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REMEDIATION SUMMARY AND SITE CLOSURE STRATEGY

BOPCO, LP
G.H. Cobb Federal #1
Eddy County, New Mexico
UNIT LTR "M" (SW ¼ SW ¼), Section 23, Township 20 South, Range 31 East
Latitude 32° 33' 11.412" North, Longitude 103° 50' 44.304"
NMOCD Reference # 2RP-369

Prepared For:

BOPCO, LP 522 W. Mermod Suite 704 Carlsbad, New Mexico 88220 DEC 28 2010

NMOCD ARTESIA

Prepared By:

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December 2010

Joel Lowry Project Manager

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1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Site Closure Strategy* for the release site known as G.H. Cobb Federal #1. The legal description of the release site is Unit Letter "M" (SW ¼ SW ¼), Section 23, Township 20 South, Range 31 East, in Eddy County, New Mexico. The property affected by the release is owned and administered by the United States Department of the Interior, Bureau of Land Management (BLM). The release site GPS coordinates are 32° 33' 11.412" North and 103° 50' 44.304" West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site and Sample Location Map.

On December 07, 2009, BOPCO submitted notification to the New Mexico Oil Conservation Division (NMOCD) and the BLM, of BOPCO's intention to conduct closure activities at the permanent pit located at the G.H. Cobb Federal #1 well site. The pit was to be excavated to approximately ten (10) feet below ground surface (bgs). All excavated soil was transported to Controlled Recovery Incorporated (CRI) (NM Permit R-9166). The final dimensions of the excavation were approximately one hundred fifty-five (155) feet in width and one-hundred sixty one (161) feet in length and approximately thirty-five (35) feet in depth. The soil beneath the permanent pit was analyzed to determine if a release had occurred. On July 1, 2009, BOPCO submitted a Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit of Closure Plan Application (Form C-144) to the NMOCD for the permanent pit closure. On December 7, 2009, BOPCO submitted a Release Notification and Corrective Action (Form C-141) to the NMOCD. The Forms C-144 and C-141 are provided as Appendix D.

On November 13, 2009, BOPCO requested Basin assume remediation oversight at the G.H. Cobb Federal #1 site.

On November 20, 2009, BOPCO and Basin representatives met with NMOCD Artesia District Office representatives to discuss remediation activities to be conducted at the site. Due to safety issues associated with the depth of the excavation, it was decided a six (6) inch PVC conduit would be cemented in the floor of the excavation and extended to approximately fifteen (15) feet bgs and the excavation would be backfilled around the conduit. This would allow drilling activities to be conducted in the floor of the excavation.

2.0 NMOCD SITE CLASSIFICATION

According to data obtained from the New Mexico Office of the State Engineer (NMOSE), no water wells are registered in Section 23, Township 20 S, Range 31 E. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately seventy-five (75) bgs. BOPCO installed six (6) monitor wells which indicated the average depth to groundwater is approximately seventy (70) feet bgs at the release site. Analytical results from soil samples collected during the installation of monitor well MW-2 indicated chloride concentrations exceeded NMOCD regulatory standards within fifty (50) feet of groundwater. The depth of chloride impact results in a score of twenty (20) points being assigned to the site based on the NMOCD depth to groundwater criteria.

A water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

There are no surface water bodies located within 1,000 feet of the site. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of the criteria.

The NMOCD guidelines indicate the G.H. Cobb Federal #1 release site has an initial ranking score of twenty (20). Based on this score, the soil remediation levels for a site with a ranking score of twenty (20) points are as follows:

- Benzene 10 mg/kg (ppm)
- BTEX -50 mg/kg (ppm)
- TPH -100 mg/kg (ppm)

NMOCD chloride clean-up level concentrations are site specific and are set by the NMOCD.

3.0 DISTRIBUTION OF CONTAMINANTS IN THE UNSATURATED ZONE

3.1 Summary of Soil Analytical Results

On December 30, 2009, through January 15, 2010, thirteen (13) soil borings (SB-1, SB-2, SB-3, SB-4, SB-5, SB-6, SB-7, SB-8, SB-9, SB-10, SB-11, SB-12 and SB-13) were advanced to investigate the vertical and horizontal extent of impact at the site. Soil boring logs are provided as Appendix A. Soil samples were collected at five (5) foot drilling intervals and field screened using a Photo-Ionization Detector (PID) and chloride field screening kit. Selected soil samples were submitted to the laboratory for determination of concentrations of benzene, toluene, ethylbenzene and total xylene (BTEX), total petroleum hydrocarbons (TPH) and chlorides using EPA Method SW 846-8021B, EPA Method SW 848-8015M and EPA Method 4500 Cl-B, respectively. A summary of Concentrations of TPH, BTEX and Chlorides in Soil is provided as Table 1. Selected soil samples were also analyzed for concentrations of potassium, arsenic and magnesium utilizing SW846 6010B. A summary of Concentrations of Potassium, Arsenic and Magnesium in Soil is provided as Table 4. Laboratory analytical reports are provided as Appendix B. A Stratigraphic Cross Section is provided as Figure 3.

Soil Boring SB-1 was advanced approximately seventy (70) feet to the south of the excavation. The soil boring was advanced to a total depth of approximately ninety (90) feet bgs. Soil samples collected at 5, 15, 25, 35, 45, 55, 60, 65, 70, 75, 80, 85, and 90 feet bgs were submitted to the laboratory for analysis of chloride and TPH concentrations. Laboratory analytical results indicated chloride concentrations ranged from 64 mg/kg in the soil sample collected at 55 feet bgs to 8,200 mg/kg for the soil sample collected at 65 feet bgs. Laboratory analytical results indicated TPH concentrations were less than the appropriate laboratory method detection limit (MDL) for each of the soil samples submitted, with the exception of the soil sample collected at 25 feet bgs, which exhibited a concentration of 40.3 mg/kg. Soil boring SB-1 was converted to a two (2) inch monitor well (MW-1).

Soil Boring SB-2 was advanced through the conduit in the floor of the excavation at approximately thirty (30) feet bgs. The soil boring was advanced to a total depth of approximately ninety (90) feet bgs. Soil samples collected at 34, 44, 54, 64, 74, 79, 84 and 89 feet bgs were submitted to the laboratory for analysis of chloride concentrations. The soil sample collected at 34 feet bgs was also analyzed for BTEX and TPH constituent concentrations. Laboratory analytical results indicated chloride concentrations ranged from 1,300 mg/kg in the soil sample collected at 89 feet bgs to 15,400 mg/kg in the soil sample collected at 64 feet bgs. The soil sample collected at 34 feet bgs exhibited benzene and BTEX concentrations less than the appropriate laboratory MDL. The TPH constituent concentration was 15.6 mg/kg. Soil boring SB-2 was converted to a two (2) inch monitor well (MW-2).

Soil boring SB-3 was advanced inside the excavation on the north side at approximately fifteen (15) feet bgs. The soil boring was advanced to a total depth of approximately seventy-five (75) feet bgs. Soil samples collected at 20, 30, 40, 50, 55, 60, 70, and 75 feet bgs were submitted to the laboratory for analysis of chloride concentrations. The soil sample collected at 20 feet bgs was also analyzed for BTEX and TPH constituent concentrations. Laboratory analytical results indicated chloride concentrations ranged from 384 mg/kg in the soil sample collected at 30 feet bgs to 12,000 mg/kg in the soil sample collected at 55 feet bgs. The soil sample collected at 20 feet bgs exhibited benzene and BTEX concentrations less than the appropriate laboratory MDL. The TPH constituent concentration was 15.6 mg/kg.

Soil boring SB-4 was advanced approximately one hundred ten (110) feet to the west of the excavation. The soil boring was advanced to a total depth of approximately seventy-five (75) feet bgs. Soil samples collected at 5, 15, 25, 30, 35, 45, 55, 60, 65, 70 and 75 feet bgs were submitted to the laboratory for analysis of chloride concentrations. The soil sample collected at 5 feet bgs was also analyzed for BTEX and TPH constituent concentrations. Laboratory analytical results indicated chloride concentrations ranged from 128 mg/kg in the soil sample collected at 5 feet bgs to 14,400 mg/kg in the soil sample collected at 70 feet bgs. The soil sample collected at 5 feet bgs exhibited benzene and BTEX concentrations less than the appropriate laboratory MDL. The TPH constituent concentration was 16.6 mg/kg.

Soil boring SB-5 was advanced approximately twenty-five (25) feet to the east of the excavation. The soil boring was advanced to a total depth of approximately eighty (80) feet bgs. Soil samples collected at 5, 15, 25, 30, 35, 45, 55, 60, 65, 70, 75 and 80 feet bgs were submitted to the laboratory for analysis of chloride concentrations. The soil sample collected at 5 feet bgs was also analyzed for BTEX and TPH constituent concentrations. The laboratory analytical results indicated chloride concentrations ranged from 560 mg/kg in the soil sample collected at 15 feet bgs to 18,600 mg/kg in the soil sample collected at 80 feet bgs. The soil sample collected at 5 feet bgs exhibited benzene and BTEX concentrations less than the appropriate laboratory MDL. The TPH constituent concentration was 17.2 mg/kg.

Soil boring SB-6 was advanced approximately fifty (50) feet north of the excavation. The soil boring was advanced to a total depth of approximately seventy (70) feet bgs. Soil samples collected at 5, 15, 25, 30, 35, 45, 55, 60, 65, and 70 feet bgs were submitted to the laboratory for analysis of chloride concentrations. The soil sample collected at 5 feet bgs was also analyzed for BTEX and TPH constituent concentrations. Laboratory analytical results indicated chloride concentrations ranged from 304 mg/kg in the soil sample collected at 15 feet bgs to 13,400 mg/kg in the soil sample collected at 65 feet bgs. The soil sample collected at 5 feet bgs

exhibited benzene, BTEX and TPH constituent concentrations less than the appropriate laboratory MDL.

Soil boring SB-7 was advanced approximately one hundred forty-five (145) feet to the west of the excavation. The soil boring was advanced to a total depth of approximately seventy-five (75) feet bgs. Soil samples collected at 5, 15, 25, 30, 35, 45, 55, 60, 65, 70 and 75 feet bgs were submitted to the laboratory for analysis of chloride concentrations. The soil sample collected at 5 feet bgs was also analyzed for BTEX and TPH constituent concentrations. Laboratory analytical results indicated chloride concentrations ranged from 32 mg/kg in the soil sample collected at 5 feet bgs to 12,400 mg/kg in the soil sample collected at 75 feet bgs. The soil sample collected at 5 feet bgs exhibited benzene, BTEX and TPH constituent concentrations less than the appropriate laboratory MDL.

Soil boring SB-8 was advanced approximately three hundred eighty (380) feet to the south of the excavation. The soil boring was advanced to a total depth of approximately one hundred five (105) feet bgs. Soil samples collected at 5, 15, 25, 35, 45, 55, 65, 75, 80 and 85 feet bgs were submitted to the laboratory for analysis of chloride concentrations. The soil sample collected at 5 feet bgs was also analyzed for BTEX and TPH constituent concentrations. Laboratory analytical results indicated chloride concentrations ranged from 32 mg/kg in the soil samples collected at 55, 65, and 75 feet bgs to 560 mg/kg in the soil sample collected at 5 feet bgs. The soil sample collected at 5 feet bgs exhibited benzene, BTEX and TPH constituent concentrations less than the appropriate laboratory MDL. Soil boring SB-8 was converted to a two (2) inch monitor well (MW-3).

Soil boring SB-9 was advanced approximately twenty-five (25) feet to the south of the excavation. The soil boring was advanced to a total depth of approximately twenty (20) feet bgs. Soil samples collected at 5, 15, and 20 feet bgs were submitted to the laboratory for analysis of chloride concentrations. The soil sample collected at 5 feet bgs was also analyzed for BTEX and TPH constituent concentrations. Laboratory analytical results indicated chloride concentrations ranged from 144 mg/kg in the soil samples collected at 15 feet bgs to 1,140 mg/kg in the soil sample collected at 5 feet bgs exhibited benzene, BTEX and TPH constituent concentrations less than the appropriate laboratory MDL.

Soil boring SB-10 was advanced approximately ten (10) feet to the east of the excavation. The soil boring was advanced to a total depth of approximately twenty (20) feet bgs. Soil samples collected at 5, 15, and 20 feet bgs were submitted to the laboratory for analysis of chloride concentrations. The soil sample collected at 5 feet bgs was also analyzed for BTEX and TPH constituent concentrations. Laboratory analytical results indicated chloride concentrations ranged from 224 mg/kg in the soil samples collected at 15 feet bgs to 1,360 mg/kg in the soil sample collected at 5 feet bgs. The soil sample collected at 5 feet bgs exhibited benzene and BTEX concentrations less than the appropriate laboratory MDL. The TPH constituent concentration was 42.7 mg/kg.

Soil boring SB-11 was advanced approximately two hundred fifty (250) feet to the west of the excavation. The soil boring was advanced to a total depth of approximately ninety (90) feet bgs. Soil samples collected at 5, 15, 25, 35, 45, 55, 65, 70, 75, and 80 feet bgs were submitted to the laboratory for analysis of chloride concentrations. The soil sample collected at 5 feet bgs was also analyzed for BTEX and TPH constituent concentrations. Laboratory analytical results

indicated chloride concentrations ranged from 16 mg/kg in the soil sample collected at 5 feet bgs to 7,000 mg/kg in the soil sample collected at 70 feet bgs. The soil sample collected at 5 feet bgs exhibited benzene, BTEX and TPH constituent concentrations less than the appropriate laboratory MDL. Soil boring SB-11 was converted to a two (2) inch monitor well (MW-4).

Soil boring SB-12 was advanced approximately two hundred eighty (280) feet to the north of the excavation. The soil boring was advanced to a total depth of approximately ninety (90) feet bgs. Soil samples collected at 5, 15, 25, 35, 45, 55, 65, 75, 80, 85, and 90 feet bgs were submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 48 mg/kg in the soil samples collected at 5 and 35 feet bgs to 5,680 mg/kg in the soil sample collected at 80 feet bgs. Soil boring SB-12 was converted to a two (2) inch monitor well (MW-5).

Soil boring SB-13 was advanced approximately sixty (60) feet to the west of the excavation. The soil boring was advanced to a total depth of approximately ninety-five (95) feet bgs. Soil samples collected at 5, 15, 25, 35, 45, 55, 65, 75, 85, and 95 feet bgs were submitted to the laboratory for analysis of chloride concentrations. The soil sample collected at 5 feet bgs was also analyzed for BTEX and TPH constituent concentrations. Laboratory analytical results indicated chloride concentrations ranged from 32 mg/kg in the soil samples collected at 55, 65, and 95 feet bgs to 144 mg/kg in the soil sample collected at 70 feet bgs. The soil sample collected at 5 feet bgs exhibited benzene, BTEX and TPH constituent concentrations less than the appropriate laboratory MDL. Soil boring SB-13 was converted to a two (2) inch monitor well (MW-6).

