                     | dial Astio | n Takon *                                   |                 |                |                          |           |               |   |          |  |
| Describe Cal  | se of Probl | em and Reme                     | uiai Actio | n raken.                                    |                 |                |                          |           |               |   |          |  |
|   |             |                                 |            | uring the process                           |                 |                |                          |           |               | ed. As the                              | heater l | lost pressure,                             |
| Describe Are  | a Affected  | and Cleanup /                   | Action Tal | ken.*                                       |                 |                |                          |           |               |   |          |  |
|   |             |                                 |            | n the flare contain                         |                 |                |                          |           |               |   |          |  |
|   |             |                                 |            | ted in accordance                           |                 |                |                          |           | pproved o     | , | 0.00     |  |
|   |             |                                 |            | is true and comp                            |                 |                |                          |           |               |   |          |  |
|   |             |                                 |            | nd/or file certain re<br>ce of a C-141 repo |                 |                |                          |           |               |   |          |  |
| should their  | perations l | have failed to                  | adequately | investigate and re                          | emediat         | e contaminati  | on that pose a thr       | eat to gr | ound water    | r, surface w                            | ater, hu | ıman health                                |
|   |             | addition, NMC<br>ws and/or regi |            | stance of a C-141                           | report d        | oes not reliev | e the operator of        | respons   | ibility for c | ompliance v                             | with any | y other                                    |
| redetal, state  | or local la | ws atteror regi                 | mations.   |   |                 |                | OIL CON                  | SERV      | ATION         | DIVISIO                                 | NC       | _  |
| Signature:  | -           | Zelet s                         | 1          | /   |                 |                |                          |           |               |   |          | Ed a                                       |
| Printed Nam   |             |                                 | /          | ^   |                 | Approved by    | Environmental S          | pecialis  | t:            |   |          | Released to Imaging: 11/29/2022 2:21:59 PM |
| _   |             |                                 |            |   | $\neg \uparrow$ | AI D           |                          |           | Caralland an  | Date                                    |          | 2.2.                                       |
| Title: Senior   | Environm    | ental Coordina                  | itor       |   | -               | Approval Da    | ie:                      |           | Expiration    | Date:                                   |          | 78   |
| E-mail Addr   | ess: rgrubb | s@concho.co                     | <u>m</u>   |   | -               | Conditions of  | f Approval:              |           |               | Attached                                | i 🗆      | 1/29,                                      |
|   | tember 28.  |                                 |            | ne: (432) 683-744                           | 3               |                |                          |           |               | <u> </u>                                |          |  |
| Attach Addi   | tional She  | ets If Necess                   | загу       |   |                 |                |                          |           |               |   |          | nigi                                       |
|   |             |                                 |            |   |                 |                |                          |           |               |   |          | Ima  |
|   |             |                                 |            |   |                 |                |                          |           |               |   |          | 1 to                                       |
|   |             |                                 |            |   |                 |                |                          |           |               |   |          | asea                                       |
|   |             |                                 |            |   |                 |                |                          |           |               |   |          | Rele                                       |
|   |             |                                 |            |   |                 |                |                          |           |               |   |          | ~  |



### **Groundwater Plot**

### Concho Sopapilla State #1H Battery

Trend Map 375'



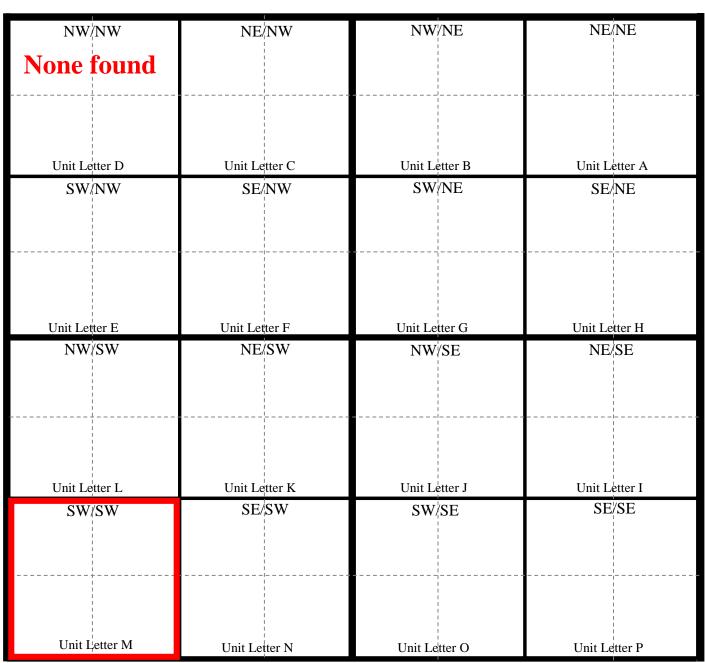
### **Section Quarters**

### Concho Sopapilla State #1H Battery

CountyUnit LetterSectionTownshipRangeLeaM223S33E

Trend Map 375'

