

RECEIVED By OCD District 1 at 7:31 am, Jun 09, 2015

June 1, 2015

APPROVED CONDITIONAL By OCD District 1 at 7:32 am, Jun 09, 2015

1. Ensure BLM concurrence.

Oil Conservation Division District 2 – Artesia 811 S. First St. Artesia, NM 88210

Re: WBP Federal Com #1 30-025-35296 Sec. 8, T19S-R32E Lea County, NM

Ms. Kellie Jones,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated October 28, 2014.

Background

The release was caused by a produced water tank that overflowed. The initial release consisted of approximately 20 barrels of oil and 350 barrels of produced water which 12 barrels of oil and 330 barrels of produced water were recovered. The release impacted inside the battery facility and the nearby pasture. The impacted area in the pasture is approximately 30' by 100'. A crew was dispatched to dispose of impacted soil within the facility. Approximately 6" to 8" of impacted soil was removed.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero due to the depth of groundwater at approximately 400'. No well information could be found for Section 8.

Soil Assessment and Analytical Results

Initial soil samples were taken on 11-18-14 within the battery facility on the pad. Approximate locations are depicted on the attached Site Diagram as (Yellow Shading) S1, S2, S3, and S4. Additional soil samples were taken on 1/15/2015 in the impacted pasture with approximate locations shown as (Green Shading) S1, S2, S3, and S4.

Yellow Shading

Sample results indicated BTEX and TPH levels are non-detect within the bermed facility, with chloride levels favorable for future surface reclamation (S1-S3).

Sample results for the pad (S4) indicate TPH and BTEX levels to be non-detect with chloride levels slightly elevated. Additional sample points were not taken because of the same soil type and compaction is homogeneous and therefore representative of the pad area.

Green Shading

Chloride levels for sample points S1-S4 are within tolerable levels for surface reclamation.

TPH and BTEX levels:

- ➢ S1 − Within RRAL's
- S2 TPH is elevated to a depth of 1' with BTEX elevated to a depth of 3'
- S₃ TPH and BTEX are elevated to a depth of 1'
- S4 TPH and BTEX are elevated to a depth of 4'

Site Ranking: 0 Depth to GW per SEO: 400'

Sample points taken on 11/18/2014

| S1 | GRO | DRO | ТРН | BTEX | CI- |
|------------|------------|--------------|--------|-----------|---------|
| 1' | ND | ND | ND | ND | 480 |
| 2' | NA | NA | NA | NA | 352 |
| S2 | GRO | DRO | ТРН | BTEX | CI- |
| 1' | ND | ND | ND | ND | 208 |
| 2' | NA | NA | NA | NA | 224 |
| S 3 | GRO | DRO | ТРН | BTEX | CI- |
| 1' | ND | ND | ND | ND | 272 |
| 2' | NA | NA | NA | NA | 432 |
| S4 | GRO | DRO | ТРН | BTEX | CI- |
| 1' | ND | ND | ND | ND | 1920 |
| 2' | NA | NA | NA | NA | 2520 |
| 3' | NA | NA | NA | NA | 272 |
| Sam | ple points | taken on 1/1 | 5/2015 | ALL STATE | AL STOL |

| S1 | GRO | DRO | ТРН | BTEX | CI- |
|----------------|------|-------|----------|--|------|
| 1' | 279 | 1320 | 1599 | 29.8 | 128 |
| 2' | 61.4 | 364 | 425.4 | 5.79 | 112 |
| 3' | ND | ND | ND | ND | 416 |
| S2 | GRO | DRO | TPH | BTEX | CI- |
| 1' | 5960 | 14300 | 20260 | 486 | 112 |
| 2' | 52.3 | 214 | 266.3 | 12.6 | 240 |
| 3' | 591 | 1860 | 2451 | 114 | 464 |
| 4' | ND | 301 | 301 | 0.362 | 160 |
| 53 | GRO | DRO | ТРН | BTEX | CI- |
| 1' | 9220 | 20100 | 29320 | 1070 | 80 |
| 2' | 15 | 68.4 | 83.4 | 0.604 | 256 |
| 3' | ND | 228 | 228 | ND | 1200 |
| 4 ¹ | NA | NA | NA | NA | 400 |
| S4 | GRO | DRO | TPH | BTEX | CI- |
| 1' | 6380 | 15300 | 21680 | 647 | 176 |
| 2' | 1460 | 3740 | 5200 | 178 | 544 |
| 3' | 1440 | 4160 | 5600 | 171 | 512 |
| 41 | | | 14 ST 14 | and the second s | |
| 4' | 1550 | 4930 | 6480 | 166 | 416 |

Work Plan

COG proposes the excavation of the following sample areas:

Yellow Shading

- S1-S3 No further remediation needed
- $\mathbf{S4}$ Will be remediated at the time of abandonment

Green Shading

- **S1** Light Scrape
- $\mathbf{S2}$ Excavate to a depth of 3.5' and haul for disposal
- $\mathbf{S3}$ Excavate to a depth of 1.5' and haul for disposal
- S4 Excavate to a depth of 4.5' and haul for disposal

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact me with any questions or concerns at (432) 234-0490.