On January 8, 2010, nine (9) soil samples (Northwest S/W @ 10', Northeast S/W @ 10', West S/W @ 10', East S/W @ 10', South S/W @ 10', Northwest Corner @ 10', Northeast Corner @ 10', Southwest Corner @ 10' and Southeast Corner @ 10') were collected from the sidewalls of the excavation and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. Chloride concentrations were 256 mg/kg for soil sample Northwest S/W @ 10', 1,220 mg/kg for soil sample Northeast S/W @ 10', 4,600 mg/kg for soil sample West S/W @ 10', 9,900 mg/kg for soil sample East S/W @ 10', 8,500 mg/kg for soil sample South S/W @ 10', 192 mg/kg for soil sample Northwest Corner @ 10', 3,680 mg/kg for soil sample Northeast Corner @ 10', 896 mg/kg for soil sample Southwest Corner @ 10' and 6,900 mg/kg for soil sample Southeast Corner @ 10'.

Analytical results from soil borings advanced to the south and the east of the excavation (SB-9 and SB-10) indicate chloride concentrations within the soil column are less than 250 mg/kg at 20 feet bgs. The excavation was advanced in the areas represented by soil samples Northeast S/W @ 10', West S/W @ 10' and Southeast Corner @ 10'. Further excavation to the south and east was prohibited due to the proximity of a widely used oilfield access road and active oilfield production facilities.

On January 18, 2010, Basin resumed excavation activities on the west sidewall and the northwest and southeast corners of the excavation. Excavated soil was placed in the excavation and leveled.

On February 11, 2010, three (3) soil samples (West S/W A @ 10', Southeast Corner A @ 10' and Northwest Corner A @ 10') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 112 mg/kg in soil sample West S/W A @ 10' to 496 mg/kg in soil sample Southwest Corner A @ 10'. Review of the analytical results indicated chloride concentrations were less than the NMOCD-approved level of 1,000 mg/kg in all the submitted soil samples.

3.2 Soil Closure Proposal

Based on analytical results of the soil samples collected during excavation activities and advancement of the soil borings, BOPCO proposes to conduct a risk-based closure at the site. Due to the depth of impact below and adjacent to the release point, excavation of the impacted soil would be cost-prohibitive and impractical given proximity to active oilfield production facilities and a widely used oilfield access road.

With NMOCD approval, BOPCO proposes to install a 20 mil polyurethane liner at approximately ten (10) to twelve (12) feet bgs in the existing excavation. Approximately one (1) foot of non-impacted cushion sand will be installed above and below the liner to protect the liner from damage during installation and backfilling activities. The excavation will be backfilled with locally purchased, non-impacted soil and compacted in twelve (12) inch lifts. Following backfilling activities, the site will be contoured to fit the surrounding topography and seeded with a BLM-approved seed mixture.

4.0 DISTRIBUTION OF CONTAMINANTS IN THE SATURATED ZONE

4.1 Site Characteristics and Background Information

A search of the New Mexico Office of the State Engineer's database indicates that there are no registered water wells in any of the sections adjacent to the G.H. Cobb Federal #1. According to information obtained from the New Mexico Environment Department — Drinking Water Bureau, none of the six (6) active public water systems in the area obtain their drinking water locally. The Intrepid Potash North mining facility, located 1.5 miles to the northeast of the site, obtains its drinking water from wells located approximately forty (40) miles east of the site in Buckeye, New Mexico. B&B Half Way Bar and Grill, a nearby business, trucks in its drinking water from Carlsbad, New Mexico. An Aerial Photograph is provided as Figure 5.

G.H. Cobb Federal #1 is located within the Permian Rustler Formation in an area that could be described as "karst". The remediation site is located in close proximity to three active potash mining facilities, two NMOCD permitted landfills, a nuclear waste repository and several naturally occurring salt lakes. An Environmental Impact Statement (EIS) obtained from Intrepid Potash, dated March 2010, proposes the use of groundwater extracted from the Rustler Formation to conduct in-situ solution mining within inactive mine workings approximately five (5) miles to the west of the site. Intrepid has indicated that brine water extracted from certain areas within the Rustler Formation is of particular value for in-situ solution mining, as it forms an advantageous injectate solution and is not suitable for human consumption or use in agriculture.

Brine water aquifers are not uncommon in the region. In a publication released by the New Mexico Geological Society in 2006, Caves and Karst of Southeastern New Mexico, Carol Hill describes brine and fresh water intermingling in an area south of G.H. Cobb Federal #1. Laboratory analytical results from groundwater extracted from monitor wells installed in the vicinity of the Waste Isolation Pilot Plant (WIPP) indicate chloride concentrations range from 2,800 to 29,000 mg/L within a one square mile radius (Hill 2006). Hydrology within the area is further complicated due to lateral and horizontal variations in lithologies, the potential for subterranean saline springs, and the occurrence of fractured and brecciated strata, which can create a complex system of fresh and saline water paths. Further investigation is needed to characterize the area's hydrology and determine if there are any additional groundwater inputs that should be considered at the G.H. Cobb Federal #1 remediation site.

On April 9, 2010, Basin conducted a drawdown test on monitor well MW-4. Data collected from the drawdown test indicated that monitor well MW-4 exhibited a recharge rate of .04 gal/Min after being pumped dry. Based on data collected from the drawdown test and field observations made during quarterly sampling events, BOPCO believes that monitor wells MW-1, MW-4, MW-5 and MW-6 do not exhibit sufficient recharge rates to make groundwater recovery viable at this time.

On April 14, 2010, Basin conducted a similar drawdown test on monitor well MW-2. Data collected from the drawdown test indicated that monitor well MW-2 exhibited a recharge rate sufficient to conduct limited groundwater recovery.

4.2 Summary of Quarterly Groundwater Monitoring and Sampling Results

Groundwater was observed at depths ranging from 58 to 102 feet bgs in the on-site monitor wells. Groundwater elevation data collected during the September 19, 2010 sampling event indicated an inferred groundwater gradient of generally 0.007 feet/foot to the northwest. Locations of the groundwater monitor wells are depicted on Figure 2. Groundwater Elevation Data is provided as Table 2. Inferred Groundwater Gradient Maps are provided as Figures 4a and 4b.

The six (6) groundwater monitor wells (MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6) were gauged, purged and sampled for chloride concentrations during the 1st, 2nd, and 3rd quarters of 2010. Quarterly groundwater samples were collected from the monitor wells and delivered to Cardinal Laboratories of Hobbs, New Mexico, for determination of chloride concentrations utilizing EPA Method 4500 Cl-B. Groundwater samples were analyzed for total dissolved solids (TDS) using EPA Method 160.1 during the 1st quarter of 2010. Pursuant to an NMOCD request, additional water samples were collected from monitor well MW-2 and an on-site produced water storage tank on March 24, 2010, and analyzed for constituent concentrations of BTEX and heavy metals. BTEX and heavy metal concentrations from the March 24th sampling event were analyzed by Xenco Laboratories of Odessa, Texas, utilizing EPA Method 8021B SW8021BM for BTEX and TCLP Metals by SW846 6010B SW6010B and TCLP Mercury by SW7470A SW7470A for heavy metals. A summary of Concentrations of Benzene, BTEX, Chlorides, Metals and TDS in Groundwater is presented in Table 3.

Monitor well MW-1 was sampled during the 1st, 2nd, and 3rd quarters of 2010. Laboratory analytical results indicated chloride concentrations ranged from 41,000 mg/L in the 1st quarterly

sampling event to 46,000 mg/L during the 2nd quarterly sampling event. Laboratory analytical results indicated the concentration of TDS was 63,200 mg/L in the 1st quarter of 2010.

Monitor well MW-2 was sampled on during the 1st, 2nd, and 3rd quarters of 2010. Laboratory analytical results indicated chloride concentrations ranged from 41,000 mg/L in the 1st and 2nd quarterly sampling events to 140,000 mg/L in the 2nd quarterly sampling event. Laboratory analytical results indicated the concentration of TDS was 215,000 mg/L during the 1st quarter of 2010.

Monitor well MW-3 was sampled during the 1st, 2nd, and 3rd quarters of 2010. Laboratory analytical results indicated chloride concentrations ranged from 124 mg/L during the 1" quarterly sampling event to 220 mg/L during the 2nd quarterly sampling event. Laboratory analytical results indicated the concentration of TDS was 773 mg/L in the 1st quarter of 2010.

Monitor well MW-4 was sampled during the 1st, 2nd, and 3rd quarters of 2010. Laboratory analytical results indicated chloride concentrations ranged from 48,000 mg/L during the 3rd quarterly sampling event to 51,000 mg/L in the 1st quarterly sampling event. Laboratory analytical results indicated the concentration of TDS was 72,500 mg/L in the 1st quarter of 2010.

Monitor well MW-5 was sampled during the 1st, 2nd, and 3rd quarters of 2010. Laboratory analytical results indicated chloride concentrations ranged from 70,000 mg/L during the 2nd quarterly sampling event to 83,000 mg/L in the 2nd quarterly sampling event. Laboratory analytical results indicated the concentration of TDS was 118,000 mg/L in the 1st quarter of 2010.

Monitor well MW-6 was sampled during the 1st, 2nd, and 3rd quarters of 2010. Laboratory analytical results indicated chloride concentrations ranged from 424 mg/L in the 1st quarterly sampling event to 500 mg/L during the 2nd quarterly sampling event. Laboratory analytical results indicated the concentration of TDS was 1,440 mg/L in the 1st quarter of 2010.

Currently, there are six (6) groundwater monitor wells (MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6) on-site. Analytical results from the three (3) quarterly groundwater sampling events indicated chloride and TDS concentrations are less than the NMOCD regulatory guidelines in one (1) of the on-site monitor wells (MW-3). Analytical results indicate chloride and TDS concentrations in monitor wells MW-1, MW-2, MW-4, MW-5, and MW-6 exceed NMOCD regulatory guidelines.

4.3 Groundwater Remediation Strategy

Based on insufficient recharge rates exhibited in monitor wells MW-1, MW-4, MW-5, and MW-6, BOPCO requests NMOCD approval to conduct limited groundwater recovery in the area of monitor well MW-2. Weekly recovery will be conducted utilizing a submersible pump and a trailer-mounted polystyrene tank. Impacted groundwater will be transported to an NMOCD-approved disposal facility. Field observations made during recovery activities and data collected during quarterly gauging and sampling events will be analyzed to further characterize the remediation site. Results from quarterly groundwater monitoring will be compiled in an *Annual Monitoring Report and* submitted to the NMOCD by April 1st of each year.

5.0 REPORTING

On approval and completion of the proposed closure activities, BOPCO will submit a Remediation Summary and Site Closure Request for NMOCD and BLM approval.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Site Closure Strategy* to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC, has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Service Technologies, LLC, has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Basin Environmental Service Technologies, LLC, has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Service Technologies, LLC, also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of BOPCO, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express written consent of Basin Environmental Service Technologies, LLC, and/or BOPCO, LP.

7.0 **DISTRIBUTION:**

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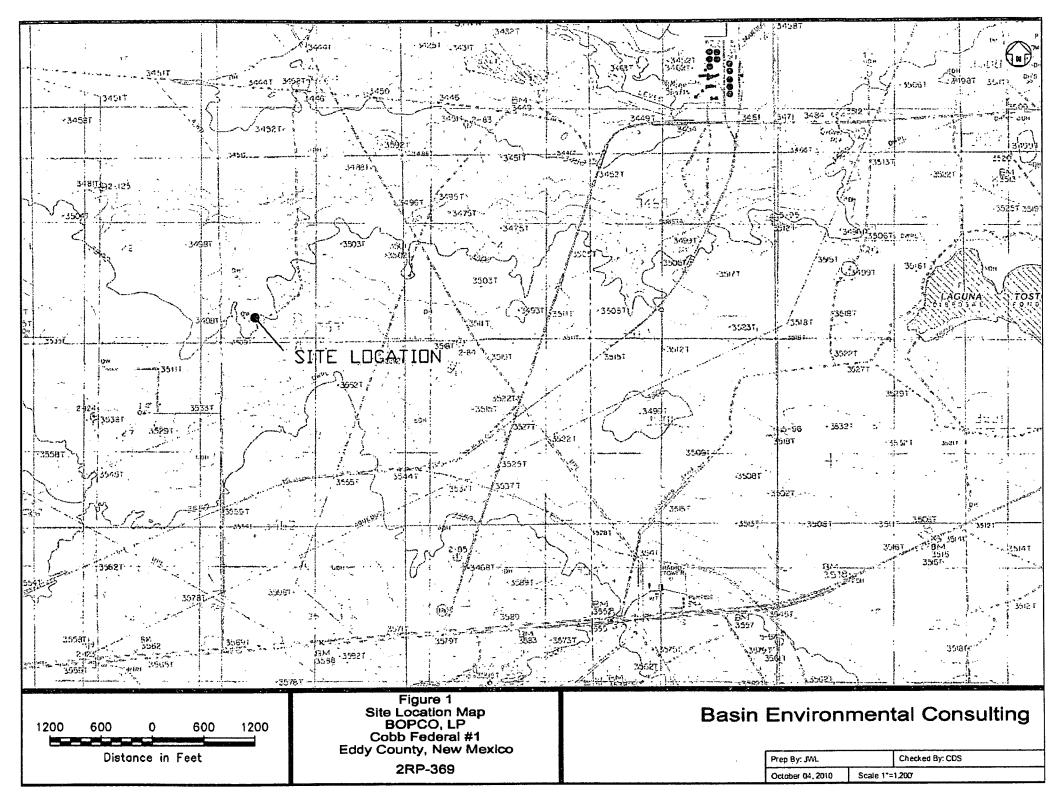
Basin Environmental Service Technologies, LLC