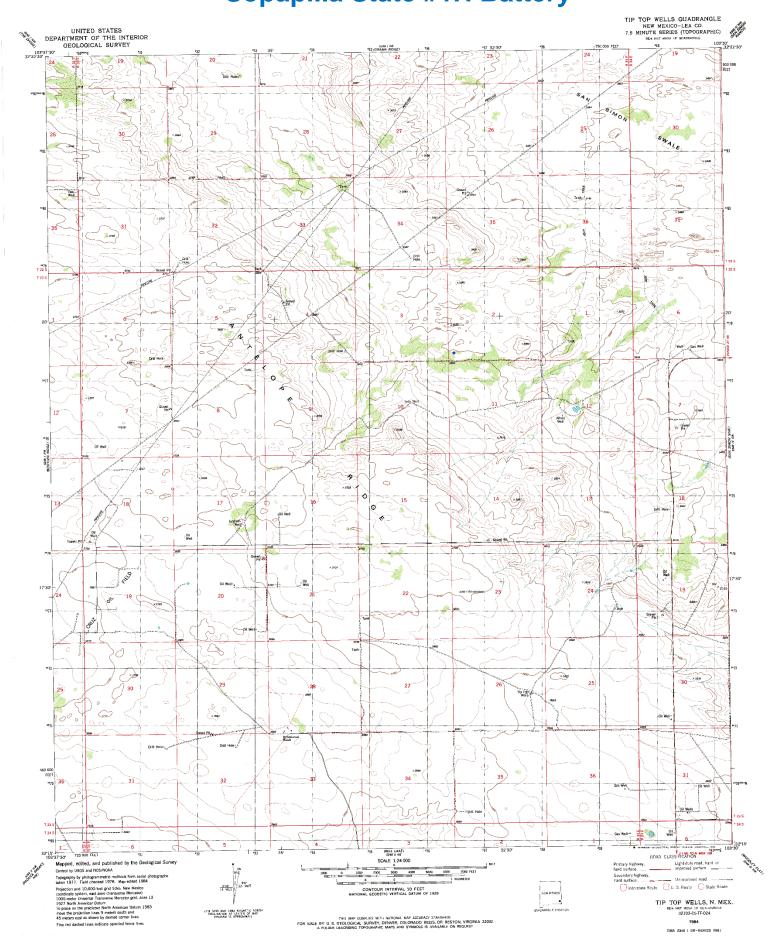
1



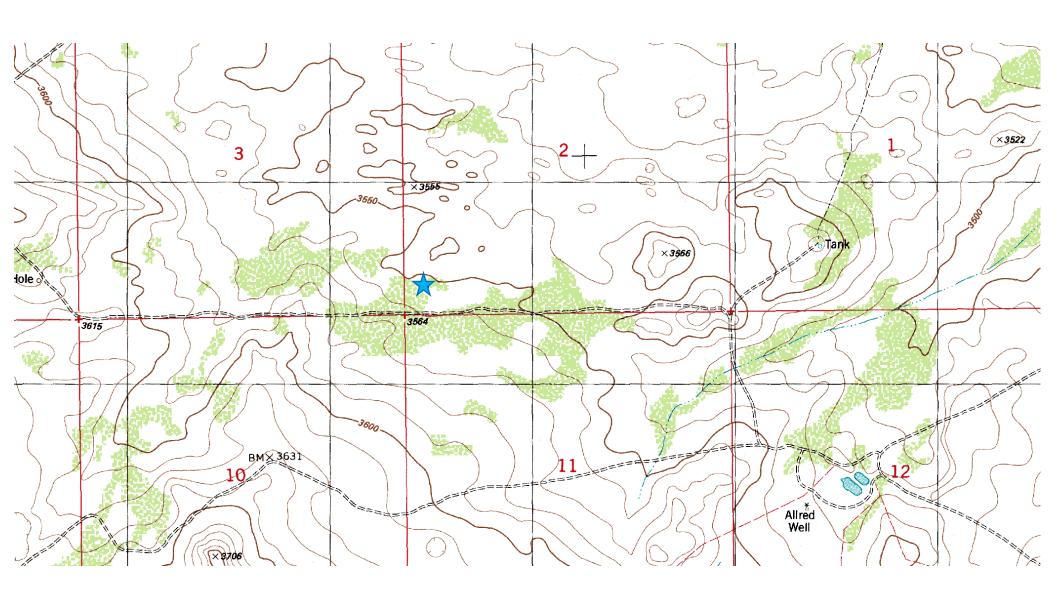
3

### **Concho**

### **Sopapilla State #1H Battery**



### Concho Sopapilla State #1H Battery



### Laboratory Analytical Results Summary Sopapilla State 1H Battery - 11-6-15

|               |            | Sample | S1 @<br>Surface | SP1 @ 1' | S1 @ 2' | S1 @ 3' |
|---------------|------------|--------|-----------------|----------|---------|---------|
| Analyte       | Method     | Date   | 1/18/16         | 1/18/16  | 1/18/16 | 1/18/16 |
|               |            |        | mg/Kg           | mg/Kg    | mg/Kg   | mg/Kg   |
| Benzene       | BTEX 8021B |        | 7.32            | < 0.050  | < 0.050 | < 0.050 |
| Toluene       | BTEX 8021B |        | 57.1            | < 0.050  | < 0.050 | < 0.050 |
| Ethylbenzene  | BTEX 8021B |        | 21.7            | < 0.050  | < 0.050 | < 0.050 |
| Total Xylenes | BTEX 8021B |        | 81.9            | <0.150   | <0.150  | < 0.150 |
| Total BTEX    | BTEX 8021B |        | 168             | < 0.300  | < 0.300 | < 0.300 |
|               |            |        |                 |          |         |         |
| GRO           | TPH 8015M  |        | 4450            | <10.0    | <10.0   | <10.0   |
| DRO           | TPH 8015M  |        | 9440            | <10.0    | <10.0   | <10.0   |

|                      |            | Sample | S2 @<br>Surface | SP2 @ 1' | S2 @ 2' | S2 @ 3' |
|----------------------|------------|--------|-----------------|----------|---------|---------|
| Analyte              | Method     | Date   | 1/18/16         | 1/18/16  | 1/18/16 | 1/18/16 |
|                      |            |        | mg/Kg           | mg/Kg    | mg/Kg   | mg/Kg   |
| Benzene              | BTEX 8021B |        | < 0.050         | < 0.050  | < 0.050 | < 0.050 |
| Toluene              | BTEX 8021B |        | 0.094           | < 0.050  | < 0.050 | < 0.050 |
| Ethylbenzene         | BTEX 8021B |        | 0.183           | < 0.050  | < 0.050 | < 0.050 |
| <b>Total Xylenes</b> | BTEX 8021B |        | 0.878           | <0.150   | <0.150  | <0.150  |
| Total BTEX           | BTEX 8021B |        | 1.15            | < 0.300  | < 0.300 | < 0.300 |
|                      |            |        |                 |          |         |         |
| GRO                  | TPH 8015M  |        | 131             | <10.0    | <10.0   | <10.0   |
| DRO                  | TPH 8015M  |        | 1340            | <10.0    | <10.0   | <10.0   |

|                      |            | Sample | S3 @<br>Surface | SP3 @ 1' | S3 @ 2' | S3 @ 3' |
|----------------------|------------|--------|-----------------|----------|---------|---------|
| Analyte              | Method     | Date   | 1/18/16         | 1/18/16  | 1/18/16 | 1/18/16 |
|                      |            |        | mg/Kg           | mg/Kg    | mg/Kg   | mg/Kg   |
| Benzene              | BTEX 8021B |        | <1.00           | 3.17     | < 0.050 | <0.050  |
| Toluene              | BTEX 8021B |        | 11.9            | 38       | < 0.050 | 0.173   |
| Ethylbenzene         | BTEX 8021B |        | 10.5            | 16.1     | < 0.050 | < 0.050 |
| <b>Total Xylenes</b> | BTEX 8021B |        | 40.8            | 59.4     | <0.150  | <0.150  |
| Total BTEX           | BTEX 8021B |        | 63.2            | 117      | < 0.300 | < 0.300 |
|                      |            |        |                 |          |         |         |
| GRO                  | TPH 8015M  |        | 2020            | 3810     | <10.0   | <10.0   |
| DRO                  | TPH 8015M  |        | 5210            | 7760     | <10.0   | <10.0   |