Sincerely,

Garrett B. Merket

Environmental Coordinator

Enclosed

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

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WBP Federal Com #1

WBP Release Area

Legend

Section 8, T19S-R32E Released: 20 B/O; 350 B/PW Recovered: 12 B/O; 330 B/PW

Site Ranking: 0

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Depth to GW per SEO: 400'

Sample points taken on 11/18/2014

| | GRO | DRO | ТРН | BTEX | Ċ |
|---|-----|-----|-----|------|------|
| | DN | DN | DN | DN | 480 |
| | NA | NA | NA | NA | 352 |
| | GRO | DRO | ТРН | BTEX | CI- |
| | DN | DN | DN | DN | 208 |
| | NA | NA | NA | NA | 224 |
| | GRO | DRO | ТРН | BTEX | CI- |
| | DN | QN | QN | QN | 272 |
| | NA | NA | NA | NA | 432 |
| _ | GRO | DRO | TPH | BTEX | cl- |
| | DN | DN | DN | DN | 1920 |
| | NA | NA | NA | NA | 2520 |
| _ | NA | NA | NA | NA | 272 |

| LLI | 1599 | 425.4 | DN | ТРН | 20260 | 266.3 | 2451 |
|-----|------|-------|--------------------------|---|-------|-------|------|
| | 1320 | 364 | DN | DRO | 14300 | 214 | 1860 |
| 040 | 279 | 61.4 | DN | GRO | 5960 | 52.3 | 591 |
| | | | Contraction of the later | and the second se | | | |

S2

S4

4 m 1

128

29.8 5.79 ND

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BTEX

Sample points taken on 1/15/2015

3

S3

CBD

S1

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m N

416

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BTEX

112

240 464

114

112

486 12.6

160

0.362

301

301

QN

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BTEX

TPH

DRO

GRO

S3

80

1070

29320

20100 68.4 228 NA

9220

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83.4 228 NA

1200 400

ND

544

171 156 166 ND

21680 5200 512 416

5600 6480 136

1440 1550 ND

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647

15300 3740 4160 4930 136

6380 1460

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BTEX

TPH

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GRO

S4

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NDN

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

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

Release Notification and Corrective Action

OPERATOR

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

Form C-141

Revised August 8, 2011

Final Reno

Initial Report

| Name of Co | mpany: C | OG Operati | ng LLC | | | Contact: Ro | bert McNeill | | | |
|-----------------------------|-----------------------------|-----------------|--------------|--|---------------|---|----------------------|-------------------|------------------|--------------------|
| | | inois Avenue | | d TX 79701 | | | lo. 432-230-007 | 77 | | |
| - | | Federal Con | | | | Facility Typ | | | | |
| Surface Ow | ner: Feder | | | Mineral | | | | ADI | NL 20 005 0 | <u> </u> |
| Surface Ow | ner. reuer | a1 | | - Willeral C | Jwner | reueral | | API | No. 30-025-3 | 5296 |
| | | | | LOCA | ATIO | N OF REI | LEASE | | | |
| Unit Letter | Section | Township | Range | Feet from the | | South Line | Feet from the | East/West Lir | ie | County |
| M | 8 | 195 | 32E | 660 | | South | 660 | West | | Lea |
| | | | Lat | itude32.669549 | 9900410 |)5 Longitud | e-103.7948491 | 8328 | | |
| | | | | | | OF RELI | | | | |
| Type of Rele | ase: | | | | URE | Volume of | | Volum | e Recovered: | |
| Oil & Produc | | | | | | | ; 350 bbls PW | | s Oil; 330 bbls | PW |
| Source of Release: | | | | | | our of Occurrenc | | nd Hour of Dis | | |
| Water tank | | | | | 10/28/2014 | | | 2014 11:30 am | | |
| Was Immediate Notice Given? | | | | | | If YES, To | | 2 | | |
| | | | Yes 🗌 | No 🗌 Not R | equired | Tomas Obe | erding – NMOCD | / Jeffery Rober | tson – BLM | |
| By Whom? | | | | | | | our: 10/29/2014 | | | |
| Was a Water | course Read | | V N | 1.57 | | If YES, Volume Impacting the Watercourse. | | | | |
| | | | Yes 🛛 | NO | | | | | | |
| If a Watercou | irse was Im | pacted, Descr | ibe Fully.* | t. | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Describe Cau | se of Proble | em and Reme | dial Action | n Taken.* | | | | | | |
| This release | was caused | by a water tan | k overflov | v. Vacuum trucks | s were di | spatched to pi | ick up all standing | g fluids and disp | ose of at an NI | MOCD approved |
| facility. | | | | | | | | | | |
| | | | | | | | | | | |
| Describe Are | a Affected | and Cleanup A | Action Tak | an * | | | | | | |
| The impacted | a Anceleu a l area 30'x1 | 00' in front o | f the batter | rv to the southeas | t. Conch | o will have th | e spill site sample | ed to delineate a | inv possible co | ntamination from |
| the release an | nd we will p | resent a reme | diation wo | rk plan to the NM | 10CD fc | or approval pr | ior to any signific | ant remediation | work. | |
| | - | | | | | | | | | |
| 71 | C 11 1 1 | 0 | | | | 1 | | | | |
| I hereby certi | Ty that the i | ntormation gi | ven above | is true and comp nd/or file certain r | electe to the | ne best of my | knowledge and u | nderstand that p | ursuant to NM | OCD rules and |
| public health | or the envi | onment. The | accentanc | e of a C-141 repo | ort hy the | NMOCD m | arked as "Final R | eport" does not | releases which | may endanger |
| should their o | perations h | ave failed to a | dequately | investigate and r | emediate | e contaminatio | on that pose a three | eat to ground wa | iter, surface wa | iter, human health |
| or the enviror | nment. In a | ddition, NMC | CD accep | tance of a C-141 | report de | oes not relieve | e the operator of r | esponsibility fo | r compliance w | ith any other |