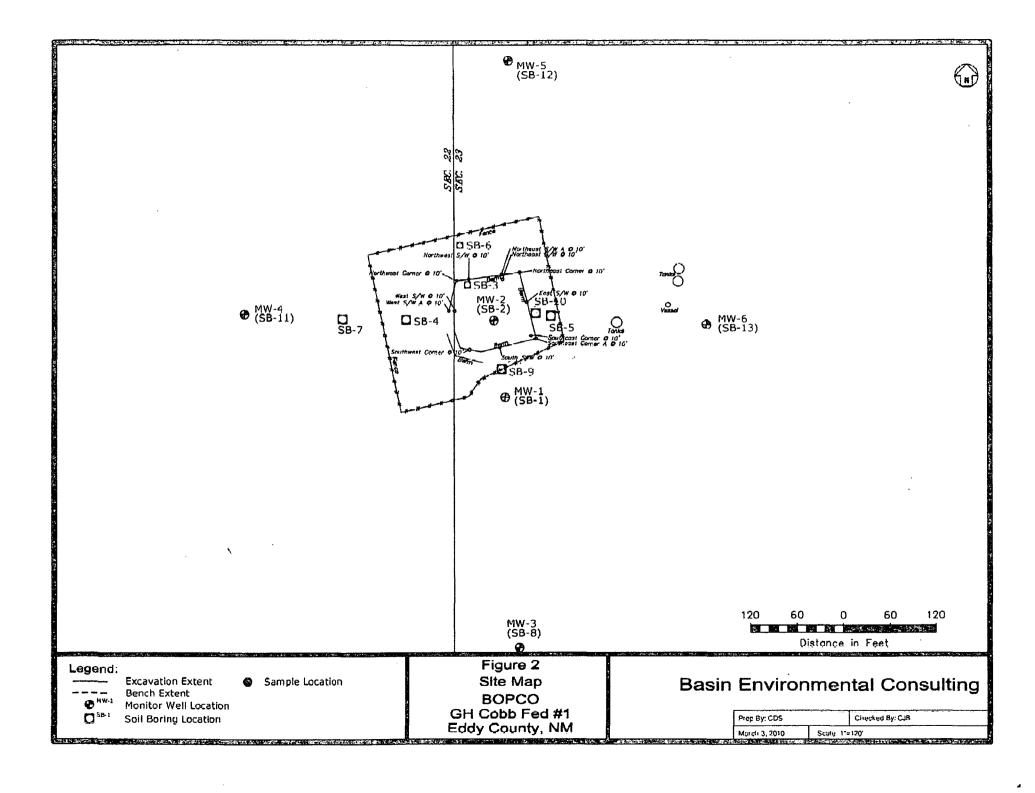
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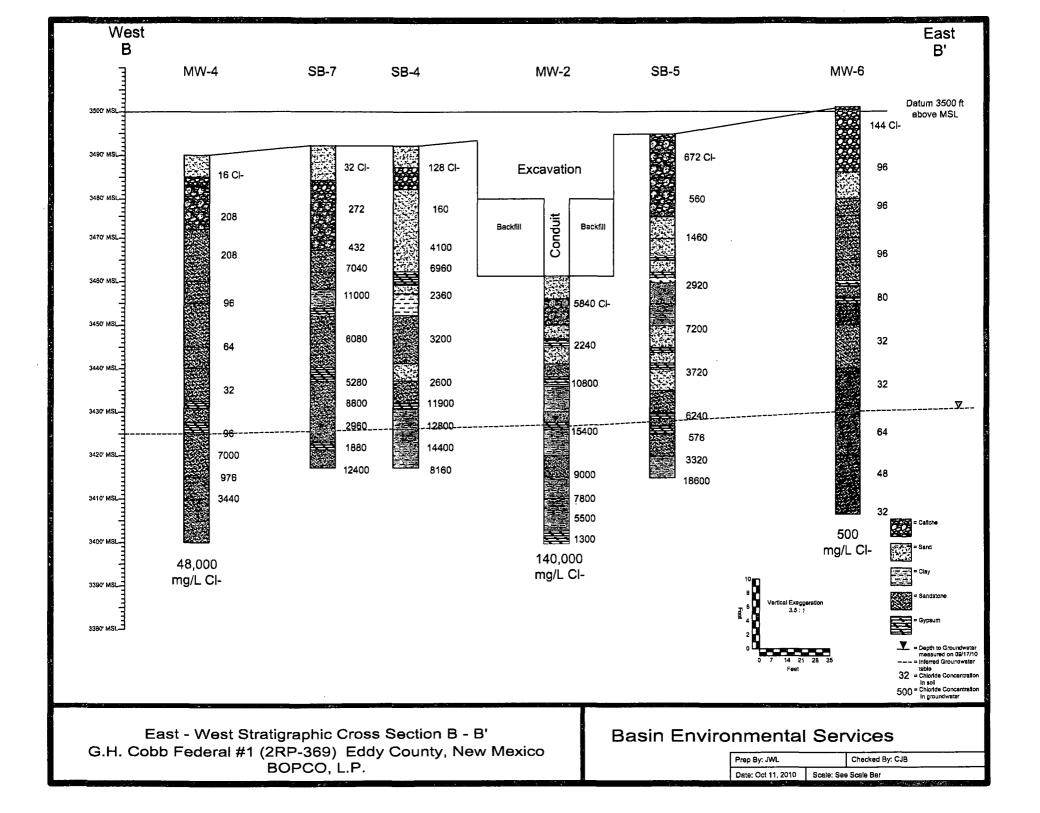
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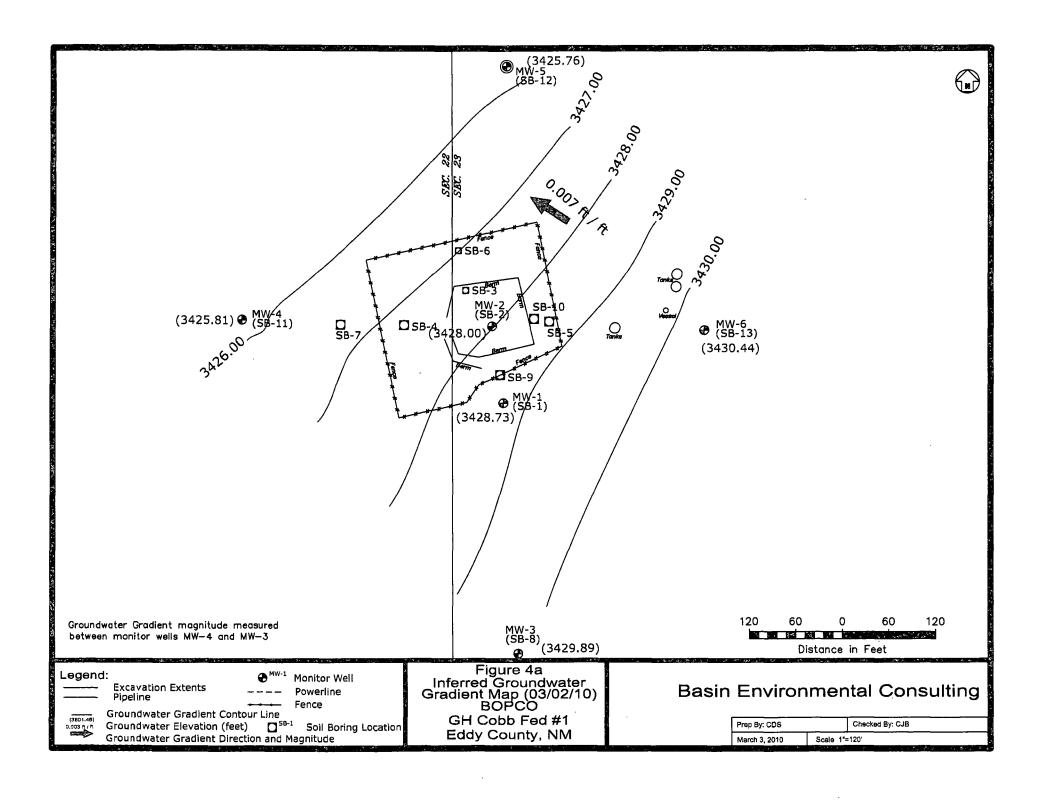
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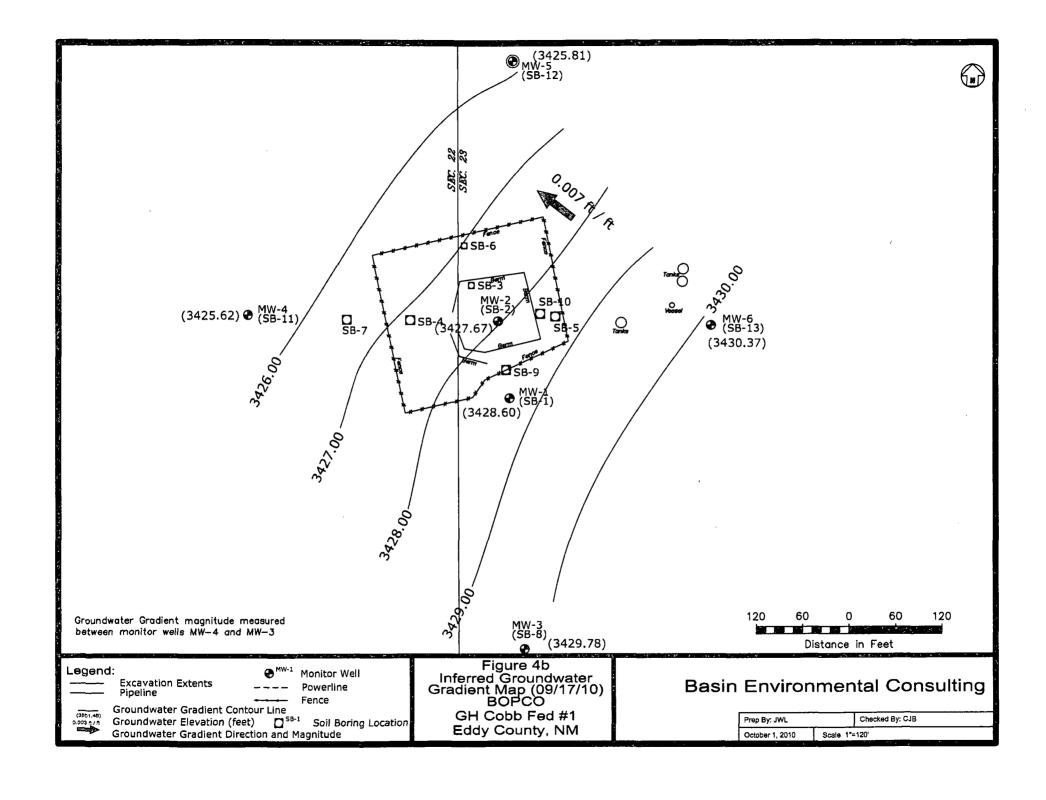
Figures