### Page 12 of 5

### Laboratory Analytical Results Summary Sopapilla State 1H Battery

|                      |            | Sample | S1 @<br>Surface | SP1 @ 1' |
|----------------------|------------|--------|-----------------|----------|
| Analyte              | Method     | Date   | 2/5/16          | 2/5/16   |
|                      |            |        | mg/Kg           | mg/Kg    |
| Benzene              | BTEX 8021B |        | < 0.050         | < 0.050  |
| Toluene              | BTEX 8021B |        | < 0.050         | < 0.050  |
| Ethylbenzene         | BTEX 8021B |        | < 0.050         | < 0.050  |
| <b>Total Xylenes</b> | BTEX 8021B |        | <0.150          | <0.150   |
| Total BTEX           | BTEX 8021B |        | < 0.300         | < 0.300  |
| Chloride             | SM4500CI-B |        | 464             | 576      |
| GRO                  | TPH 8015M  |        | <10.0           | <10.0    |
| DRO                  | TPH 8015M  |        | 353             | <10.0    |



January 25, 2016

**DAKOTA NEEL** 

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SOPAPILLA ST #1 H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/20/16 14:00.

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 D. Keine

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

Page 1 of 17



### Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/20/2016

Reported: Project Name: 01/25/2016

SOPAPILLA ST #1 H BATTERY

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

01/18/2016

Sample ID: S1 - SURFACE (H600133-01)

| BTEX 8021B     | mg     | /kg             | Analyzed By: MS |              |      |            |               |      |           |
|----------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | 7.32   | 2.00            | 01/22/2016      | ND           | 1.71 | 85.6       | 2.00          | 6.03 |           |
| Toluene*       | 57.1   | 2.00            | 01/22/2016      | ND           | 1.83 | 91.6       | 2.00          | 5.89 |           |
| Ethylbenzene*  | 21.7   | 2.00            | 01/22/2016      | ND           | 1.70 | 85.2       | 2.00          | 5.40 |           |
| Total Xylenes* | 81.9   | 6.00            | 01/22/2016      | ND           | 5.26 | 87.7       | 6.00          | 5.81 |           |
| Total BTEX     | 168    | 12.0            | 01/22/2016      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL

102 %

73.6-140

| TPH 8015M    | mg     | /kg             | Analyze    | d By: MS     |     |            |               |      | S-06      |
|--------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | 4450   | 50.0            | 01/21/2016 | ND           | 186 | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28 | 9440   | 50.0            | 01/21/2016 | ND           | 189 | 94.3       | 200           | 4.86 |           |
|              | 3440   | 30.0            | 01/21/2010 | ND           | 109 | 94.5       | 200           | 4.80 |           |

Surrogate: 1-Chlorooctane

179 %

35-147

Surrogate: 1-Chlorooctadecane

177%

28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celego treens -

Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 NONE Fax To:

Received: Reported: 01/20/2016

Project Name: Project Number: Project Location: 01/25/2016

SOPAPILLA ST #1 H BATTERY

NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Soil

Cool & Intact

Jodi Henson

01/18/2016

Sample ID: S1 - 1' (H600133-02)

| BTEX 8021B                           | mg/     | kg              | Analyze    | d By: MS     |      |            |               |      |           |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | < 0.050 | 0.050           | 01/22/2016 | ND           | 1.71 | 85.6       | 2.00          | 6.03 |           |
| Toluene*                             | < 0.050 | 0.050           | 01/22/2016 | ND           | 1.83 | 91.6       | 2.00          | 5.89 |           |
| Ethylbenzene*                        | <0.050  | 0.050           | 01/22/2016 | ND           | 1.70 | 85.2       | 2.00          | 5.40 |           |
| Total Xylenes*                       | < 0.150 | 0.150           | 01/22/2016 | ND           | 5.26 | 87.7       | 6.00          | 5.81 |           |
| Total BTEX                           | <0.300  | 0.300           | 01/22/2016 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 %   | 6 73.6-140      | )          |              |      |            |               |      |           |
| TPH 8015M                            | mg/     | kg              | Analyze    | d By: MS     |      |            |               |      |           |

| TPH 8015M                 | mg,    | /kg             | Analyze    | d By: MS     |     |            |               |      |           |
|---------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                   | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                | <10.0  | 10.0            | 01/21/2016 | ND           | 186 | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28              | <10.0  | 10.0            | 01/21/2016 | ND           | 189 | 94.3       | 200           | 4.86 |           |
| Surrogate: 1-Chlorooctane | 85 1   | % 35-147        | s          |              |     |            |               |      |           |

84.6% 28-171 Surrogate: 1-Chlorooctadecane

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 NONE Fax To:

Received:

01/20/2016

Reported:

01/25/2016

Project Name:

SOPAPILLA ST #1 H BATTERY

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Cool & Intact Jodi Henson

01/18/2016

Soil

Sample ID: S1 - 2' (H600133-03)

| BTEX 8021B                           | mg/    | 'kg             | Analyze    | ed By: MS    |      |            |               |      | -         |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/22/2016 | ND           | 1.71 | 85.6       | 2.00          | 6.03 |           |
| Toluene*                             | <0.050 | 0.050           | 01/22/2016 | ND           | 1.83 | 91.6       | 2.00          | 5.89 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 01/22/2016 | ND           | 1.70 | 85.2       | 2.00          | 5.40 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 01/22/2016 | ND           | 5.26 | 87.7       | 6.00          | 5.81 |           |
| Total BTEX                           | <0.300 | 0.300           | 01/22/2016 | ND           |      |            | 2             |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 9  | 73.6-14         | 0          |              |      |            |               |      |           |
| TPH 8015M                            | mg/    | kg              | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                           | <10.0  | 10.0            | 01/21/2016 | ND           | 186  | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 01/21/2016 | ND           | 189  | 94.3       | 200           | 4.86 |           |
| Surrogate: 1-Chlorooctane            | 74.7 9 | % 35-147        |            |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 75.69  | % 28-171        |            |              |      |            |               |      |           |