| federal, state, or local laws and/or regulations. | | | | | |
|---|---------------------------------------|------------------|--|--|--|
| Signature: | OIL CONSE | RVATION DIVISION | | | |
| Printed Name: Amanda Trujillo | Approved by Environmental Specialist: | | | | |
| Title: Senior Environmental Coordinator | Approval Date: | Expiration Date: | | | |
| E-mail Address: atrujillo@concho.com Date: November 11, 2014 Phone: 575-748-6940 | Conditions of Approval: | Attached | | | |
| Date: November 11, 2014 1 1016. 575-748-0940 | | | | | |

* Attach Additional Sheets If Necessary



November 18, 2014

GARRETT MERKET

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: WBP FEDERAL COM #1

Enclosed are the results of analyses for samples received by the laboratory on 11/13/14 10:55.

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

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 11/13/2014 | Sampling Date: | 11/12/2014 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 11/18/2014 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S1 - 1' (H403500-01)

| 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 | 11/17/2014 | ND | 1.83 | 91.3 | 2.00 | 6.10 | |
| Toluene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.77 | 88.4 | 2.00 | 5.96 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.71 | 85.3 | 2.00 | 7.07 | |
| Total Xylenes* | <0.150 | 0.150 | 11/17/2014 | ND | 5.12 | 85.3 | 6.00 | 7.69 | |
| Total BTEX | <0.300 | 0.300 | 11/17/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 98.8 9 | % 61-154 | ! | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 480 | 16.0 | 11/14/2014 | ND | 400 | 100 | 400 | 0.00 | |
| 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 | 11/14/2014 | ND | 186 | 92.8 | 200 | 0.855 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/14/2014 | ND | 188 | 94.1 | 200 | 1.14 | |
| Surrogate: 1-Chlorooctane | 113 9 | 47.2-15 | 7 | | | | | | |
| Surrogate: I-Chlorooctadecane | 127 9 | 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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Celeg L. Keeno -

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 11/13/2014 | Sampling Date: | 11/12/2014 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 11/18/2014 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S1 - 2' (H403500-02)

| 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 | 11/17/2014 | ND | 1.83 | 91.3 | 2.00 | 6.10 | |
| Toluene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.77 | 88.4 | 2.00 | 5.96 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.71 | 85.3 | 2.00 | 7.07 | |
| Total Xylenes* | <0.150 | 0.150 | 11/17/2014 | ND | 5.12 | 85.3 | 6.00 | 7.69 | |
| Total BTEX | <0.300 | 0.300 | 11/17/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 96.4 9 | 61-154 | | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 352 | 16.0 | 11/14/2014 | ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | <u></u> | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/14/2014 | ND | 187 | 93.7 | 200 | 3.04 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/14/2014 | ND | 191 | 95.6 | 200 | 4.30 | |
| Surrogate: 1-Chlorooctane | 115 % | 6 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 124 9 | 6 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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Celeg L. Keens -

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 11/13/2014 | Sampling Date: | 11/12/2014 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 11/18/2014 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S2 - 1' (H403500-03)

| 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 | 11/17/2014 | ND | 1.83 | 91.3 | 2.00 | 6.10 | |
| Toluene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.77 | 88.4 | 2.00 | 5.96 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.71 | 85,3 | 2.00 | 7.07 | |
| Total Xylenes* | <0.150 | 0.150 | 11/17/2014 | ND | 5.12 | 85.3 | 6.00 | 7.69 | |
| Total BTEX | <0.300 | 0.300 | 11/17/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 99.0 9 | 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 11/14/2014 | ND | 400 | 100 | 400 | 0.00 | |
| 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 | 11/14/2014 | ND | 187 | 93.7 | 200 | 3.04 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/14/2014 | ND | 191 | 95.6 | 200 | 4.30 | |
| Surrogate: 1-Chlorooctane | 1169 | 6 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | | | | | | | | | |

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*=Accredited Analyte

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Celeg Di Karno -

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 11/13/2014 | Sampling Date: | 11/12/2014 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 11/18/2014 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S2 - 2' (H403500-04)

| BTEX 8021B | mg/ | kg | Апајуze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.83 | 91.3 | 2.00 | 6.10 | |
| Toluene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.77 | 88.4 | 2.00 | 5.96 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.71 | 85.3 | 2.00 | 7.07 | |
| Total Xylenes* | <0.150 | 0.150 | 11/17/2014 | ND | 5.12 | 85.3 | 6.00 | 7.69 | |
| Total BTEX | <0.300 | 0.300 | 11/17/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 98.6 9 | 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 11/14/2014 | ND | 400 | 100 | 400 | 0.00 | |
| 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 | 11/14/2014 | ND | 187 | 93.7 | 200 | 3.04 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/14/2014 | ND | 191 | 95.6 | 200 | 4.30 | |
| Surrogate: 1-Chlorooctane | 112 % | 6 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 1229 | 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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Celeg D. Keine -

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 11/13/2014 | Sampling Date: | 11/12/2014 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 11/18/2014 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S3 - 1' (H403500-05)

| 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 | 11/17/2014 | ND | 1.83 | 91.4 | 2.00 | 8.21 | |
| Toluene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.76 | 88.2 | 2.00 | 6.70 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.75 | 87.4 | 2.00 | 6.66 | |
| Total Xylenes* | <0.150 | 0.150 | 11/17/2014 | ND | 5.27 | 87.9 | 6.00 | 6.78 | |
| Total BTEX | <0.300 | 0.300 | 11/17/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 97.3 9 | 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 272 | 16.0 | 11/14/2014 | ND | 400 | 100 | 400 | 0.00 | |
| 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 | 11/14/2014 | ND | 187 | 93.7 | 200 | 3.04 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/14/2014 | ND | 191 | 95.6 | 200 | 4.30 | |
| Surrogate: 1-Chlorooctane | 112 9 | 6 47.2-15 | 7 | | | | | | |
| Surrogate: I-Chlorooctadecane | 125 % | 52.1-17 | 6 | | | | | | |

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Celeg L. Keeno -

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 11/13/2014 | Sampling Date: | 11/12/2014 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 11/18/2014 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S3 - 2' (H403500-06)

| BTEX 8021B | mg/ | kg | Апајуze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.83 | 91.4 | 2.00 | 8.21 | |
| Toluene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.76 | 88.2 | 2.00 | 6.70 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.75 | 87.4 | 2.00 | 6.66 | |
| Total Xylenes* | <0.150 | 0.150 | 11/17/2014 | ND | 5.27 | 87.9 | 6.00 | 6.78 | |
| Total BTEX | <0.300 | 0.300 | 11/17/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 97.6 | % 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 432 | 16.0 | 11/14/2014 | ND | 400 | 100 | 400 | 0.00 | |
| 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 | 11/14/2014 | ND | 187 | 93.7 | 200 | 3.04 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/14/2014 | ND | 191 | 95.6 | 200 | 4.30 | |
| Surrogate: 1-Chlorooctane | 1169 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 129 9 | % 52.1-17 | 6 | | | | | | |

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Celegit Keeno -

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 11/13/2014 | Sampling Date: | 11/12/2014 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 11/18/2014 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S4 - 1' (H403500-07)

| 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 | 11/17/2014 | ND | 1.83 | 91.4 | 2.00 | 8.21 | |
| Toluene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.76 | 88.2 | 2.00 | 6.70 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/17/2014 | ND | 1.75 | 87.4 | 2.00 | 6.66 | |
| Total Xylenes* | <0.150 | 0.150 | 11/17/2014 | ND | 5.27 | 87.9 | 6.00 | 6.78 | |
| Total BTEX | <0.300 | 0.300 | 11/17/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 98.3 | % 61-154 | | | | | | | |
| Chloride, SM4500Ci-B | mg, | /kg | Anałyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1920 | 16.0 | 11/14/2014 | ND | 400 | 100 | 400 | 0.00 | |
| 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 | 11/14/2014 | ND | 187 | 93.7 | 200 | 3.04 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/14/2014 | ND | 191 | 95.6 | 200 | 4.30 | |
| Surrogate: 1-Chlorooctane | 110 | % 47.2-15 | 7 | | | | | | |
| Surregulet i enterocetane | | | | | | | | | |

Sample ID: S4 - 2' (H403500-08)

| Chloride, SM4500CI-B | mg | /kg | Anałyze | d By: AP | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2520 | 16.0 | 11/14/2014 | ND | 400 | 100 | 400 | 0.00 | |

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Celeg Litterno -

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 11/13/2014 | Sampling Date: | 11/12/2014 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 11/18/2014 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S4 - 3' (H403500-09)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AP | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 272 | 16.0 | 11/14/2014 | ND | 400 | 100 | 400 | 0.00 | |