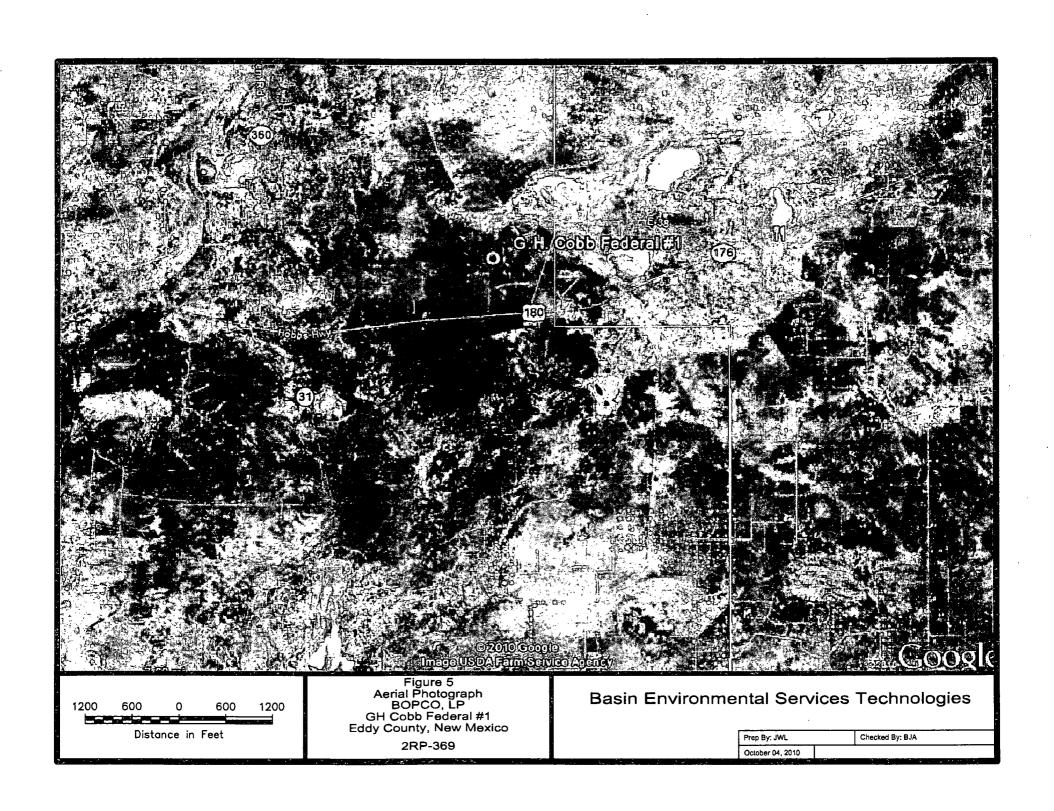












Tables

TABLE 1

CONCENTRATIONS OF TPH, BTEX AND CHLORIDES IN SOIL

BOPCO, LP G.H. COBB FEDERAL #1 EDDY COUNTY, NEW MEXICO NMOCD # 2RP-369

	T			•	METHOD:	EPA SW 846	-8021B, 5030		l	SW 84	8-8015M		4500
SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPL E DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUEN E (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO C ₆₋ C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg	DRO Ext. C ₂₈ -C ₃₅ (mg/Kg)	TOTAL TPH C ₈ -C ₃₅ (mg/Kg)	CHLORID E (mg/Kg)
SB-1 @ 5'	5 Feet	12/30/09	In-Situ	-	•		-	-	<10.0	<10.0	<10.0	<10.0	320
SB-1 @ 15'	15 Feet	12/30/09	In-Situ	-	-	<u> </u>	·	-	<10.0	<10.0	<10.0	<10.0	128
SB-1 @ 25'	25 Feet	12/30/09	In-Situ	-	-				<10.0	40.3	<10.0	40.3	304
SB-1 @ 35'	35 Feet	12/30/09	In-Situ	•		-	-	•	<10.0	<10.0	<10.0	<10.0	1,090
SB-1 @ 45'	45 Feet	12/30/09	In-Situ	-	-		<u> </u>		<10.0	<10.0	<10.0	<10.0	80
SB-1 @ 55'	55 Feet 60 Feet	12/30/09 12/30/09	In-Situ						<10.0 <10.0	<10.0	<10.0 <10.0	<10.0 <10.0	64 112
SB-1 @ 60' SB-1 @ 65'	65 Feet	12/30/09	In-Situ In-Situ			-			<10.0	<10.0	<10.0	<10.0	8,200
SB-1 @ 70'	70 Feet	12/30/09	In-Situ				<u> </u>	<u> </u>	<10.0	<10.0	<10.0	<10.0	4,480
SB-1 @ 75'	75 Feet	12/30/09	In-Situ	-		-			<10.0	<10.0	<10.0	<10.0	1,230
SB-1 @ 80'	80 Feet	12/30/09	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	896
SB-1 @ 85'	85 Feet	12/30/09	In-Situ	<u> </u>	-	•	-	-	<10.0	<10.0	<10.0	<10.0	624
SB-1 @ 90'	90 Feet	12/30/09	In-Situ		•	-	-	-	<10.0	<10.0	<10.0	<10.0	144
SB-2 @ 5'	34 Feet	01/04/10	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	15.6	<10.0	15.6	5,840
SB-2 @ 15'	44 Feet	01/04/10	In-Situ	-		-	-	-	•	-	-		2,240
SB-2 @ 25'	54 Feet	01/04/10	In-Situ	-	-	-		-		-	·	-	10,800
SB-2 @ 35'	64 Feet	01/04/10	In-Situ			-	-	-			-		15,400
SB-2 @ 45'	74 Feet	01/04/10	In-Situ			-	-	-	-		-		9,000
SB-2 @ 50'	79 Feet	01/04/10	In-Situ	-	-	<u> </u>	-	-	-		-	-	7,800
SB-2 @ 55'	84 Feet	01/04/10	In-Situ	<u> </u>	-	-	-	-			<u> </u>	-	5,500
SB-2 @ 60'	89 Feet	01/04/10	In-Situ	-	•	-	-	- '	:	<u>-</u> ₹5,		- 	1,300
SB-3 @ 5'	20 Feet	01/04/10	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	14.8	<10.0	14.8	528
SB-3 @ 15'	30 Feet	01/04/10	In-Situ		-					<u> </u>	<u> </u>		384
SB-3 @ 25'	40 Feet	01/04/10	In-Situ	·	<u> </u>		-	-	-	<u> </u>	-	-	4,800
SB-3 @ 35'	50 Feet 55 Feet	01/04/10	In-Situ In-Situ	-	-		-	-	<u> </u>	ļ	- : -		6,800 12,000
SB-3 @ 40' SB-3 @ 45'	60 Feet	01/04/10	In-Situ	-	 		· · · · · · · · · · · · · · · · · · ·			-			9.500
SB-3 @ 55'	70 Feet	01/04/10	In-Situ		 -	 				<u> </u>		-	6,300
SB-3 @ 60'	75 Feet	01/04/10	In-Situ	-	-	-	-			Ţ.	-	· · · · · ·	5,200
SB-4 @ 5'	5 Feet	01/05/10	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	16.6	<10.0	16.6	128
SB-4 @ 15'	15 Feet	01/05/10	In-Situ	-	-	-	-	-		-	-	-	160
SB-4 @ 25'	25 Feet	01/05/10	In-Situ	-	-	·		•	-	-	-		4,100
SB-4 @ 30'	30 Feet	01/05/10	In-Situ	-	-	<u></u>		<u> </u>		<u> </u>			6,960
SB-4 @ 35'	35 Feet	01/05/10	in-Situ	-	-	-			•	<u> </u>	<u> </u>	<u></u>	2,360
SB-4 @ 45' SB-4 @ 55'	45 Feet 55 Feet	01/05/10	In-Situ In-Situ	-	-	-	-				-	-	3,200 2,600
SB-4 @ 60'	60 Feet	01/05/10	In-Situ	 	-				-	- -	<u> </u>	- <u>:</u>	11,900
SB-4 @ 65'	65 Feet	01/05/10	In-Situ	-	-			-		<u> </u>			12,800
SB-4 @ 70'	70 Feet	01/05/10	In-Situ		-	 			-		-		14,400
SB-4 @ 75'	75 Feet	01/05/10	In-Situ	-	-	-		-	-	-			8,160
SB-5 @ 5'	5 Feet	01/05/10	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	17.2	<10.0	17.2	672
SB-5 @ 15'	15 Feet	01/05/10	In-Situ	· ·		-	<u> </u>						560
SB-5 @ 25'	25 Feet	01/05/10	In-Situ		-				-	-	•		1,460
SB-5 @ 35'	35 Feet	01/06/10	In-Situ	<u> </u>	-	-	-	-	<u> </u>			-	2,920
SB-5 @ 45'	45 Feet	01/06/10	In-Situ	<u> </u>	<u> </u>		-	-	-	-		-	7,200
SB-5 @ 55'	55 Feet 65 Feet	01/06/10	In-Situ	-			 :	-	-			-	3,720 6,240
SB-5 @ 65' SB-5 @ 70'	70 Feet	01/06/10	In-Situ In-Situ	 		 			 		-	-	576
SB-5 @ 75'	75 Feet	01/06/10	In-Situ	 					 -	├ :-	 	-	3,320
SB-5 @ 80'	80 Feet	01/06/10	In-Situ	-	-	-					-	-	18,600
SB-6 @ 5'	5 Feet	01/06/10	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	432
SB-6 @ 15'	15 Feet	01/06/10	In-Situ		-	-	-		1 -	T		-	304
SB-6 @ 25'	25 Feet	01/06/10	In-Situ	 	•	-	-				-	-	704
SB-6 @ 35'	35 Feet	01/06/10	In-Situ	<u> </u>	•	-		-	-	-		-	7.520
SB-6 @ 45'	45 Feet	01/06/10	In-Situ	-	-	-		-	-	-	· .	-	4,320
SB-6 @ 55'	55 Feet	01/06/10	In-Situ	· ·	-		<u> </u>	<u> </u>	· ·		-		5,760
SB-6 @ 60'	60 Feet	01/06/10	In-Situ	-	-	-			<u> </u>		-		8,560
SB-6 @ 65'	65 Cant	01/06/10	In Cit			1	I -				I		12.400
SB-6 @ 65' SB-6 @ 70'	65 Feet 70 Feet	01/06/10	In-Situ In-Situ	-	-			-:-	-	<u> </u>	-	-	13,400 12,400

CONCENTRATIONS OF TPH, BTEX AND CHLORIDES IN SOIL

BOPCO, LP G.H. COBB FEDERAL #1 EDDY COUNTY, NEW MEXICO NMOCD # 2RP-369

					NMOCD	# 2RP-369							
	<u> </u>	1		Γ	METHOD:	EPA SW 846	-8021B, 5030	,	г	SW 84	8-8015M		4500
SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPL E DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUEN E (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO C ₆₋ C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	DRO Ext. C ₂₈ -C ₃₅ (mg/Kg)	TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	CHLORID E (mg/Kg)
SB-7 @ 5'	5 Feet	01/11/10	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	32
SB-7 @ 15'	15 Feet	01/11/10	In-Situ	-	-	-		-	-	<u> </u>	-	-	272
SB-7 @ 25' SB-7 @ 30'	25 Feet 30 Feet	01/11/10	In-Situ In-Situ			<u>:</u>	-	-	-				432
SB-7 @ 35'	35 Feet	01/11/10	In-Situ			<u> </u>	-		<u> </u>				7,040
SB-7 @ 45'	45 Feet	01/11/10	In-Situ			-		-	-				6,080
SB-7 @ 55'	55 Feet	01/11/10	In-Situ	•	-	-	-	-	-	-	-	-	5,280
SB-7 @ 60'	60 Feet	01/11/10	In-Situ	-	•	-	-	-	-	-	-	-	8,800
SB-7 @ 65'	65 Feet	01/11/10	In-Situ	-	-		-	-	-	-			2,960
SB-7 @ 70' SB-7 @ 75'	70 Feet 75 Feet	01/11/10	In-Situ In-Situ			-	-	<u> </u>		-	-	-	1,880
38-1 (t) 13	10 FEEL	75 63	/*C	7 K.S	- 2 pr 1 - 4 pr 2 s	29.7	win to grant a con-	. Ug. 40 €57	- \$100 %	U. 755	2000 5 800	The street	12,400
SB-8 @ 5'	5 Feet	01/12/10	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	560
SB-8 @ 15'	15 Feet	01/12/10	In-Situ	-	•	-	-	•		-	-	-	240
SB-8 @ 25'	25 Feet	01/12/10	In-Situ	-		-	-	-	-	-	-	-	288
SB-8 @ 35'	35 Feet	01/12/10	In-Situ	-		<u> </u>	<u> </u>	:	-	-	-	•	80
SB-8 @ 45' SB-8 @ 55'	45 Feet 55 Feet	01/12/10	In-Situ In-Situ			<u> </u>				<u> </u>	-	-	48
SB-8 @ 65'	65 Feet	01/12/10	In-Situ	-	-	-			-	 	-	-	32 32
SB-8 @ 75'	75 Feet	01/12/10	In-Situ	 		 	-	-					32
SB-8 @ 80'	80 Feet	01/12/10	In-Situ	-	-	-		 	•	 -	-		48
SB-8 @ 85'	85 Feet	01/12/10	In-Situ		-	<u> </u>							48
ON THE PROPERTY OF			China de	3/4		2000	* T.	ri Ješia	1221	ALTEL	* - Y 12-75	, and ,	: 35""
SB-9 @ 5'	5 Feet	01/12/10	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	1,140
SB-9 @ 15' SB-9 @ 20'	15 Feet 20 Feet	01/12/10	In-Situ In-Situ		-	 : -		-	-	- :		:	144 192
35-9 (J) 20	20 Feet	01/12/10	111-3itu	- v	14 4 F. D	- 		The state of the	\$1.5° (1.7°)	79 (\$10 t			192
SB-10 @ 5'	5 Feet	01/12/10	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	42.7	<10.0	42.7	1,360
SB-10 @ 15'	15 Feet	01/12/10	In-Situ	-	-	-			• .				416
SB-10 @ 20'	20 Feet	01/12/10	In-Situ	-	-	-	-	-	-	-	-	-	224
A 17 D. C 9 4 17	. K . 1 2	100		* * *	*	N. 2. 2. 2. 2.	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	the same of the	8 n ns	7 7	4.4.2.0	42773	. 1"
SB-11 @ 5'	5 Feet	01/13/10	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	16
SB-11 @ 15' SB-11 @ 25'	15 Feet 25 Feet	01/13/10	In-Situ In-Situ	-	-	-	-		 	<u> </u>		<u> </u>	208
SB-11 @ 35'	35 Feet	01/13/10	In-Situ		-	-	-	 		 			208 96
SB-11 @ 45'	45 Feet	01/13/10	In-Situ	<u> </u>			-		 	-			64
SB-11 @ 55'	55 Feet	01/13/10	In-Situ	-	-	-	-	·	-	-	-	-	32
SB-11 @ 65'	65 Feet	01/13/10	In-Situ	-	-	-	-	-	-		-	-	96
SB-11 @ 70'	70 Feet	01/13/10	In-Situ	-	-	-	-	-	-	-			7,000
SB-11 @ 75'	75 Feet	01/13/10	In-Situ	<u> </u>			<u> </u>	<u> </u>	<u> </u>				976
SB-11 @ 80'	80 Feet	01/15/10	In-Situ	Y . 22-1 33	-	5 % 14.1		19 0 0 0	***	4.7.7.7.4			3,440
SB-12 @ 5'	5 Feet	01/15/10	In-Situ	<0.050	< 0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	48
SB-12 @ 15'	15 Feet	01/15/10	In-Situ	-0.000	-0.000	-0.000			-10.0	-10.0	-10.0	-10.0	208
SB-12 @ 25'	25 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	240
SB-12 @ 35'	35 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	48
SB-12 @ 45'	45 Feet	01/15/10	In-Situ	-	•		-	-	-	-		-	128
SB-12 @ 55'	55 Feet	01/15/10	In-Situ	-		<u> </u>	-	-	<u> </u>	-	-	-	144
SB-12 @ 65'	65 Feet	01/15/10	In-Situ		-		<u> </u>	····		-	-	-	4,000
SB-12 @ 75' SB-12 @ 80'	75 Feet 80 Feet	01/15/10	In-Situ In-Situ		<u> </u>			-					2,640 5,680
SB-12 @ 85'	85 Feet	01/15/10	In-Situ	-	-	-		-	-	-		-	2,680
SB-12 @ 90'	90 Feet	01/15/10	In-Situ	<u> </u>		-	-		-		-	-	992
00.43.6.5	5 E4	04/45/40	15 407 1 1	10.050	0.555	0.050	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.555	1000	16.00 pt 2	· · · · · · · · · · · · · · · · · · ·		100
SB-13 @ 5' SB-13 @ 15'	5 Feet	01/15/10	In-Situ In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	144
SB-13 @ 25'		01/15/10				- -	 	 - 		 		-	96 96
SB-13 @ 35'		01/15/10		-			<u> </u>	-	 	 			96
SB-13 @ 45'		01/15/10	In-Situ	-	-	-	<u>-</u>	-	-	<u> </u>	-	_	80
SB-13 @ 55'	55 Feet		In-Situ			-	•		-	-	-	-	32
SB-13 @ 65'	65 Feet	01/15/10			-	-		-	-	-	-		32
SB-13 @ 75' SB-13 @ 85'	75 Feet 85 Feet	01/15/10	In-Situ In-Situ	-		 		<u> </u>	 - : -	<u> </u>	-	-	64 48
SB-13 @ 95'	95 Feet	01/15/10	In-Situ	-			-:-	-		<u> </u>	<u> </u>	<u>-</u>	32
	00.000	10 8	har to Age and	12 T		5125	7 Jan	Jan 18 18 18	are the	10 mg 18 19 7	45年春		ta ikai ett
Northwest S/W @ 10'	10 Feet	01/08/10		<0.050	0.065	<0.050	<0.300	0.065	<10.0	<10.0	<10.0	<10.0	256
Northeast S/W @ 10'	10 Feet		Excavated	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	1,220
West S/W @ 10' East S/W @ 10'	10 Feet		Excavated		<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	4,600
South S/W @ 10'	10 Feet	01/08/10	In-Situ In-Situ	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.300 <0.300	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	9,900 8,500
Northwest Comer @ 10'	10 Feet	01/08/10		<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	192
Northeast Corner @ 10'	10 Feet	01/08/10	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	3,680
Southwest Corner @ 10'	10 Feet	01/08/10		<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	896
Southeast Comer @ 10'	10 Feet	01/08/10	Excavated	< 0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	6,900
	10.5	ALAN SAL	20.4	Jan. 1	, 1,	1. C. J. A.	***** Y	1. M. M.	V	100	rest of the	7 7	13 e 17 B
Northeast S/W A @ 10'	10 Feet	02/11/10		-	-	<u> </u>		-	-	-	•		1,060
Southeast Comer A @ 10' West S/W A @ 10'	10 Feet 10 Feet	02/11/10		-	-			-	<u> </u>	ļ	-	-	768
West S/W A @ 10	To Feet	02/11/10	In-Situ	- 	1	7 A 35/2	10 J. J.J.	3 20 Sr + E2	E	(150 V	- _a\\\\	A 1.8 1.4 1	672
NMOCD Regulatory Stand	ard		<u></u>	10	2.2 .		* ***	50	F	*****		*	1,000
	_		·	· · · •			<u> </u>		ı				.,,,,,,