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\*=Accredited Analyte

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Celeg I treens -

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 NONE Fax To:

Received:

01/20/2016

Reported:

01/25/2016

Project Name:

SOPAPILLA ST #1 H BATTERY

Project Number: Project Location: NONE GIVEN **NOT GIVEN** 

83.4 %

28-171

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 01/18/2016

Soil

Cool & Intact

Jodi Henson

Sample ID: S1 - 3' (H600133-04)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/22/2016 | ND           | 1.71 | 85.6       | 2.00          | 6.03 |           |
| Toluene*                             | <0.050 | 0.050           | 01/22/2016 | ND           | 1.83 | 91.6       | 2.00          | 5.89 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 01/22/2016 | ND           | 1.70 | 85.2       | 2.00          | 5.40 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 01/22/2016 | ND           | 5.26 | 87.7       | 6.00          | 5.81 |           |
| Total BTEX .                         | <0.300 | 0.300           | 01/22/2016 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 101 9  | % 73.6-14       | 0          | -            |      |            |               |      |           |
| TPH 8015M                            | mg/    | 'kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                           | <10.0  | 10.0            | 01/21/2016 | ND           | 186  | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 01/21/2016 | ND           | 189  | 94.3       | 200           | 4.86 |           |
| Surrogate: 1-Chlorooctane            | 85.2   | % 35-147        |            |              |      |            | 26            | W    |           |

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/20/2016

Reported:

01/25/2016

Project Name:

SOPAPILLA ST #1 H BATTERY

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

01/18/2016 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S2 - SURFACE (H600133-05)

| BTEX 8021B                           | mg     | /kg             | Analyze    | ed By: MS    |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/22/2016 | ND           | 1.71 | 85.6       | 2.00          | 6.03 |           |
| Toluene*                             | 0.094  | 0.050           | 01/22/2016 | ND           | 1.83 | 91.6       | 2.00          | 5.89 |           |
| Ethylbenzene*                        | 0.183  | 0.050           | 01/22/2016 | ND           | 1.70 | 85.2       | 2.00          | 5.40 |           |
| Total Xylenes*                       | 0.878  | 0.150           | 01/22/2016 | ND           | 5.26 | 87.7       | 6.00          | 5.81 |           |
| Total BTEX                           | 1.15   | 0.300           | 01/22/2016 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 120 9  | % 73.6-14       | 0          |              |      |            |               |      |           |
| TPH 8015M                            | mg/    | kg              | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                           | 131    | 10.0            | 01/21/2016 | ND           | 186  | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28                         | 1340   | 10.0            | 01/21/2016 | ND           | 189  | 94.3       | 200           | 4.86 |           |
| Surrogate: 1-Chlorooctane            | 103 9  | % 35-147        |            |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 93.15  | % 28-171        |            |              |      |            |               |      |           |

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/20/2016

Reported:

01/25/2016

Project Name:

SOPAPILLA ST #1 H BATTERY NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Cool & Intact Jodi Henson

01/18/2016

Soil

Sample ID: S2 - 1' (H600133-06)

BTEX 8021B

mg/kg

Analyzed By: MS

|                |        |                 |            |              |      |            | AND THE RESERVE OF THE PARTY OF |      |           |
|----------------|--------|-----------------|------------|--------------|------|------------|--|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC  | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/22/2016 | ND           | 1.71 | 85.6       | 2.00   | 6.03 |           |
| Toluene*       | <0.050 | 0.050           | 01/22/2016 | ND           | 1.83 | 91.6       | 2.00   | 5.89 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/22/2016 | ND           | 1.70 | 85.2       | 2.00   | 5.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/22/2016 | ND           | 5.26 | 87.7       | 6.00   | 5.81 |           |
| Total BTEX     | <0.300 | 0.300           | 01/22/2016 | ND           |      |            |  |      |           |
|                |        |                 |            |              |      |            |  |      |           |

Surrogate: 4-Bromofluorobenzene (PIL

101 %

73.6-140

| TPH 8015M    | mg     | /kg             | Analyze    | d By: MS     |     |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 01/21/2016 | ND           | 186 | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 01/21/2016 | ND           | 189 | 94.3       | 200           | 4.86 |           |

Surrogate: 1-Chlorooctane 76.9 % 35-147

Surrogate: 1-Chlorooctadecane

79.1%

28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/20/2016

Reported:

01/25/2016

Project Name:

SOPAPILLA ST #1 H BATTERY

Project Number:

NONE GIVEN

Project Location: NOT GIVEN Sampling Date:

Sampling Type:

Soil

Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

01/18/2016

Sample ID: S2 - 2' (H600133-07)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | ed By: MS    |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/23/2016 | ND           | 1.77 | 88.7       | 2.00          | 3.26 |           |
| Toluene*                             | <0.050 | 0.050           | 01/23/2016 | ND           | 1.90 | 95.2       | 2.00          | 2.96 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 01/23/2016 | ND           | 1.76 | 88.2       | 2.00          | 2.90 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 01/23/2016 | ND           | 5.40 | 90.1       | 6.00          | 2.38 |           |
| Total BTEX                           | <0.300 | 0.300           | 01/23/2016 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 9  | % 73.6-14       | 0          |              |      |            |               |      |           |
| TPH 8015M                            | mg/    | kg              | Analyze    | ed By: MS    |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                           | <10.0  | 10.0            | 01/21/2016 | ND           | 186  | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 01/21/2016 | ND           | 189  | 94.3       | 200           | 4.86 |           |
| Surrogate: 1-Chlorooctane            | 79.5 9 | % 35-147        | te .       |              |      | į Ī=       |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 80.09  | % 28-171        |            |              |      |            |               |      |           |

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### Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

BTEX 8021B

01/20/2016

Reported: Project Name: 01/25/2016

SOPAPILLA ST #1 H BATTERY

Project Number: Project Location: NONE GIVEN

ma/ka

81.4%

80.9%

35-147

28-171

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Soil

Sample Received By:

Cool & Intact

01/18/2016

Jodi Henson

Sample ID: S2 - 3' (H600133-08)

| DIEX 0021D                           | mg,    | Kg              | Allalyze   | a by. 143    |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/23/2016 | ND           | 1.77 | 88.7       | 2.00          | 3.26 |           |
| Toluene*                             | <0.050 | 0.050           | 01/23/2016 | ND           | 1.90 | 95.2       | 2.00          | 2.96 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 01/23/2016 | ND           | 1.76 | 88.2       | 2.00          | 2.90 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 01/23/2016 | ND           | 5.40 | 90.1       | 6.00          | 2.38 |           |
| Total BTEX                           | <0.300 | 0.300           | 01/23/2016 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 99.8   | % 73.6-14       | 0          |              |      |            |               |      |           |
| TPH 8015M                            | mg/    | 'kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                           | <10.0  | 10.0            | 01/21/2016 | ND           | 186  | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 01/21/2016 | ND           | 189  | 94.3       | 200           | 4.86 |           |
|                                      |        |                 |            |              |      |            |               |      |           |

Analyzed Ry: MS

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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### Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 NONE Fax To:

Received:

01/20/2016

Reported:

01/25/2016

Project Name:

SOPAPILLA ST #1 H BATTERY

Project Number: Project Location:

NONE GIVEN NOT GIVEN

125 %

28-171

Sampling Date:

Sampling Type:

Sampling Condition:

Soil

Cool & Intact

Sample Received By:

Jodi Henson

01/18/2016

Sample ID: S3 - SURFACE (H600133-09)

| BTEX 8021B                           | mg/    | kg              | Analyze    | d By: MS     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <1.00  | 1.00            | 01/23/2016 | ND           | 1.77 | 88.7       | 2.00          | 3.26 |           |
| Toluene*                             | 11.9   | 1.00            | 01/23/2016 | ND           | 1.90 | 95.2       | 2.00          | 2.96 |           |
| Ethylbenzene*                        | 10.5   | 1.00            | 01/23/2016 | ND           | 1.76 | 88.2       | 2.00          | 2.90 |           |
| Total Xylenes*                       | 40.8   | 3.00            | 01/23/2016 | ND           | 5.40 | 90.1       | 6.00          | 2.38 |           |
| Total BTEX                           | 63.2   | 6.00            | 01/23/2016 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 106 %  | 6 73.6-14       | 0          |              |      |            |               |      |           |
| TPH 8015M                            | mg/    | kg              | Analyze    | d By: MS     |      | .:<br>     |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                           | 2020   | 50.0            | 01/22/2016 | ND           | 199  | 99.5       | 200           | 1.09 |           |
| DRO >C10-C28                         | 5210   | 50.0            | 01/22/2016 | ND           | 202  | 101        | 200           | 1.53 |           |
| Surrogate: 1-Chlorooctane            | 133 %  | 6 35-147        |            |              |      | 2 42       |               |      |           |

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Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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### Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 NONE Fax To:

Received:

01/20/2016

Reported: Project Name: 01/25/2016

SOPAPILLA ST #1 H BATTERY

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 01/18/2016

Soil

Cool & Intact

Jodi Henson

Sample ID: S3 - 1' (H600133-10)

| BTEX 8021B                           | mg/    | kg              | Analyze    | d By: MS     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | 3.17   | 2.00            | 01/23/2016 | ND           | 1.77 | 88.7       | 2.00          | 3.26 |           |
| Toluene*                             | 38.0   | 2.00            | 01/23/2016 | ND           | 1.90 | 95.2       | 2.00          | 2.96 |           |
| Ethylbenzene*                        | 16.1   | 2.00            | 01/23/2016 | ND           | 1.76 | 88.2       | 2.00          | 2.90 |           |
| Total Xylenes*                       | 59.4   | 6.00            | 01/23/2016 | ND           | 5.40 | 90.1       | 6.00          | 2.38 |           |
| Total BTEX                           | 117    | 12.0            | 01/23/2016 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 104 %  | 6 73.6-14       | 0          |              |      |            |               |      |           |
| TDU 901EM                            | ma!    | len             | Analysis   | d Dur MC     |      |            |               |      | C 06      |

| TPH 8015M                 | mg/    | /kg             | Analyze    | d By: MS     |     |            |               |      | S-06      |
|---------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                   | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                | 3810   | 50.0            | 01/22/2016 | ND           | 199 | 99.5       | 200           | 1.09 |           |
| DRO >C10-C28              | 7760   | 50.0            | 01/22/2016 | ND           | 202 | 101        | 200           | 1.53 |           |
| Surrogate: 1-Chlorooctane | 161 9  | % 35-147        | ,          |              |     |            |               |      |           |

161%

Surrogate: 1-Chlorooctadecane

157%

28-171

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### Analytical Results For:

COG OPERATING **DAKOTA NEEL** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/20/2016

Reported: Project Name: 01/25/2016

SOPAPILLA ST #1 H BATTERY

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Soil

Sample Received By:

Cool & Intact Jodi Henson

01/18/2016

Sample ID: S3 - 2' (H600133-11)

| BTEX 8021B   | mg,                           | /kg             | Analyze    | d By: MS     |      |            | ***           |      |           |
|--|-------------------------------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte  | Result                        | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*   | <0.050                        | 0.050           | 01/23/2016 | ND           | 1.77 | 88.7       | 2.00          | 3.26 |           |
| Toluene*   | < 0.050                       | 0.050           | 01/23/2016 | ND           | 1.90 | 95.2       | 2.00          | 2.96 |           |
| Ethylbenzene*  | <0.050                        | 0.050           | 01/23/2016 | ND           | 1.76 | 88.2       | 2.00          | 2.90 |           |
| Total Xylenes*   | <0.150                        | 0.150           | 01/23/2016 | ND           | 5.40 | 90.1       | 6.00          | 2.38 |           |
| Total BTEX   | <0.300                        | 0.300           | 01/23/2016 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene  | (PIE 100 S                    | % 73.6-14       | 0          |              |      |            |               |      |           |
| antinet verter i station and de la proposition della proposition | Mark Strategie Accelerated to |                 |            |              |      |            |               |      |           |

| TPH 8015M    | mg     | /kg             | Analyze    | d By: MS     |     |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 01/22/2016 | ND           | 199 | 99.5       | 200           | 1.09 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 01/22/2016 | ND           | 202 | 101        | 200           | 1.53 |           |
|              |        |                 |            |              |     |            |               |      |           |

| Surrogai | e: I | -Chi | orooci | ane |
|----------|------|------|--------|-----|
|          |      |      |        |     |