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Celeg Litherno -

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

 **
 Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500CI-B does not require samples be received at or below 6°C
 Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

| | - 122 | | | | | |
|---|--|---|---|---------------|----------|---|
| | | | CHAIN-OF | -CUS | TODY A | CHAIN-OF-CUSTODY AND ANALYSIS REQUEST |
| 101 East Marland, Hobbs, NM 88240 | 240 476 | | | | | |
| Company Name: COG Operating LLC | | BILL TO | | | A | ANALYSIS REQUEST |
| | | P.O. #: | | | | |
| Address: 2208 West Main | | Company: COG Operating LLC | ting LLC | | | |
| 1e | Zip 88210 | Attn: Robert McNeil | Veiil | | | |
| ē # | | Address: 600 W Illinois | inois | | | |
| | | City: Midland | | | | |
| ame: WBP Federal Com #1 | | State: TX Zip: 79701 | 3 | | | |
| n: | | Phone #: (432) 221-0388 | | | | |
| Sampler Name: Garrett Merket | | Fax #: | | | | |
| ٦ | MATRIX | PRESERV. SAMPLING | NG | | | |
| Lab I.D. Sample I.D. | (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE | OTHER : | BTEX | ТРН | Chloride | |
| J S1-1' | G X | | × | × | × | |
| S1-2' | G × | X 11/12/14 | × | × | × | |
| 3 S2-1' | ଜ × | X 11/12/14 | × | × | × | |
| 4 S2-2' | G | X 11/12/14 | × | × | × | |
| S3-1' | G | X 11/12/14 | × | × | × | |
| S 3-2' | ଜ × | X 11/12/14 | × | × | × | |
| J \$4-1' | G × | X 11/12/14 | × | × | × | |
| S4-2' | ର × | X 11/12/14 | | | × | |
| 9 84-3' | G | X 11/12/14 | | | × | |
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| Relingerished By: Aff if M i t Time: | Celved | I BV: | 3 | | | No Add'I Phone #: No Add'I Fax #: Concho.com Add'I Fax #: |
| Relinquished By: Critit Date: Date: 1-13-14 | Received | in the second | | JUINO NO NOTI | | |
| Delivered By: (Circle One) | Cool Intact | (Initials) | | | | |
| Sampler - UPS - Bus - Other: 5.20 | | 5 | | | | |

#57(† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



January 15, 2015

GARRETT MERKET

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: WBP FEDERAL COM #1

Enclosed are the results of analyses for samples received by the laboratory on 01/14/15 14:00.

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

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,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |
| | | | |

Sample ID: S1 - 1' (H500136-01)

| BTEX 8260B | mg | 'kg | Analyze | d By: MS | | | | | S-04 |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.200 | 0.200 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | 5.09 | 0.200 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 8.11 | 0.200 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 16.5 | 0.600 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | 29.8 | 1.20 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 108 | % 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 97.9 | % 83.7-12 | 1 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 155 | % 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 01/15/2015 | ND | 400 | 100 | 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 | 279 | 50.0 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 1320 | 50.0 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 125 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 115 | % 52.1-17 | 6 | | | | | | |

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S1 - 2' (H500136-02)

| BTEX 8260B | mg, | /kg | Analyze | d By: MS | | | | | S-04 |
|---------------------------------|-------------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Benzene* | <0.050 | 0.050 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | 0.962 | 0.050 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 1.53 | 0.050 | 01/15/2015 | ND | 2,00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 3.27 | 0.150 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | 5,79 | 0.300 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 102 | % 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | <i>99.3</i> | % 83.7-12 | 1 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 161 | % 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 01/15/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| GRO C6-C10 | 61,4 | 10.0 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 364 | 10.0 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 107 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 108 | % 52.1-17 | 6 | | | | | | |

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mite Singh



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S1 - 3' (H500136-03)

| BTEX 8260B | 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 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | <0.050 | 0.050 | 01/15/2015 | NÐ | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | <0.150 | 0.150 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | <0.300 | 0.300 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 100 | 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 98.1 | % 83.7-12 | 1 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 109 | 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 416 | 16.0 | 01/15/2015 | ND | 400 | 100 | 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 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 96.7 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 100 | 52.1-17 | 6 | | | | | | |

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S2 - 1' (H500136-04)

| BTEX 8260B | mg/ | kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 17.1 | 5.00 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | 175 | 5.00 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 100 | 5.00 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 194 | 15.0 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | 486 | 30,0 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 104 | 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 98.2 | % 83.7-12 | 1 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 115 | 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | 'kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 01/15/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 5960 | 100 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 14300 | 100 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 223 | 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 259 | 52.1-17 | 6 | | | | | | |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S2 - 2' (H500136-05)

| BTEX 8260B | mg/ | kg | Analyze | d By: MS | | | | | S-04 |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 0.340 | 0.050 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | 4.84 | 0.050 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 2.02 | 0.050 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 5,42 | 0.150 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | 12.6 | 0.300 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 102 9 | % 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 109 9 | 83.7-12 | 1 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 213 | 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | _ | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chioride | 240 | 16.0 | 01/15/2015 | ND | 400 | 100 | 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 | 52,3 | 10.0 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 214 | 10.0 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 100 9 | 47.2-15 | 7 | | | | - Tana | | |
| Surrogate: 1-Chlorooctadecane | 103 9 | 52.1-17 | 6 | | | | | | |