TABLE 2 GROUNDWATER ELEVATION DATA

BOPCO, LP G.H. COBB FEDERAL #1 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE # 2RP-369

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO WATER	CORRECTED GROUNDWATER ELEVATION
MW-1	01/19/10	3,504.04	74.54	3,429.50
MW-1	01/26/10	3,504.04	75.05	3,428.99
MW-1	02/08/10	3,504.04	74.96	3,429.08
MW-1	02/15/10	3,504.04	75.38	3,428.66
MW-1	02/23/10	3,504.04	75.25	3,428.79
MW-1	03/02/10	3,504.04	75.31	3,428.73
MW-1	03/09/10	3,504.04	74.94	3,429.10
MW-1	03/16/10	3,504.04	75.55	3,428,49
MW-1	03/24/10	3,504.04	75.50	3,428.54
MW-1	03/24/10	3,504.04	78.38	3,425.66
MW-I	03/25/10	3,504.04	75.37	3,428.67
MW-1	03/24/10	3,504.04	78.38	3,425.66
MW-1	06/03/10	3,504.04	79.12	3,424.92
MW-1	09/17/10	3,504.04	75.44	3,428.60
		3,504.04 (************************************	75.44	3,720.00
MW-2	01/19/10	3,488.72	58.78	3,429.94
MW-2	01/26/10	3,488.72	58.92	3,429.80
MW-2	02/08/10	3,488.72	59.81	3,428.91
MW-2	02/15/10	3,488.72	61.75	3,426.97
MW-2	02/23/10	3,488.72	60.58	3,428.14
MW-2	03/02/10	3,488.72	60.72	3,428.00
MW-2	03/09/10	3,488.72	60.41	3,428.31
MW-2	03/16/10	3,488.72	60.97	3,427.75
MW-2	03/24/10	3,488.72	60.55	3,428.17
MW-2	03/24/10	3,488.72	60.73	3,427.99
MW-2	03/25/10	3.488.72	60.80	3,427.92
MW-2	06/03/10	3,488.72	60.67	3,428.05
MW-2	09/17/10	3,488.72	61.05	3,427.67
100 M		3,700.72	Carting the Co.	-,,
MW-3	01/19/10	3,511.20	-	<u> </u>
MW-3	01/26/10	3,511.20	94.07	3,417.13
MW-3	02/08/10	3,511.20	82.34	3,428.86
MW-3	02/15/10	3,511.20	81.37	3,429.83
MW-3	02/23/10	3,511.20	81.32	3,429.88
MW-3	03/02/10	3,511.20	81.31	3,429.89
MW-3	03/09/10	3,511.20	81.09	3,430.11
MW-3	03/16/10	3,511.20	81.43	3,429.77
MW-3	03/24/10	3,511.20	81.08	3,430.12
MW-3	03/24/10	3,511.20	102.65	3,408.55
MW-3	03/25/10	3,511.20	100.00	3,411.20
MW-3	06/03/10	3,511.20	81.21	3,429.99

TABLE 2 GROUNDWATER ELEVATION DATA

BOPCO, LP G.H. COBB FEDERAL #1 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE # 2RP-369

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO WATER	CORRECTED GROUNDWATER ELEVATION
MW-3	09/17/10	3,511.20	81.42	3,429.78
MW-4	01/19/10	3,495.59	69.49	3,426.10
MW-4	01/26/10	3,495.59	69.64	3,425.95
MW-4	02/08/10	3,495.59	69.43	3,426.16
MW-4	02/15/10	3,495.59	69.81	3,425.78
MW-4	02/23/10	3,495.59	69.65	3,425.94
MW-4	03/02/10	3,495.59	69.78	3,425.81
MW-4	03/09/10	3,495.59	69.44	3,426.15
MW-4	03/09/10	3,495.59	69.44	3,426.15
MW-4	03/16/10	3,495.59	70.06	3,425.53
MW-4	03/24/10	3,495.59	69.56	3,426.03
MW-4	03/24/10	3,495.59	70.47	3,425.12
MW-4	03/25/10	3,495.59	69.66	3,425.93
MW-4	06/03/10	3,495.59	69.46	3,426.13
MW-4	09/17/10	3,495.59	69.97	3,425.62
		発表した。		
MW-5	01/19/10	3,494.38	68.67	3,425.71
MW-5	01/26/10	3,494.38	68.74	3,425.64
MW-5	02/08/10	3,494.38	68.39	3,425.99
MW-5	02/15/10	3,494.38	68.76	3,425.62
MW-5	02/23/10	3,494.38	68.61	3,425.77
MW-5	03/02/10	3,494.38	68.62	3,425.76
MW-5	03/09/10	3,494.38	68.21	3,426.17
MW-5	03/16/10	3,494.38	68.75	3,425.63
MW-5	03/24/10	3,494.38	68.30	3,426.08
MW-5	03/24/10	3,494.38	69.18	3,425.20
MW-5	03/25/10	3,494.38	68.90	3,425.48
MW-5	06/03/10	3,494.38	68.31	3,426.07
MW-5	09/17/10	3,494.38	68.57	3,425.81
MW 6	01/10/10	3 506 93		2 420 04
MW-6	01/19/10 01/26/10	3,506.82 3,506.82	75.88 76.91	3,430.94 3,429.91
MW-6	02/08/10	3,506.82	75.98	3,430.84
MW-6	02/15/10	3,506.82	76.42	3,430.40
MW-6	02/23/10	3,506.82	76.30	3,430.52
MW-6	03/02/10	3,506.82	76.38	3,430.44
MW-6	03/09/10	3,506.82	76.00	3,430.82
MW-6	03/16/10	3,506.82	76.61	3,430.21
MW-6	03/24/10	3,506.82	76.04	3,430.78
MW-6	03/24/10	3,506.82	77.92	3,428.90
MW-6	03/25/10	3,506.82	76.54	3,430.28
MW-6	06/03/10	3,506.82	76.19	3,430.63
MW-6	09/17/10	3,506.82	76.45	3,430.37
			Land to the ship to the same	

TABLE 3

CONCENTRATIONS OF BENZENE, BTEX , METALS, CHLORIDE AND TDS IN GROUNDWATER

BOPCO, LP GH COBB FEDERAL #1 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE NO: 2RP-369

		Γ		EP	A 8021B					TC	LP SW846 60	10B			TCPL SW 7470A	E 4500	EPA160.1
SAMPLE LOCATION	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (ma/L)	M,P- XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL BTEX (mg/L)	LEAD (mg/L)	ARSENIC (mg/L)	CADMIUM (mg/L)	CHROMIUM (mg/L)	SELENIUM (mg/L)	SILVER (mg/L)	BARIUM (mg/L)	MERCURY (mg/L)	CHLORIDES (mg/L)	TDS (mg/L)
MW-1	01/26/10		-	-	-	-	-			-	_		-	-	1	41,000	63,200
MW-1	06/03/10	_	-	-	_	-		-	_	_	-		-	1	1	46,000	-
MW-1	09/17/10	-	-	-	_	-	-	-	-	-	-	_	-	-	1	43,000	1
		3	14 12 30	1 4 7		A. C. S. S.	1		to the			 (a) (b) (b) (b) 	3 60 18	100米生态		1 gr - 175 1 2 5	
MW-2	01/26/10	_	_		_	_	1	1	-	-	-	-	-		-	134,000	215,000
MW-2	03/24/10	0.0208	<0.0400	<0.0200	0.0432	<0.200	0.064	<2.22	<2.22	<0.111	< 0.556	<2.22	<0.444	1.43	< 0.0001	_	_
MW-2	06/03/10		_		_	-	-	-	_	-	-	-			1	134,000	ļ
MW-2	09/17/10	-		1	_	-	_	-		-	_	-		_	-	140,000	1
saskies, trakti til	1. 4. 5 m Ex	2 4 5 TO 125	\$15,60g \$4	1 25 July 25	4. \$ 10°C		, ** j	* 5 K 8 1 7 3		JA 12 - \$2 / 14	m. 242 M	1. 1. 1. 1. 1. 1. 1.					Aladi, Silel
MW-3	01/26/10	-			-	-	-	-	-			-	-	-	1	124	773
MW-3	06/03/10	-		_	-	-	-	-		-		-	-	-	-	200	_
MW-3	09/17/10		-	-	_	-	-	-	-		_	_		-	-	220	-
	A Mary Mary	14	is much	10 m	1 4 B	1 to 1 to 1 to 1 to 1 to 1	(M) + S(M)	Se - 1000	32 Sec. 5	oley t	77.77	W 51 35 61	6	9 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 .	心能性 医脓性 医血色	1917 4 (4)	80 J. A. 1922 J. C. Stavel
MW-4	01/26/10	-	-	- 1	_	-	-	_	-	-	_	-	<u> </u>			51,000	72,500
MW-4	06/03/10	-	-	_		-	-	-	-	1		-		-	ı	49,500	
MW-4	09/17/10		-	-		_	-	-	-			-		_	ı	48,000	
	图 编数 电光	Pre 1 4 6 2	1 1 1 1 1 1 1 1 1	33 32 30	7749 W	Mark Cook	Probability	S. Barrel	3700	Garage and	Sec. 1	San Page	1.5 1.5			16 4 4 55	
MW-5	01/26/10		-	_		_			-	_	_	_	_		1	83,000	118,000
MW-5	06/03/10	-	_	-		_			-	-				-	ı	70,000	-
MW-5	09/17/10	-				_	-	-	-	-	-				ı	76,000	_
	1961年第54	మ జనాగరా				\$20 a. 10	16 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13	2000 G A A You	e San Su	S22 " 5 74			Sec. 18	となっています。	200	
MW-6	01/26/10	_	-	-	_	_	_	_	_	1	-	-		-	-	424	1,440
MW-6	06/03/10		-	-		-	_	-	_	_		-	= = :		_	456	-
MW-6	09/17/10	-	_	-	_	-	-			1	-	-			-	500	_
		# Linux	Francis	G 3 2		Jan Jan St		- W 10	5 30 B			7.5	- 1	100		\$ 1 may 5	2. 3.
Produced Water Tank	03/24/10	0.0798	<0.0400	0.1028	<0.0400	<0.0200	0.1826	<2.22	<2.22	<0.111	<0.556	<2.22	<0.444	2.06	<0.0001		_
Production of the last	The Comment	- 150 N A	14	and the second	or that, also	Tell my Mig.	Chamber of the	* " > -	Tear to	100	Α.,	まずる ひか	1 (1) (2) >	19 (A. 195)	DARKER MODER	N 1 2 30	" " " " " " " " " " " " " " " " " " "
REGULATORY STANDARD		0.01	0.75	0.75	TOTAL XY	LENES 0.62		1.00	1.00	0.2	1.00	1.00	1.00	20	0.04	250	10,000

TABLE 4

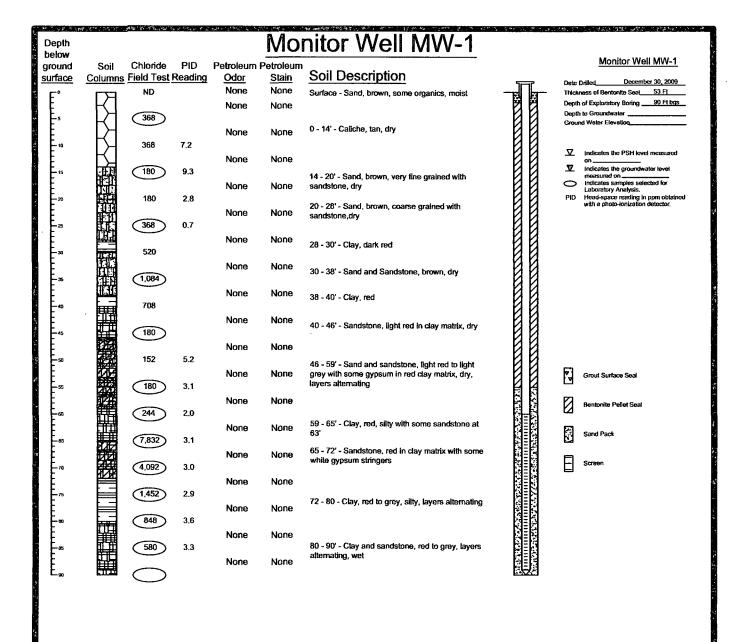
CONCENTRATIONS OF POTASSIUM, ARSENIC AND MAGNESIUM IN SOIL