69.8 %

35-147

Surrogate: 1-Chlorooctadecane

71.8%

28-171

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### Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

01/20/2016

Reported: Project Name: 01/25/2016

SOPAPILLA ST #1 H BATTERY

Project Number: Project Location:

NONE GIVEN

72.1%

28-171

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

01/18/2016

Sample ID: S3 - 3' (H600133-12)

| BTEX 8021B                           | mg/    | kg              | Analyze    | d By: MS     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/23/2016 | ND           | 1.77 | 88.7       | 2.00          | 3.26 |           |
| Toluene*                             | 0.173  | 0.050           | 01/23/2016 | ND           | 1.90 | 95.2       | 2.00          | 2.96 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 01/23/2016 | ND           | 1.76 | 88.2       | 2.00          | 2.90 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 01/23/2016 | ND           | 5.40 | 90.1       | 6.00          | 2.38 |           |
| Total BTEX                           | <0.300 | 0.300           | 01/23/2016 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 101 9  | % 73.6-14       | 0          |              |      |            |               |      |           |
| TPH 8015M                            | mg/    | kg              | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                           | <10.0  | 10.0            | 01/22/2016 | ND           | 199  | 99.5       | 200           | 1.09 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 01/22/2016 | ND           | 202  | 101        | 200           | 1.53 |           |
| Surrogate: 1-Chlorooctane            | 69.5   | % 35-147        |            |              |      |            |               |      |           |

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Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celegit treens

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celeg L. Krene -

Celey D. Keene, Lab Director/Quality Manager

Page 14 of 17

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

|  | (575) 393-2326 FAX (575) 393-24/6   | 6   |   |  |                             | 1 |
|--|---|---|---|--|-----------------------------|---|
| Company Name:  | COG Operating LLC   |   | BILL TO   |  | ANALYSIS REQUEST            | 1 |
| Project Manager:   | Dakota Neel   |   | P.O. #:   |  |                             |   |
| Address: 2208  | 2208 West Main  |   | Company: COG Operating LLC  | ng LLC   |                             |   |
| 7  | State: NM   | <b>Zip</b> 88210  | Attn: Robert McNeill  |  |                             |   |
| Phone #:   | (575) 748-6930 Fax #:   | L2<br>-2  | Address: 600 W Illinois   | nois   |                             |   |
| Project #:   | Project Owner:  |   | City: Midland   |  |                             |   |
| ame:   | Sopapilla St #1H Battery  | 9   | State: TX Zip: 79701  |  |                             |   |
| Project Location:  |   |   | Phone #: (432) 221-0388   |  |                             |   |
| Sampler Name:  | Dakota Neel   |   | 1   |  |                             |   |
| FOR LAB USE ONLY   |   | MATRIX  | PRESERV. SAMPLING   | IG   |                             |   |
|  | 2.0   | ERS<br>ATER   |   |  |                             |   |
| Lab I.D.   | Sample I.D.   | RAB OR (  DINTAINE  DUNDWA  STEWAT  DUNGE   | HER:<br>D/BASE:<br>/ COOL<br>HER:   | 1  |                             |   |
| 1000133  |   | # CO<br>GRO<br>WAS<br>SOIL<br>OIL   | ICE /   | BTE TPH  |                             |   |
| <b>.</b>   | S1- Surface   |   | × 1/18/16   | 8:00 AM × ×  |                             |   |
| ng   | \$1-2   |   |   | ×  |                             |   |
| 도(   | \$1-3   |   | × 1/18/16   | 8:00 AM × ×  |                             |   |
|  |   |   | x 1/18/16   | 8:00 AM × ×  |                             | - |
|  |   |   | 18,   |  |                             | - |
|  |   |   |   |  |                             | - |
|  |   | and the second second   |   |  |                             | - |
| PLEASE NOTE: Liability and analyses. All claims including service in no event shall Ca | PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the paid pass. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business internations loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business internations, loss of use, or loss of profits recurred by client, its subsidiaries. | ny claim arising whether based in contract<br>deemed warved unless made in writing at<br>g without limitation, business interruptions | based in contract or tort, shall be limited to the amount pair<br>made in writing and rescieved by Cardinal within 30 days afte<br>east interruptions, loss of use, or loss of profits incurred by Cardinal within 30 days after<br>the state of the sta | nt past by the client for the<br>a after completion of the applicable<br>d by chemt, its subsidianes.<br>fed masons or otherwise |                             |   |
| Relinquished By:   | Time: Date: Received By: Received By: Received By:  | Received By: Received By:   |   | Phone Result:  | Add'l Phone #: Add'l Fax #: |   |
|  | Time:   | (   |   |  |                             |   |
| Delivered By:  | Delivered By: (Circle One)  | Sample Co   | tion CHECKED BY:<br>(Initials)  |  |                             |   |
| Sampler - UPS  | - Bus - Other:  | 4.8°C LYes LYes   | No Col  |  |                             |   |
| s. Please fax written  | s. Please fax written changes to 575-393-2476   | 7   |   |  |                             |   |