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| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S2 - 3' (H500136-06)

| BTEX 8260B | mg | 'kg | Anałyze | d By: MS | | | | | S-04 |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.500 | 0.500 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | 29.9 | 0.500 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 26,3 | 0.500 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 57.6 | 1.50 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | 114 | 3.00 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 102 | 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 103 | 83.7-12 | 1 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 165 | % 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-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 | 01/15/2015 | ND | 400 | 100 | 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 | 591 | 50.0 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 1860 | 50.0 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 139 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 123 | % 52.1-17 | 6 | | | | | | |

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S2 - 4' (H500136-07)

| BTEX 8260B | 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 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | 0.085 | 0.050 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 0.078 | 0.050 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 0.196 | 0.150 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | 0.362 | 0.300 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 104 | % 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 95.9 | % 83.7-12 | 1 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 122 | % 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 01/15/2015 | ND | 400 | 100 | 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 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 301 | 10.0 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 106 | % 47.2-15 | 7 | | · · · · · · | | · · · · · | | |
| Surrogate: 1-Chlorooctadecane | 107 | % 52.1-17 | 6 | | | | | | |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S3 - 1' (H500136-08)

| BTEX 8260B | mg/ | kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 32.6 | 10.0 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | 392 | 10.0 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 233 | 10.0 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 415 | 30.0 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7,82 | |
| Total BTEX | 1070 | 60.0 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 103 9 | 6 80.8-11 | 4 | | | | | | - |
| Surrogate: Toluene-d8 | 101 9 | 6 83.7-12 | 21 | | | | | | |
| Surrogale: 4-Bromofluorobenzene | 126 9 | 6 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 01/15/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 9220 | 100 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 20100 | 100 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 261 | 6 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 317 | 6 52.1-17 | 76 | | | | | | |

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| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S3 - 2' (H500136-09)

| BTEX 8260B | 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 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | 0.252 | 0.050 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 0.101 | 0.050 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 0,202 | 0.150 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Totai BTEX | 0.604 | 0.300 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 97.4 ⁻ | % 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 99.0 | 83.7-12 | 1 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 1179 | 6 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 256 | 16.0 | 01/15/2015 | ND | 400 | 100 | 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 | 15,0 | 10.0 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 68.4 | 10.0 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 108 | 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 113 | 52.1-17 | б | | | | | | |

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S3 - 3' (H500136-10)

| BTEX 8260B | 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 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | <0.050 | 0.050 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | <0.150 | 0.150 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | <0.300 | 0.300 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 97.0 | % 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 98.9 | % 83.7-12 | 1 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 117 9 | 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | 'kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1200 | 16.0 | 01/15/2015 | ND | 400 | 100 | 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 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 228 | 10.0 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 108 | 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 113 9 | 52.1-17 | <i></i> | | | | | | |

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S4 - 1' (H500136-11)

| BTEX 8260B | mg | kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 15.7 | 5.00 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | 230 | 5.00 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 127 | 5.00 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 275 | 15.0 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | 647 | 30.0 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 104 | 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 100 | 83.7-12 | 1 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 136 | 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 176 | 16.0 | 01/15/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg, | kg | Anałyze | d By: MS | | | | | S-06 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 6380 | 100 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 15300 | 100 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 215 | 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 257 | 52.1-17 | 6 | | | | | | |

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S4 - 2' (H500136-12)

| BTEX 8260B | mg, | /kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 7.86 | 1.00 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toiuene* | 69.5 | 1.00 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 14.9 | 1.00 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 86.0 | 3.00 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | 178 | 6.00 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 100 | % 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 104 | 83.7-12 | 1 | | | | | | |
| Surrogate 4-Bromofluorobenzene | 143 | % 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AP | | | | | _ |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 544 | 16.0 | 01/15/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg | /kg | Anałyze | d By: MS | | | | | S-06 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 1460 | 50.0 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 3740 | 50.0 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 168 | 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 134 | 52.1-17 | б | | | | | | |

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S4 - 3' (H500136-13)

| BTEX 8260B | mg/ | kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 2.69 | 1.00 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | 55.8 | 1.00 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 23.6 | 1.00 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 88.7 | 3.00 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | 171 | 6.00 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 1049 | 6 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 104 9 | 6 83.7-12 | I | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 153 9 | 6 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | 2 | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chioride | 512 | 16.0 | 01/15/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 1440 | 50.0 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 4160 | 50.0 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 169 9 | 6 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 135 9 | 6 52.1-17 | 6 | | | | | | |