BOPCO, LP G.H. COBB FEDERAL #1 EDDY COUNTY, NEW MEXICO

	<u> </u>			METHOD:	EPA 600/4-9	1/010, 3050
SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPLE DATE	SOIL STATUS	TOTAL POTASSIUM (mg/Kg)	TOTAL ARSENIC (mg/Kg)	TOTAL MAGNESIUM (mg/Kg)
SB-1 @ 60'	60 Feet	12/30/09	In-Situ	459	<5	3,340
SB-1 @ 65'	65 Feet	12/30/09	In-Situ	494	<5	4,600
SB-1 @ 70'	70 Feet	12/30/09	In-Situ	600	<5	7,140
SB-1 @ 75'	75 Feet	12/30/09	In-Situ	2,150	7.2	12,200
SB-2 @ Surface	29 Feet	01/04/10	In-Situ	701	10.8	3,170
SB-2 @ 5'	44 Feet		In-Situ	730	<10.0	8,900
SB-2 @ 35'	64 Feet	01/04/10	In-Situ	1,060	<10.0	7,110
SB-2 @ 40'	69 Feet		In-Situ	1,330	16	18,800
SB-2 @ 45'	74 Feet	01/04/10	In-Situ	684	<10	6,740
SB-2 @ 50'	79 Feet	01/04/10	In-Situ	884	11.2	12,300,
SB-3 @ Surface	15 Feet		In-Situ	1,030	<10	7,290
SB-3 @ 5'	20 Feet	01/04/10	In-Situ	455	<10	4,150
SB-3 @ 50'	65 Feet	01/04/10	In-Situ	1,610	<10	9,930
SB-3 @ 55'	70 Feet	01/04/10	In-Situ	1,490	12.1	14,800
SB-3 @ 60'	75 Feet	01/04/10	In-Situ	1,990	13.9	16,600
SB-4 @ 25'	25 Feet	01/05/10	In-Situ	452	11.9	3,660
SB-4 @ 60'	60 Feet	01/05/10	In-Situ	927	<10	7,960
SB-4 @ 65'	65 Feet	01/05/10	In-Situ	1,420	12.7	18,400
SB-4 @ 70'	70 Feet		In-Situ	1,350	10	13,000
SB-4 @ 75'	75 Feet	01/05/10	In-Situ	1,010	14.3	15,800
SB-5 @ 25'	25 Feet	01/06/10	In-Situ	752	<10	6,670
SB-5 @ 65'	65 Feet		In-Situ	1,150	<10	5,100
SB-5 @ 70'	70 Feet	01/06/10	In-Situ	1,290	15.1	18,100
SB-5 @ 75'	75 Feet	01/06/10	In-Situ	630	<10	3,260
SB-5 @ 80'	80 Feet	01/06/10	In-Situ	1,200	<10	9,770
SB-6 @ 25'	25 Feet	01/06/10	In-Situ	887	<10	6,260
SB-6 @ 35'	35 Feet	01/06/10	In-Situ	985	<10	18,000
SB-6 @ 60'	60 Feet	01/06/10	In-Situ	1,570	<10	6,990
SB-6 @ 65'	65 Feet		In-Situ	1,220	10.4	11,000
SB-6 @ 70'	70 Feet	01/06/10	In-Situ	748	<10	2,870
			Market Company	了的第三字数2000年	1. 2 TUS	主教学、学、学者主
NMOCD Regulatory Standard				-	100	-

Appendices

Appendix A Soil Boring & Monitor Well Logs



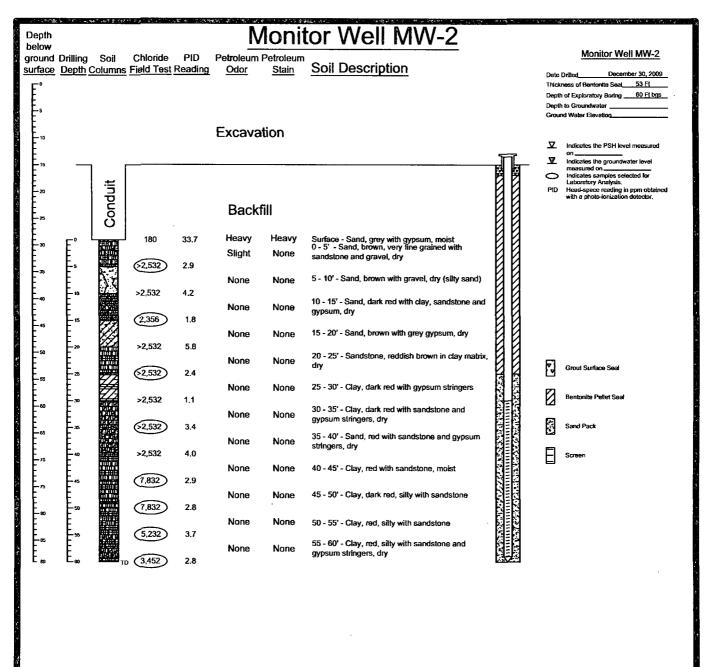
- The monitor well was advanced on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.010 inch factory stotled, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Monitor Well Details MW-1 Soil Boring SB-1 BOPCO GH Cobb Fed #1 Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS Checked By: CJB

May 12, 2010



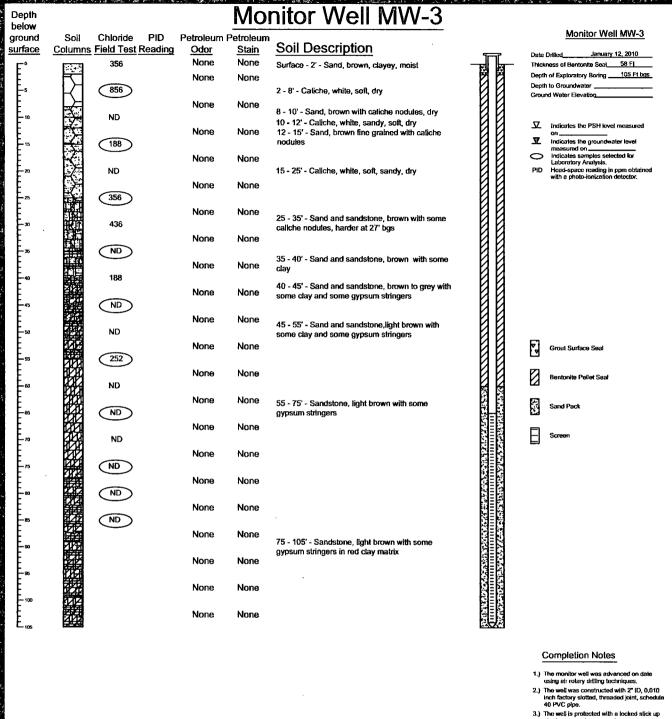
- The monitor well was advanced on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.010 inch factory stotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Monitor Well Details MW-2 Soil Boring SB-2

BOPCO GH Cobb Fed #1 Eddy County, New Mexico

Basin Environmental Consulting

Prep By; CDS Checked By: CJB
May 13, 2010



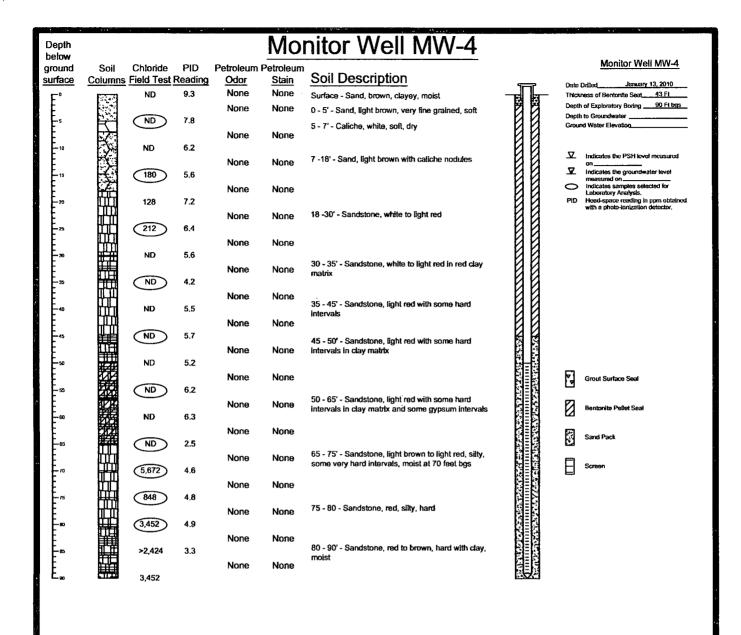
- The well is protected with a locked stick up steel cover and compression cap.
- 4.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Monitor Well Details **MW-3** Soil Boring SB-8

BOPCO GH Cobb Fed #1 **Eddy County, New Mexico**

Basin Environmental Consulting

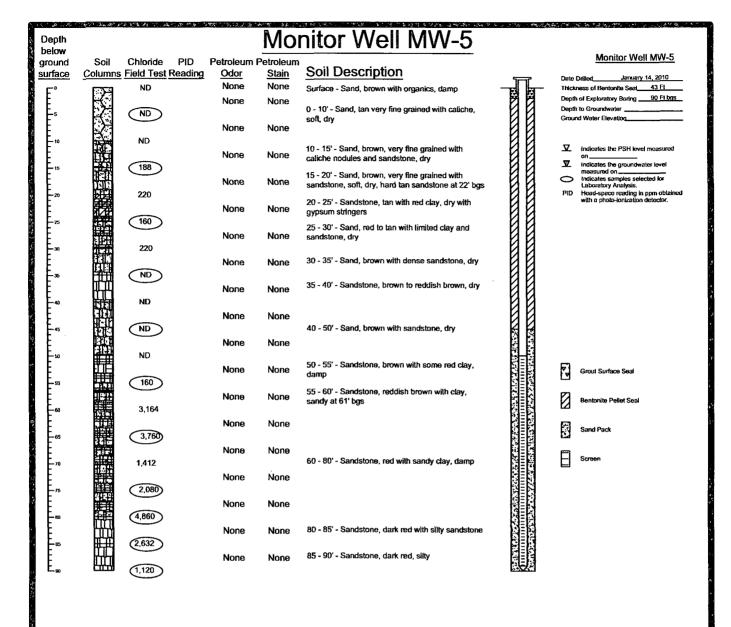
Prep By: CDS Checked By: CJB May 12, 2010



- The monitor well was advanced on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.010 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Monitor Well Details MW-4 Soil Boring SB-11 BOPCO GH Cobb Fed #1 Eddy County, New Mexico

Basin Environmental Consulting

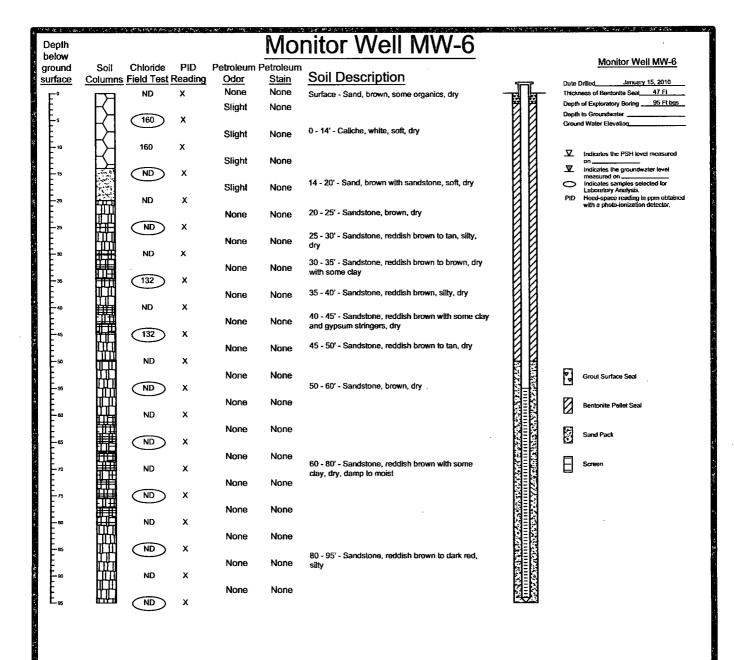


- The monitor well was advanced on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.010 inch factory stotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a tocked stick up steel cover and compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Monitor Well Details MW-5 Soil Boring SB-12 BOPCO GH Cobb Fed #1 Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS Checked By: CJB
May 12, 2010



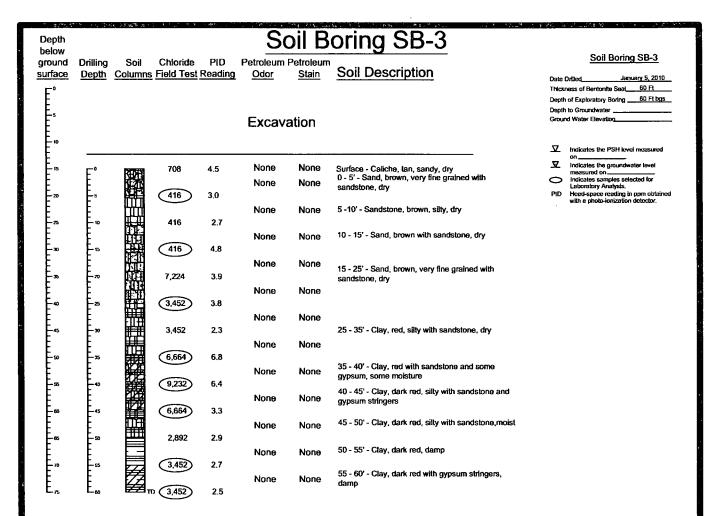
- The monitor well was advenced on date using eir rotary drilling techniques.
- The well was constructed with 2° ID, 0.010 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Monitor Well Details MW-6 Soil Boring SB-13

BOPCO GH Cobb Fed #1 Eddy County, New Mexico **Basin Environmental Consulting**

Prep By: CDS Checked By: CJB

May 12, 2010



- The monitor well was advanced on date using air rotary drilling techniques.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-3

below		I Boring SB-4
	oleum Petroleum	
3		Soil Description
	lone None	
P ND 1.7 N 1.8 N	lone None	Surface - 5' - Sand, brown, very fine grained
1.5 N	lone None	5 - 10' - Caliche, tan, sandy, dry
1.8 N	lone None	10 - 15' - Sand, brown, very fine grained, with caliche, dry
	lone None	15 - 20' - Sand, brown, with sandstone, dry
F 13374	ione None	20 - 25' - Sand, brown, very fine grained with sandstone, dry
F 1990	lone None	25 - 30' - Sand, brown, very fine grained with some clay and sandstone, dry
F 189971 -	lone None	30 - 35' - Sand and sandstone, brown with gypsum stringers, dry
2.3 N	lone None	35 - 40' - Clay, reddish brown, sandy with sendstone, dry
F F 7	lone None	40 - 45' - Sandstone, reddish brown, dense, hard with clay
5.9 N	lone None	45 - 50' - Sandstone, red in clay matrix, dry
4.3 N	lone None	50 - 55' - Sand, brown with sandstone and some clay, dry
	ione None	55 - 60' - Sandstone, reddish brown, coarse grained with clay matrix
	lone None	60 - 65' - Ctay, red, silty with sandstone and grey gypsum, damp
	lone None	65 - 70' - Clay, dark red with sandstone, damp
	lone None	70 - 75' - Clay, dark red, silly with sandstone, wet

Boring SB-4

January 5, 2010

Date Drilled

Denth	to Groundwater
	d Water Elevation
又	Indicates the PSH level measured on
A	Indicates the groundwater level
0	Indicates samples selected for Laboratory Analysis.
PID	Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitor well was advanced on date using air rotary drilling loctritiques.

 The lines between mathefil types shown on the profile log represent approximate boundaries. Actual turnsillions may be gradual.