## 101 East Marland, Hobbs, NM 88240

| (;  | (5/5) 393-2326 FAX (5/5) 393-24/6   | /6   |  |   |                 |                                | 1   |
|---|---|--|--|---|-----------------|--------------------------------|-----|
| Company Name:   | COG Operating LLC   |  | BILL TO  |   | AN              | ANALYSIS KEWDES                |     |
| Project Manager:  | Dakota Neel   |  | P.O. #:  |   |                 |                                |     |
| Address: 2208 W   | 2208 West Main  |  | Company: COG Operating LLC   | ng LLC  |                 |                                |     |
| 116   | State: NM   | <b>Zip</b> 88210   | Attn: Robert McNeill   |   |                 |                                |     |
| ē #:  | (575) 748-6930 Fax #:   |  | Address: 600 W Illinois  | Sio   |                 |                                | ph. |
| Project #:  | Project Owner:  |  | City: Midland  |   |                 |                                |     |
| ame:  | Sopapilla St #1H Battery  |  | State: TX Zip: 79701   |   |                 |                                |     |
| Project Location:   |   |  | Phone #: (432) 221-0388  |   |                 |                                |     |
| Sampler Name:   | Dakota Neel   |  | 1  |   |                 |                                |     |
| FOR LAB USE ONLY  |   | MATRIX   | PRESERV. SAMPLING  | <u> </u>  |                 |                                |     |
| Lab I.D.  | Sample I.D.   | G)RAB OR (C)OMF<br>CONTAINERS<br>GROUNDWATER<br>WASTEWATER<br>SOIL<br>DIL<br>SLUDGE  | OTHER: ACID/BASE: ICE / COOL OTHER:  | BTEX  | TPH<br>Chloride | l                              |     |
| N   | S2- Surface   |  | ×  | 8:00 AM ×   | × ×             |                                |     |
| 76  | S2-2'   |  | x 1/18/16  | -   | ×               |                                |     |
| OD.   | S2-3'   |  | x 1/18/16  | 8:00 AM ×   | ×               |                                |     |
| (   |   |  | × 1/18/16  | 8:00 AM ×   | ×               |                                |     |
|   |   |  |  |   |                 |                                |     |
|   |   |  |  |   |                 |                                |     |
| PLEASE NOTE: Liability and C<br>analyses. All claims including t<br>service. In no event shall Card | PLEASE NOTE: Lability and Damages. Cardmai's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be innited to the amount paid by the client for the amplicable arialyses. All claims including those for regignence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardmai within 30 days after completion of the applicable service. In no event shall Cardmai be liable for incidental or consequential damages, including which inflation, business interruptions, loss of last, or loss of profits incurred by client, is subsidiaries. | any clam ansing whether based in contra<br>of deemed waived unless made in writing a<br>g without limitation, business interruptions | ct or tort, shall be imated to the amount paic<br>nd received by Cardinal within 30 days after<br>Loss of use, or loss of profits incurred by comes have during a property of the above stated re- | by the client for the<br>r completion of the applic<br>fient, its subsidiaries,<br>asons or otherwise |                 |                                |     |
| Relinquished By: Relinquished By:   | Time: Relinquished By:  Relinquished By:  Date:  Time:  Relinquished By:  Time:  Date:  Time:   | 1  | Received By:   | Phone Result:   | N 0 N           | Add'l Phone #:<br>Add'l Fax #: |     |
| Delivered By: (Circle One)  |   |  | ition CHECKED BY: (Initials)   |   |                 |                                |     |
| Sampler - UPS -   | Bus - Other:  | NON TON TOR 18.15  | C  |   |                 |                                |     |
| s. Please fax writt   | Please fax written changes to 575-393-2476  | ます   |  |   |                 |                                |     |

590

| PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or tout, shall be limited to the amount paid by the client for the analysis and logist the completion of the applicable analysis. All claims including those for registence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after the claims in the claims.  |
|---|
| is, loss of use or  |
| service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, busness interruptors, loss of use of issue in provide the performance of services hereunder by Caldinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.  Phone Results  Phone |
| Phone Result: Yes No  |
| Add'l Phone #:  |
|   |



February 23, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SOPAPILLA ST #1 H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/16 10:35.

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/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited 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.

Celey & Keene

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

Page 1 of 5



### Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

BTEX 8021B

GRO C6-C10

DRO >C10-C28

02/17/2016

02/23/2016

Sampling Date:

02/05/2016

Reported: Project Name:

SOPAPILLA ST #1 H BATTERY

Sampling Type: Sampling Condition: Soil Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

99.1

108

200

200

5.85

12.2

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1-SURFACE (H600368-01)

| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Benzene*                             | <0.050 | 0.050           | 02/19/2016 | ND           | 2.04 | 102        | 2.00          | 0.658 |           |
| Toluene*                             | <0.050 | 0.050           | 02/19/2016 | ND           | 2.01 | 101        | 2.00          | 0.555 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 02/19/2016 | ND           | 1.82 | 91.1       | 2.00          | 0.118 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 02/19/2016 | ND           | 5.64 | 94.0       | 6.00          | 0.224 |           |
| Total BTEX                           | <0.300 | 0.300           | 02/19/2016 | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 107 9  | % 73.6-14       | 0          |              |      |            |               |       |           |
| Chloride, SM4500CI-B                 | mg/    | kg              | Analyze    | d By: AP     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 464    | 16.0            | 02/19/2016 | ND           | 416  | 104        | 400           | 3.92  |           |
| TPH 8015M                            | mg/    | kg              | Analyze    | d By: MS     |      |            |               |       | -         |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |

ND

198

02/19/2016

02/19/2016

Analyzed By: MS

Surrogate: 1-Chlorooctadecane 96.8 % 35-147
Surrogate: 1-Chlorooctadecane 108 % 28-171

<10.0

353

10.0

10.0

Cardinal Laboratories

\*=Accredited Analyte

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Celey L. Keine -

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

BTFX 8021B

02/17/2016

Reported: Project Name: 02/23/2016

SOPAPILLA ST #1 H BATTERY

Project Number: Project Location: NONE GIVEN

ma/ka

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 02/05/2016

Soil Cool & Intact

Jodi Henson

Sample ID: S1-1' (H600368-02)

| B1EX 8021B                           | mg/     | kg              | Analyze    | d By: MS     |      |            |               |       |           |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050  | 0.050           | 02/19/2016 | ND           | 2.04 | 102        | 2.00          | 0.658 |           |
| Toluene*                             | <0.050  | 0.050           | 02/19/2016 | ND           | 2.01 | 101        | 2.00          | 0.555 |           |
| Ethylbenzene*                        | < 0.050 | 0.050           | 02/19/2016 | ND           | 1.82 | 91.1       | 2.00          | 0.118 |           |
| Total Xylenes*                       | <0.150  | 0.150           | 02/19/2016 | ND           | 5.64 | 94.0       | 6.00          | 0.224 |           |
| Total BTEX                           | <0.300  | 0.300           | 02/19/2016 | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 109 %   | 73.6-140        | )          |              |      |            |               |       |           |
| Chloride, SM4500CI-B                 | mg/     | kg              | Analyze    | d By: AP     |      |            |               |       |           |
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 576     | 16.0            | 02/19/2016 | ND           | 416  | 104        | 400           | 3.92  |           |
| TPH 8015M                            | mg/     | kg              | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10                           | <10.0   | 10.0            | 02/19/2016 | ND           | 198  | 99.1       | 200           | 5.85  |           |
| DRO >C10-C28                         | <10.0   | 10.0            | 02/19/2016 | ND           | 216  | 108        | 200           | 12.2  |           |
|                                      |         |                 |            |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 106 %   | 6 35-147        |            |              |      |            |               |       |           |