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 01/14/2015 | Sampling Date: | 01/06/2015 |
|-------------------|--------------------|---------------------|---------------|
| Reported: | 01/15/2015 | Sampling Type: | Soil |
| Project Name: | WBP FEDERAL COM #1 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S4 - 4' (H500136-14)

| BTEX 8260B | 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 | 01/15/2015 | ND | 2.08 | 104 | 2.00 | 9.99 | |
| Toluene* | 33.3 | 1.00 | 01/15/2015 | ND | 2.00 | 99.8 | 2.00 | 8.51 | |
| Ethylbenzene* | 42.5 | 1.00 | 01/15/2015 | ND | 2.00 | 99.9 | 2.00 | 7.99 | |
| Total Xylenes* | 89.9 | 3.00 | 01/15/2015 | ND | 6.25 | 104 | 6.00 | 7.82 | |
| Total BTEX | 166 | 6.00 | 01/15/2015 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 103 | % 80.8-11 | 4 | | | | | | |
| Surrogate: Toluene-d8 | 99.9 | % 83.7-12 | I | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 150 | % 57.9-15 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AP | | | | | |
| Anaiyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 416 | 16.0 | 01/15/2015 | ND | 400 | 100 | 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 | 1550 | 50,0 | 01/15/2015 | ND | 212 | 106 | 200 | 1.46 | |
| DRO >C10-C28 | 4930 | 50.0 | 01/15/2015 | ND | 201 | 101 | 200 | 5.51 | |
| Surrogate: 1-Chlorooctane | 144 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 149 | 52.1-17 | б | | | | | | |

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

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. |
|------|---|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| 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 SM4500CI-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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| 101 East Marland, | 101 East Marland, Hobbs, NM 88240 | | | | | |
|--|---|---|---|--|-----------------|--|
| (575) 393-2326 | (575) 393-2326 FAX (575) 393-2476 | | | | | |
| Company Name: COG Operating LLC | LLC | | BILL TO | | | ANALYSIS REQUEST |
| Project Manager: Garrett Merket | | P.O. # | | 1000 | _ | - L. |
| Address: 2208 West Main | | Company: | COG Operating LLC | <u> </u> | | |
| City: Artesia | State: NM Zip 88 | 88210 Attn: | Robert McNeill | | | |
| Phone #: (575) 748-6940 | Fax #: | Address: | 600 W Illinois | | | |
| Project #: | Project Owner: | City: | Midland | | | |
| Project Name: WBP #1 | | State: TX | Zip: 79701 | | | |
| Project Location: | | * | (432) 221-0388 | | | |
| Sampler Name: Garrett Merket | | | | | | |
| FOR LAB USE ONLY | | MATRIX PRESERV. | V. SAMPLING | | | |
| Lab I.D. Sample I.D. | (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER | SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : | DATE | m BTEX | трн | Chloride |
| 1 S1-1' | | × | 1/6/14 | × | × | |
| 2 S1-2 | | × | 1/6/14 | × | × | × |
| 3 * S1-3 | G | × | 1/6/14 | × | × | × |
| A Real Property lies of | G | × | 1/6/14 | × | × | × |
| | G | × | 1/6/14 | × | × | × |
| | 9 | × | 1/6/14 | × | × | x |
| A 1824 | G | × | 1/6/14 | × | × | × |
| | G | × | 1/6/14 | × | × | × |
| S 3-2 | G | × | 1/6/14 | × | × | × |
| PLEASE NOTE: Liability and Dampas: Cardnath liability and client's each matyrea. Al dation including these for magigence and any other cause wh enables in no event shall cliential be liability to moview and any other cause whe | G G G G G G G G G G G G G G G G G G G | X X X seed in contract or tort, shall be limited to in writing and received by Cardinal v | 1/6/14 If the amount paid by the client for the within 30 days after completion of the up | the client for the rupletion of the applicable | × | |
| Relinquished By: | as of services hereunder by Cardinal regarders of wheth Date: Time: Date: Received By: Date: Received By: | d whether such claims is based upon my of the above stated By: JU JUUNADA By: | hn above tätted reasons or otherwase Phone Result: REMARKS: atrujillo@c | Phone Result: Fax Result: REMARKS: QC atrujillo@conch | D Yes Arrasc | ann a' dhimitea Phone Result: □ Yes □ No Add'I Phone #: Fax Result: □ Yes □ No Add'I Fax #: REMARKS: gcarrasco@concho.com atrujillo@concho.com; gmerket@concho.com CVSt |
| Delivered Bre (Circle Cort) | Time: | | # Se | 4 | 3 | limb possion |
| Sampler - UPS - Bus - Other: | H.LOC Cool | Sample Condition CHECK Cool Intact | CH BY | nes | estrem | 00 TT #500046 |