Depth			AN THE STATE	· · · · · · · · · · · · · · · · · · ·	So	oil Boring SB-5	4
below	0-11	Δ1	DID	D-41 5			Boring SB-5
ground surface	Soil Columns	Chloride Field Test F	PID Reading	Petroleum F Odor	etroleum Stain	Soil Description	
-A	Columna	ND	1.2	None	None	Surface - Sand, brown with organics, dry	Date Drilled January 5, 2010 Thickness of Bentonite Seal 80 Ft
l E	25	ND	1.8	None	None	canas cana, promi min organico, ary	Depth of Exploratory Boring 80 Ft bgs
E.	12.0	(676)	1.0	None	MOHE	0 - 10' - Sand, tan with caliche nodules, dry	Depth to Groundwater
		0,0	1.7	None	None	o - 10 - Carla, mil Wist admission floadies, dry	Ground Water Elevation
E 10		676	1.7	None	None		
F	159	0.0	1.2	None	None		Indicates the PSH level measured on
E 15	X	(572)	1.2	None	NOILG	10 - 20' - Sand, tan, very fine grained, with caliche,	Indicates the groundwater level
F			1.9	None	None	dry	measured on Indicates samples selected for
		396	1.5	None	None		Laboratory Analysis. PID Head-space reading in ppm obtained
ļ ļ	Ш	000	1.9	None	None	20 - 25' - Sand, brown with sandstone, dry	with a photo-ionization detector,
E _{zs}		(1,340)	1.0	None	Hone	•	
		(,0,0)	0.7	None	None	25 - 30' - Sand, brown, very fine grained with	
E ₃₀	111	436	0.1	140116	Hone	sandstone,dry	
		400	1.5	None	None	30 - 35' - Sand, reddish brown with clay, sandstone	
E ₃₅		(1,244)	1.0	None	None	and gypsum stringers, layering, dry	
			2.2	None	None	35 - 40' - Sand, red with limited clay and	
E.40		1,340	2.2	None	140110	sandstone, dry	
ļ Ē		1,010	1,9	None	None	40 - 45' - Clay, red with gypsum, dry	
E 45		(5,232)	1.5	None	140110		
		ويقاي	2.1	None	None	45 - 50' - Sand, reddish brown with clay and	
E₅		4,092	2.1	None	None	sandstone, dry	
F		1,002	2.3	None	None	50 - 55' - Sand, brown, very fine grained with grey	
E.55		(3,164)	2.0	140110	140110	gypsum, layering, dry	
		ر در در	1.7	None	None	55 - 60' - Sand, brown, very fine grained with	
E.so	雦	4,444	•••	140110	110.10	sandstone and some clay, dry	
F		,,,,,,	1.9	None	None	60 - 65' - Sandstone, reddish brown in clay matrix,	
Ë.	Щ	(6,664)	1.5	140116	140116	dry	
l F		(0,00,)	2.0	None	None	65 - 70' - Sandstone, dark red with day and grey	
-70		(856)	2.0	110110	110110	gypsum, layered, dry	
			1.5	None	None	70 - 75' - Sandstone, reddish brown in silty clay, dry	
F_75		(3,164)	•			,	
l E			1.1	None	None	75 - 80' - Clay, dark red, moist	
E _{so}		(13,028)		,,,,,,			
	"						

Completion Notes

- The monitor well was advanced on date using air rotary drilling behinques.
 The lines between material types shown on the profile log represent approximate boundairies. Actual transitions may be gradual.

BOPCO GH Cobb Fed #1 **Eddy County, New Mexico** **Basin Environmental Consulting**

Prep By: CDS Checked By: CJB May 14, 2010

(19) 大學的學科	会社をおり続いた。	a. di Paridi e natil e	A THE SAME OF SAME	K CHROSE OF COMPANY		
Depth					So	il Boring SB-6
below ground	Soil	Chloride	PID	Petroleum F		<u> </u>
surface		Field Test		Odor	Stain	Soil Description
	Columns	ND	1.2	None	None	Surface - Sand, reddish brown, with caliche
Ε°	-	ND				nodules
-	93	(F20)	2.9	None	None	
-5	2.5	(529)				0 - 10' - Sand, tan with soft caliche, dry
ŧ			2.5	None	None	
E 10	11	436				
E		_	3.7	None	None	10 - 15' - Sand, brown with sandstone, dry
⊢ ¹5		(356)				45 90) Cond to to have up you fine assigned with
-15 			4.5	None	None	15 - 20' - Sand, tan to brown, very fine grained with sandstone, dry
E-20		188				
-20 -	441		5.2	None	None	
E-25		792				20 - 40' - Sand, brown, very fine grained with
E			3.6	None	None	sandslone, dry
-30		5,232				•
E ·			2.8	None	None	
<u></u>		(6,664)				
E			7.9	None	None	
-40		3,452	1.0	140110	110110	
į.	ᇤ	0,102	2.3	None	None	
Ē.,		(4,824)	2.0	None	None	40 - 45' - Sandstone, dark red in clay mattix, dry
Ε~		4,024	3.1	Mana	Mana	45 - 50' - Sandstone, layered brown to grey, with
F.,	itati	2.452	3.1	None	None	gypsum, dry
⊢ ∞		3,452				FO FFI Condition house was fine assisted de-
Ė	┟╫╥╨		3.1	None	None	50 - 55' - Sandstone, brown, very fine grained, dry
-55		(5,232)				55 - 60' - Clay, reddish brown, silty with sandstone,
E**		_	5.2	None	None	dry
-60		(7,832)				
Ė		_	4.4	None	None	60 - 65' - Clay, dark red, sandy with sandstone, dry
E-65	開開	13,028				
ŧ			1.9	None	None	65 - 70' - Clay, dark red, sandstone layering, moist
L ₇₀	- H	10,040				

Soil Boring SB-6

	ness of Bentonite Seat70 Ft
Depth	of Exploratory Boring
Depth	to Groundwater
Groun	d Water Elevation
型 変	Indicates the PSH level measured on indicates the groundwater level measured on indicates samples selected for Laboratory Analysis.

Completion Notes

- The monitor well was edvanced on date using air rotary dilling techniques.
 The lines between material types shown the profile log represent approximate boundaries. Actual transitions may be gradual.

Depth below		•			So	il Boring SB-7
ground	Soil	Chloride	PID	Petroleum F	Petroleum	
surface		Field Test		Odor	Stain	Soil Description
		 -	<u>w</u>	None	None	
E°			2.9	None	None	0 - 5' - Sand, tan to grey, very fine grained, moist (snow melt), dry at 6-inches
<u> </u>	3	(ND)	2.5	None	None	5 - 8' - Sand, tan to grey, very fine grained with some caliche nodules, dry
E 10		ND				8 - 11' - Caliche, white, dry, sandy
- 15		(180)	3.7	None	None	11 - 15' - Sand, brown with some caliche layers
- 1° 20		180	4.5	None	None	15 - 22' - Sand, brown with some caliche and red day
- - - -		324	5.2	None	None	22 - 25' - Sand, brown with some caliche
Ę			3.6	None	None	25 - 30' - Sandstone, brown, moderately hard
= 30 E		6,664	2.8	None	None	30 - 34' - Sandstone, brown, moderately hard with some gypsum and clay
- 35 		9,232	7.9	None	None	34 - 40' - Clay, red and sandstone, red, very hard with some gypsum
-40	齫	3,760			*	
45		(5,232)	2.3	None	None	40 - 52' - Sandstone, brown to red in red clay mattrix, moderate to very hard, thin layering with
F.		3,760	3.1	None	None	some gypsum
E E		3,700	3.1	None	None	52 - 55' - Gypsum, white to grey
-55 -		(4,444)				
E E		8,500	5.2	None	None	55 - 65' - Sandstone, red, moderately hard with red clay mattrix
- 5		(2,636)	4.4	None	None	•
		(2,172)	1.9	None	None	65 - 70' - Sandstone, red, moderately hard with red clay mattrix and some gypsum stringers
E"		(10,040)	1.9			70 - 75' - Sandstone, red, hard, moist

Soil Boring SB-7

Thick	Drilled January 11, 2010 ness of Bentonite Seat 75 Ft of Exploratory Boring 75 Ft bgs					
	Depth to Groundwater					
	d Water Elevation					
모	Indicates the PSH level measured on					
A	Indicates the groundwater level measured on					
0	Indicates samples selected for Laboratory Analysis.					
PID	Head-space reading in ppm obtained with a photo-ionization detector.					

Completion Notes

- The monitor well was advanced on date using sir rolary drilling loctriniques.
 The lines between maintail types shown on the profile log represent approximate boundaries. Actual transitions may be gradued.

BOPCO GH Cobb Fed #1 **Eddy County, New Mexico**

Basin Environmental Consulting

Prep By: CDS Checked By: CJB May 14, 2010

Depth below					50	il Boring SB-9		
ground	Soil	Chloride	PID	Petroleum P	etmleum			Soil Boring SB-9
surface		Field Tes		Odor	Stain	Soil Description	Date 1	Drilled January 12, 2010
E°	רכח			None	None	Surface - Caliche lease road	Thick	ness of Bentontte Seat 20 FI
Ē,		(1,000)	6.5	None	None	0 - 7' - Caliche, white	Depth	of Exploratory Boring 20 Ft bgs. to Groundwater
E		520	3.7	None	None	7 - 12' - Sand, brown, dry	Groun	nd Water Elevation
E		(132)	4.2	None	None	12 - 15' - Sand, brown with caliche nodules	五	Indicates the PSH level measured on Indicates the groundwater level
E" E ₂₀	TI TI	, 128	3.7	None	None	15 - 20' - Callche, white and sand, brown with some brown day	PID	measured on

Completion Notes

- The monitor well was advanced on date using air rotary drilling locturiques.
 The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradued.

BOPCO Soil Boring SB-9 GH Cobb Fed #1 Eddy County, New Mexico **Basin Environmental Consulting**

Prep By: CDS Checked By: CJB May 14, 2010

Soil Boring SB-10 Depth below Soil Boring SB-10 Petroleum Petroleum ground Soil Chloride PID Soil Description Surface - Sand, light brown, very fine grained with some clay surface Columns Field Test Reading Odor Stain January 12, 2010 None None Thickness of Bentonite Seal 20 Ft Depth of Exploratory Boring 20 Ft bgs None None Depth to Groundwater Ground Water Elevation None None 0 - 20' - Sand, white to light brown to brown with indicates the PSH level measured None None V None None PiD

Completion Notes

- The monitor well was advanced on date using air rotary drilling techniques.
 The lines between mainful types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-10

BOPCO GH Cobb Fed #1 **Eddy County, New Mexico** **Basin Environmental Consulting**

Prep By; CDS Checked By: CJB

May 14, 2010

Appendix B Analytical Reports



January 5, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: BOPCO 24 511 (Cobb Federal #1)

Enclosed are the results of analyses for sample number H18968, received by the laboratory on 12/31/09 at 9:50 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 6 (includes Chain of Custody)

Sincerely,

Celey D. Reene

Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 12/30/09

Reporting Date: 01/05/10

Project Owner: BOPCO (24511) Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

Sampling Date: 12/30/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4.0°C

Sample Received By: HM

Analyzed By: AB

GRO DRO DRO ext. (Co-Coo) (>Coo-Coo) (>Coo-Coo)

		(C_6-C_{10})	(2010-028)	$(20_{28}, 0_{35})$
LAB NUMBER	SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DA	TE	01/04/10	01/04/10	01/04/10
H18968-1	SB-1 @ 5'	<10.0	<10.0	<10.0
H18968-2	SB-1 @ 15'	<10.0	<10.0	<10.0
H18968-3	SB-1 @ 25'	<10.0	40.3	<10.0
H18968-4	SB-1 @ 35'	<10.0	<10.0	<10.0
H18968-5	SB-1 @ 45'	<10.0	<10.0	<10.0
H18968-6	SB-1 @ 55'	<10.0	<10.0	<10.0
H18968-7	SB-1 @ 60'	<10.0	<10.0	<10.0
H18968-8	SB-1 @ 65'	<10.0	<10.0	<10.0
H18968-9	SB-1 @ 70'	<10.0	<10.0	<10.0
H18968-10	SB-1 @ 75'	<10.0	<10.0	<10.0
H18968-11	SB-1 @ 80'	<10.0	<10.0	<10.0
H18968-12	SB-1 @ 85'	<10.0	<10.0	<10.0
H18968-13	SB-1 @ 90'	<10.0	<10.0	<10.0

Quality Contro		500	479	_
True Value QC	,	500	500	-
% Recovery		100	95.8	_
Relative Perce	nt Difference	13.6	1.2	-

METHODS: TPH GRO & DRO: EPA SW-846 8015 M extended. Reported on wet weight.

Lab Director

H18968 TPHEXT BASIN



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 12/31/09 Reporting Date: 01/04/10

Project Number: 24511 (BOPCO)

Project Name: COBB FEDERAL #1
Project Location: EDDY CO., NM

/04/10 Sampling Date: 12/30/09 /4511 (BOPCO) Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: HM

Analysis Date: 01/04/10

Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H18968-1	SB-1 @ 5'	320
H18968-2	SB-1 @ 15'	128
H18968-3	SB-1 @ 25'	304
H18968-4	SB-1 @ 35'	1,090
H18968-5	SB-1 @ 45'	80
H18968-6	SB-1 @ 55'	64
H18968-7	SB-1 @ 60'	112
H18968-8	SB-1 @ 65'	8,200
H18968-9	SB-1 @ 70'	4,480
H18968-10	SB-1 @ 75'	1,230
H18968-11	SB-1 @ 80'	896
H18968-12	SB-1 @ 85'	624
H18968-13	SB-1 @ 90'	144
Quality Cont	rol	500
True Value (QC	500
% Recovery		100
Relative Per	cent Difference	< 0.1

METHOD: Standard Methods 4500-CI^{*}B

Note: Analyses performed on 1:4 w:v aqueous extracts.

Cnemist

Date



ANALYTICAL RESULTS FOR

BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 12/31/09 Reporting Date: 01/04/10

Project Owner: BOPCO (24511)
Project Name: COBB FEDERAL #1
Project Location: EDDY CO., NM

Sampling Date: 12/30/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: HM

Analyzed By: JM

TOTAL METALS

LAB NO.	SAMPLE ID	Potassium (mg/kg)	Arsenic (mg/kg)	Magnesium (mg/kg)
ANALYSIS	DATE:	01/03/10	01/03/10	01/03/10
H18968-7	SB-1 @ 60'	459	<5.00	3,340
H18968-8	SB-1 @ 65'	494	<5.00	4,600
H18968-9	SB-1 @ 70'	600	<5.00	7,140
H18968-10	SB-1 @ 75'	2,150	7.20	12,200
Quality Cor	ntrol	10.6	5.04	4.91
True Value	QC	10.0	5.00	5.00
% Recovery	/	106	101	98.2
Relative Sta	andard Deviation	8.9	6.8	8.2

METHODS: EPA 600/4-91/010, 3050 6010 6010 6010

Analyses subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.