Analyzed By: MS

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5

ND



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

### **Notes and Definitions**

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

Relinquished By:

Sampletin NUBBER Bus - Other: Delivered By: (Circle One) Relinquished By:

DAKOTA NEEL

Time: 10.35 Date:

Received By:

Date:

Received By

Phone Result: Fax Result: REMARKS:

□ Yes

N N

Add'l Phone #: Add'l Fax #:

2/17/2016

Time:

service. In no event shall Cardinal be analyses. All claims including those for

PLEASE NOTE: Liability

## CARDINAL Laboratories 101 East Marland. Hobbs. NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| (575) 393-2326 I                | (575) 393-2326 FAX (575) 393-2476  |                            |                 |
|---------------------------------|--|----------------------------|-----------------|
| Company Name: COG Operating LLC | TC   | BILL TO                    | ANALTSIS NEGOCO |
| Project Manager: Dakota Neel    | A CONTRACTOR OF THE PROPERTY O | P.O. #:                    |                 |
| Address: 2208 West Main         |  | Company: COG Operating LLC |                 |
| City: Artesia                   | State: NM Zip 88210  | Attn: Robert McNeill       |                 |

|                   | (575) 393-2326 FAX (575) 393-2476        |   |   |                  |
|-------------------|--|---|---|------------------|
| Company Name:     | COG Operating LLC                        |   | BILL TO   | ANALYSIS REQUEST |
| Project Manager:  | Dakota Neel                              |   | P.O. #:   |                  |
| Address: 2208     | 2208 West Main                           |   | Company: COG Operating LLC                              |                  |
| City: Artesia     | State: NM                                | Zip 88210   | Attn: Robert McNeill                                    |                  |
| Phone #:          | (575) 748-6930 Fax #:                    |   | Address: 600 W Illinois                                 |                  |
| Project #:        | Project Owner:                           | 18<br>18<br>18  | City: Midland   |                  |
| Project Name: S   | Project Name: Sopapilla State 1H Battery | ii<br>a   | State: TX Zip: 79701                                    |                  |
| Project Location: |  |   | Phone #: (432) 221-0388                                 |                  |
| Sampler Name:     | Dakota Neel                              |   | 1   |                  |
| FOR LAB USE ONLY  |  | MAIRIX  | TREUERA.  |                  |
| Lab I.D.          | Sample I.D.                              | G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE | DTHER: ACID/BASE: ICE / COOL OTHER:  DATE TIME BTEX TPH | Chloride         |
| 20Cm              | S1-Surface                               | #<br>G<br>W<br>× S  | 2/5/16 10:00 AM X                                       | ×                |
| 72.               | S1- 1'                                   | ×   | 2/5/16 10:00 AM X X                                     | ×                |
|                   |  |   |   |                  |
|                   |  |   |   |                  |
|                   |  |   |   |                  |
|                   |  |   |   |                  |
|                   |  |   | If the Facility of the amount had by the right for the  |                  |

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Sample Condition
Cool Intact
Lilves Lives

CHECKED B

atrujillo@concho.com

lcarrasco@concho.com

dneel2@concho.com

Page 5 of 5

From: Keyes, Jamie, EMNRD
To: Cliff Brunson

Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Amber Groves; Kathy Purvis

Subject: RE: Concho - Sopapilla State #1 - Remediation Plan

**Date:** Tuesday, August 9, 2016 12:51:34 PM

### Good afternoon,

The work plan is approved.

Thank you,

### Jamie

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

**Sent:** Friday, August 05, 2016 5:01 PM **To:** Keyes, Jamie, EMNRD; Amber Groves

**Cc:** Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis **Subject:** Concho - Sopapilla State #1 - Remediation Plan

Jamie and Amber,

I have attached the remediation packet that we used in our discussion of the remediation plan for the Concho Sopapilla State #1 leak site. You will find the details of the remediation plan on the first page of the packet. Both agencies have given their verbal approval of this plan and I am requesting that you reply via e-mail with your approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA

Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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From: <u>Groves, Amber</u>

To: <u>Keyes, Jamie, EMNRD</u>; <u>Cliff Brunson</u>

 Cc:
 Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis

 Subject:
 RE: Concho - Sopapilla State #1 - Remediation Plan

**Date:** Thursday, August 18, 2016 3:20:29 PM

Attachments: <u>image002.png</u>

image001.png

Good Afternoon.

NMSLO is in concurrence with NMOCD.

Thank you,

## **Amber Groves**

Remediation Specialist Field Operations Division (575)392-3697 (575)263-3209 cell New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88260

.....

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From: Keyes, Jamie, EMNRD [mailto:Jamie.Keyes@state.nm.us]

**Sent:** Tuesday, August 09, 2016 12:52 PM

To: Cliff Brunson <cbrunson@bbcinternational.com>

**Cc:** Robert Grubbs <RGrubbs@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Groves, Amber <agroves@slo.state.nm.us>; Kathy Purvis <kathy@bbcinternational.com>

Subject: RE: Concho - Sopapilla State #1 - Remediation Plan

Good afternoon,

The work plan is approved.

Thank you,

## Jamie

**From:** Cliff Brunson [mailto:cbrunson@bbcinternational.com]

**Sent:** Friday, August 05, 2016 5:01 PM **To:** Keyes, Jamie, EMNRD; Amber Groves

**Cc:** Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis **Subject:** Concho - Sopapilla State #1 - Remediation Plan

Jamie and Amber,

I have attached the remediation packet that we used in our discussion of the remediation plan for the Concho Sopapilla State #1 leak site. You will find the details of the remediation plan on the first page of the packet. Both agencies have given their verbal approval of this plan and I am requesting that you reply via e-mail with your approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 162241

## **CONDITIONS**

| Operator:           | OGRID:   |  |
|---------------------|--|--|
| COG PRODUCTION, LLC | 217955   |  |
| 600 W. Illinois Ave | Action Number:                                   |  |
| Midland, TX 79701   | 162241   |  |
|                     | Action Type:                                     |  |
|                     | [IM-SD] Incident File Support Doc (ENV) (IM-BNF) |  |

## CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| amaxwe     | I None    | 11/29/2022     |