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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | (575) 393-2326 FAX (575) 393-2476 | 2476 | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----------------------------------|------------------------------|------------------------------|--------------------------------|------------------------------|---------|--------------------|----------------------|---------|--|---|---------------|-----|---|---|---------------|-----|----------|---|---------|--------------|---|---|
| Company Name: | COG Operating LLC | | | | | | | | | \odot | 01 11/13 | | | | | ANALYSIS | ξĮ | Sis | 꼾 | 2 | REQUEST | | | |
| Project Manager: | Garrett Merket | | | | | | | P.O. | * | | | | Τ | | | | | _ | | | - | | - | |
| Address: 2208 V | 2208 West Main | | | | | | | Ê | Company: | | COG Operating LLC | ating LLC | | | | | | | | | | | | |
| City: Artesia | State: NM | | Nip | | 88210 | 5 | - | Attn: | | | Robert McNeill | Neill | | | | | | | | | | | | |
| Phone #: | (575) 748-6940 Fax #: | | | | | | - | dd | Address: | | 600 W Illinois | linois | | | | | | | | | | | | |
| Project #: | Project Owner: | 1.16 | | | | | _ | City: | | | Midland | _ | | | | | | | | | | | | |
| Project Name: Wi | WBP #1 | | | | | | 10 | State: | ∺ ₹ | | Zip: 79701 | 3 | | | | | | | | | | | | |
| Project Location: | | | | | | | _ | hor | Phone #: | | (432) 221-0388 | | | | | - | | | | | | _ | | |
| Sampler Name: | Garrett Merket | | | | | | - | Fax # | π | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | - | | | Ň | MATRIX | ŀ | | PRESERV. | RV | SAMPLING | NG | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP | # CONTAINERS | GROUNDWATER | SOIL | OIL | SLUDGE | OTHER : ACID/BASE: | ICE / COOL | OTHER | DATE | TIME | ВТЕХ | трн | Chloride | | | | | | | | | |
| 11 S4-1 | | G | | | × | | - | - | | | 1/6/14 | | × | × | × | | | - | | | + | \downarrow | + | T |
| 12 \$4-2 | -N2 | G | | | × | | | - | × | | 1/6/14 | | × | × | × | | | - | _ | | | | | |
| 13 \$ \$4-3 | μ | G | | | × | | | | × | | 1/6/14 | | × | × | × | | - | | | | | _ | | |
| 14 * 84-4 | 4 | ດ | | | × | | | | × | | 1/6/14 | | × | × | × | | | | | | | | | |
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| Reinquished By: | May Date: 1 | RAN | Received By: Received By: | g g | · ۲ | () | thendly | F | E | G | | Phone Result: Fax Result: REMARKS: <u>Qca</u> atrujillo@concho | pinch 18 | | □ Yes □ No Add'I Phone # □ Yes □ No Add'I Fax #: Irrasco@concho.com .com; gmerket@concho.com | Add'l Phone #: Add'l Fax #: Oconcho com | Phor Fax a | | | | | | | |
| Delivered By: (Circle One) | lircle One) | | | Sa | Sample Condition | Conc | lition | | SH | CK I | CHECKED BY: | | | | | | | | | | | | | |

C

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY:



April 10, 2015

GARRETT MERKET

P. O. BOX 1630

ARTESIA, NM 88210

RE: WEST BRUSHY 5 FEDERAL SWD #5

Enclosed are the results of analyses for samples received by the laboratory on 04/02/15 12:45.

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

Cardinal Laboratories is 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 04/02/2015 | Sampling Date: | 04/01/2015 |
|-------------------|------------------------------|---------------------|---------------|
| Reported: | 04/10/2015 | Sampling Type: | Soil |
| Project Name: | WEST BRUSHY 5 FEDERAL SWD #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S3-4' (H500889-01)

| Chloride, SM4500Ci-B | mg, | /kg | Analyze | d By: AP | | | | | |
|----------------------|--------|--------------------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | t Reporting Limit Analyz | | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 400 | 16.0 | 04/07/2015 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: S4-5' (H500889-02)

| BTEX 8021B | mg, | /kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Vaiue QC | RPD | Qualifier |
| Benzene* | 0.089 | 0.050 | 04/08/2015 | ND | 2.09 | 105 | 2.00 | 2.49 | |
| Toluene* | <0.050 | 0.050 | 04/08/2015 | ND | 1.92 | 96.2 | 2.00 | 2.57 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/08/2015 | ND | 1.90 | 95.2 | 2.00 | 3.58 | |
| Total Xylenes* | <0.150 | 0.150 | 04/08/2015 | 3/2015 ND 5 | | 99.0 | 6.00 | 3.41 | |
| Total BTEX | <0.300 | 0.300 | 04/08/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 112 % 61-154 | | 4 | | | | | | |
| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/07/2015 | ND | 196 | 98.2 | 200 | 3.87 | |
| DRO >C10-C28 | 136 | 10.0 | 04/07/2015 | ND | 217 | 109 | 200 | 5.33 | |
| Surrogate: 1-Chlorooctane | 107 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 114 | % 52.1-17 | 76 | | | | | | |

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Celleg Di Kerne-

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

| ND | Analyte NOT DETECTED at or above the reporting limit |
|-----|---|
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500CI-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celeg Di Keine-

Celey D. Keene, Lab Director/Quality Manager

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