Date

H18968M BASIN

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C AL	RDINAL LABORATORIES			۵	~		
112	101 East Marland, Hobbs, NM 88240			100	声	1 7	
	(575) 393-2326 Fax (575) 393-24	176		\$	\$	Pageor	
Company Name:	BASINENU. CONS	SUCTING	BILL TO	() () () () () () () () () ()	ANAL X	SIS REQUEST	
Project Manager:			P.O.#: 24511	2			
Address: 28	200 PLAINS HWI	1	Company: BOPC	0 /s/	اكا كاست		
City: DV1	NSTON State: NM	zip: 8871.6	Attn: TONUSA	1015 VO	LSST.		
Phone #: 575	605 7210 Fax#: 575	5-3916-1429	Address:		3333		
	The same of the sa	BoPco	City:	8	ヨウガガ		
Project Name:	COSB FEDERAL		State: Zip:	ŭ l	318		
Project Location	*- · · · · · · · · · · · · · · · · · · ·		Phone #:				
Sampler Name:	114001		Fax #:		1 3 Q		
FOR LAB USE ONLY	3	MATRIX	PRESERV. SAMPLI	र र	·3 · 1 · 10 20		
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Lab I.D.	Sample I.D.	(G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	iii d b		出る女子		
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	SB-1025'			1230			
y.	SB-1@35'			305			
-5	58-1045'			1442			
-c	56-1@5s1			1520			
- 7	SB-1060'			1540	X X X		
<u> </u>	58-1065'		<u> </u>	1600	X X X 1		
-9	58-1@70'			1620	$X \mid X \mid$		
	5B-1@75/	MM	1 // Y	1440 Y	XXXX		
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

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ARDINAL LABORATORIES		l <u>₹</u>	行に	
101 East Marland, Hobbs, NM 88240		4		·~~ ~~
(575) 393-2326 Fax (575) 393-2476		\{\chi_{\sum_{\chi}}\}		Page Zol Z
Company Name: BASIN ENU. CONSUTING	BILL TO		ANALYSIS	REQUEST
Project Manager: CAMILLE BRUANT	P.O.#: 24511] []	3	
Address: 2800 PLAINS HUV	Company: BOPCO] []		
City: LEDUNCTON State: NM Zip: ESZLOO	Alln: TENUSALDIE			
Phone #:575-665-7210 Fax #:575-396-14-29	Address:			
Project#: Z4511 Project Owner: BOPCO	City:	7/81 1		
Project Name: COBS FERENCH!	State: Zip:	- 8	SM	
Project Location: FROM CO. N-M	Phone #:			
Sampler Name:	Fax #:	1 1 1		
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	13		
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Lab I.D. Sample I.D.		12		
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim erising whether base relyses. All Claims including those (or negligence and any other cause whategever at all be deemed waived unless made in writing and receive	ed by Cardinal within 30 days after completion of the applical			
ervico. In no event shall Cordinal be table for incidental or consequents demages, including mithret britishen, business interruptions, has of u Militias or successors stairing out of or related to the performance of services have under by Cerdinat, regardless of unstitut out of dain is base	d upon any of the above stated respons or otherwise.			
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



January 4, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: BOPCO 24 511 (Cobb Federal #1)

Enclosed are the results of analyses for sample number H18968, received by the laboratory on 12/31/09 at 9:50 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely.

Celey D(Kèene Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

Arsenic

(mg/kg)

5.04

5.00

101

6.8

ATTN: CAMILLE BRYANT

P.O. BOX 381

Potassium

(mg/kg)

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 12/31/09 Reporting Date: 01/04/10

LAB NO.

Project Owner: BOPCO (24511) Project Name: COBB FEDERAL #1 Project Location: EDDY CO., NM

SAMPLE ID

Sampling Date: 12/30/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: HM

Analyzed By: JM

TOTAL METALS

Magnesium

(mg/kg)

4.91

5.00

98.2

8.2

ANALYSIS DATE:	01/03/10	01/03/10	01/03/10
H18968-7 SB-1 @ 60'	459	<5.00	3,340
H18968-8 SB-1 @ 65'	494	<5.00	4,600
H18968-9 SB-1 @ 70'	600	<5.00	7,140
H18968-10 SB-1 @ 75'	2,150	7.20	12,200
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IMETHODS: EPA 600/4-91/010, 3050	6010	6010	6010

Analyses subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.

10.6

10.0

106

8.9

Chemist

Quality Control

True Value QC

Relative Standard Deviation

% Recovery

Date

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Project Manager:		VT		P.O.#: 2	+511		\$			少				
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Phone #: 575	605 7210 Fax#: 575			Address:	1			[2]	30					
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servico, in no event shall Car	tional be fable for incidental or consequental demades, including with	out limitation, busin	iness interruptions, loss of us	e, or less of profits incu	rred by client, de s	idaidiaries,								

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	<i>4.</i> 0℃	□ No □ No	1×~	J	,		-	

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

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ARDINAL LABORATORIES				× 1		
101 East Marland, Hobbs, NM 88240		· 4	•	<i>Δ</i> _α ·	Page_Zof_2	2_
(575) 393-2326 Fax (575) 393-2476	BILL TO			ANALYSIS R		
Project Manager: ANN 11 = ROMAINT	P.O. #: 24511				TTT	
Address: 2200 PLAINS HINI	Company: BCPC	- 1		35		
City: LEXINGTON State: NIM Zip: ESZLOC		JOJE VI				
Phone #: 575-105 - 7210 Fax #: 575-394-147	Address:	JUIE V				
Project #: Z4511 Project Owner: BOPCO	City:	1				
Project Name: COBB HEREIZAL # 1	State: Zip:	i§				
Project Location: EDDY Ca NIM	Phone #:			SIM		
Sampler Name:	Fax #:					
FOR LAS USE ONLY MATRI	PRESERV. SAMPLING			80		
N. M. D.		. o .		Par I		
Fap I.D. Sample I.D. CONTAINERS GROUNDWATER WASTEWATER SOIL	noon	1-2				
Lab I.D. Sample I.D.	HASE:	4		4		
(G)RAB OR (C)C # CONTAINERS GROUNDWATE WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TIME				
Tab I.D. Sample I.D. (G)RAB OR (C)OMP (G) RECONTAINERS (G		700 X		 	+-+-	
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**************************************			e client for the			
anyses. In column statemy does to register an any own consequents (any ages, including without induction business intempérer, it enrice. In no event and Cardind be bible for incidents or consequents (amugas, including without induction business intempérers, it filiates or successors printing out of or related to the performance of services hereunds by Cardinal, regardless of whother such claim	s of use, or loss of profits incurred by clark, its subs	Mizios,				
Sampler Relinquished: Date: Received By:	F	hone Result: ax Result:	□ No □ No	Add'l Phone #: Add'l Fax #:		
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Sampler - UPS - Bus - Other:	Ct (Initials)		•			
Sampler-UPS - Bus - Other:	No Hon					

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



January 13, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: BOPCO 24 511 (Cobb Federal #1)

Enclosed are the results of analyses for sample number H19001, received by the laboratory on 01/07/10 at 10:25 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TV 1005

Total Patrolaum Hydrogerbone

Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

(18,11)

Sincerely.

Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/07/10

Reporting Date: 01/11/10

Project Name: COBB EEDERAL #1

Project Name: COBB FEDERAL #1

Project Location: EDDY CO., NM

Analysis Date: 01/11/10

Sampling Date: 01/04/10 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5.5°C

Sample Received By: CK

Analyzed By: HM

·		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19001-1	SB-2 @ 5'	5,840
H19001-2	SB-2 @ 15'	2,240
H19001-3	SB-2 @ 25'	10,800
H19001-4	SB-2 @ 35'	15,400
H19001-5	SB-2 @ 45'	9,000
H19001-6	SB-2 @ 50'	7,800
H19001-7	SB-2 @ 55'	5,500
H19001-8	SB-2 @ 60'	1,300
H19001-9	SB-3 @ 5'	528
H19001-10	SB-3 @ 15'	384
H19001-11	SB-3 @ 25'	4,800
H19001-12	SB-3 @ 35'	6,800
H19001-13	SB-3 @ 40'	12,000
Quality Cont	rol	500
True Value (2C	500
% Recovery		100
Relative Per	cent Difference	2.0

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

Chemist

Date



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/07/10 Analysis Date: 01/11/10

Reporting Date: 01/11/10 Sampling Date: 01/04/10 & 01/05/10

Project Number: 24511 (BOPCO, LP) Sample Type: SOIL

Project Name: COBB FEDERAL #1 Sample Condition: COOL & INTACT @ 5.5°C

Project Location: EDDY CO., NM Sample Received By: JH

Analyzed By: HM

		CI ⁻
LAB NO.	SAMPLE ID	(mg/kg)
H19001-14	SB-3 @ 45'	9,500)
H19001-15	SB-3 @ 55'	6,300
H19001-16	SB-3 @ 60'	5,200
H19001-17	SB-4 @ 5'	128
H19001-18	SB-4 @ 15'	160
H19001-19	SB-4 @ 25'	4,100
H19001-20	SB-4 @ 30'	6,960
H19001-21	SB-4 @ 35'	2,360
H19001-22	SB-4 @ 45'	3,200
H19001-23	SB-4 @ 55'	2,600
H19001-24	SB-4 @ 60'	11,900
H19001-25	SB-4 @ 65'	12,800
H19001-26	SB-4 @ 70'	14,400
H19001-27	SB-4 @ 75'	8,160
Quality Cont	rol	510
True Value (SC .	500
% Recovery		102
Relative Per	cent Difference	2.0

METUOD.	Ctondood Mathada	4500-CIB
INE LUCU:	Standard Methods	4300-CID

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

Date

01/13/10



ANALYTICAL RESULTS FOR

BASIN ENVIRONMENTAL CONSULTING

ATTN: CAMILLE BRYANT

2800 PLAINS HWY

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/07/10

Sampling Date: 01/04/10 & 01/05/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5.5°C

Sample Received By: JH Analyzed By: AB/ZL

Reporting Date: 01/08/10 Project Number: BOPCO, LP (24511)

Project Name: COBB FEDERAL #1 Project Location: EDDY CO., NM

GRO DRO DRO ext. **ETHYL TOTAL** LAB NO. SAMPLE ID $(C_{6}-C_{10})$ (>C10-C28) (>C28-C35) BENZENE TOLUENE BENZENE XYLENES (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE:	01/07/10	01/07/10	01/07/10	01/08/10	01/08/10	01/08/10	01/08/10
H19001-1 SB-2 @ 5'	<10.0	15.6	<10.0	<0.050	<0.050	<0.050	<0.300
H19001-9 SB-3 @ 5'	<10.0	14.8	<10.0	<0.050	<0.050	<0.050	<0.300
H19001-17 SB-4 @ 5'	<10.0	16.6	<10.0	<0.050	<0.050	<0.050	<0.300
parters against appoints appoint appoi							+
Annes (continuente physical spill spill should be the second spill							Appear assessed appearing on
Quality Control	450	443	-	0.048	0.047	0.049	0.135
True Value QC	500	500	-	0.050	0.050	0.050	0.150
% Recovery	90.0	88.6	-	96.0	94.0	98.0	90.0
Relative Percent Difference	5.1	10.3	-	2.0	2.1	2.0	2.6

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE. AND TOTAL XYLENES. Reported on wet weight. Not accredited for GRO/DRO/DRO ext.

H19001 TPHextBTEX BASIN

Page_1_or_3_

	(5/5) 393-2320 Fax (5/5) 35											
Company Name:	DHSIN ENV.	ENSULTING _	BILL TO			-	ANALYS	IS REQU	EST			
Project Manager	CAMILLE	PUANT	P.O.#: 24:511								l	l
Address: Z	200 PLAINS	HWU	Company: BEPCO	_		-					1	
City: LOUL	NGTON State: N	Mzp: 88260	AMM: TONY SAUCHE									
Phone #: 57	5-405-7210Fax#: 5	75-396-1479	Address:	Q	الا	l				. 1	-	İ
Project #:	24511 Project O	uner: BOPCO	City:		W .	2						1
Project Name:	COBB FEDE	KACI	State: Zip:	17	5	7						- 1
Project Location:	(FRON CEUNT	1 NM	Phone #:	- †	BOISM	0						
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service. In no event shall Car	timal he sable for incatental or consequental damages, includ glout of or railated to the performance of confices harounder	ing without iteratation, business interruptions, loss of a	no, or loss of profes incurred by clost, its subsidiaries,									
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Delivered By:	(Circle One)	Temp. Sample Conditi Cool Inlact	(initials)									
Sampler - UPS -	Bus - Other:	55 (Yes PYes	s Male			•						

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



(575) 393-2326 Fax (575) 393-2476

Page Zof 3

Company Name:	BASIN ENV. C	DASLICTING	BILL TO			ANALYSIS REQU	JEST	
Project Manager:	~	Wither	P.O.#: 24.511					
Address: Z	800 PLAINS	Ywy	Company: ROPC	0				
City: DIJI	NGTON State: NY	1 zip: 88 z60	Attn: Toniy SA	101E				
Phone #: 57	5-605-7210Fax#: 57	5-396-14-29	Address:	Q				
Project#:	24511 Project Own	or BOPCO	City:					
Project Name:	COBB FEDER	nc #1	State: Zip:		2 0			
Project Location:	ERROY CEUNTY		Phone #:		NS OS			
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-13	5B-3@ 40'			1605				
-14	5B-3@ 45'			1625				
15	58-3 e 55'			1700 /				
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



(575) 393-2326 Fax (575) 393-2476

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Page	500	2

Company Name:	BASIN ENV. CO	NSCITING	BILL TO			ANALYSIS REQUI	EST	
Project Manager:		IANT	P.O.# 24511					
Address: Z	SEO PLAINS A	(1)	Company: BEPC	0				l l
City: []	USTO, State: NM	zlp: 88260	Attn: TENY SA-	101E				
Phone #: 57	5-605-7210Fax#: 579	-396-14-29	Address:	1 (1	90			
Project#:	24511 Project Owners	BOPCO	City:		23			
Project Name:	COBB FEDER	٠ <u>ـ +</u> ا	State: Zip:	Y/	M			
Project Location:	ERROY COUNTY	NM	Phone #:	7				
Sampler Name	the factor (1)		Fax #:	2				1 1
FOR LAB USE ONLY	0 0	MATRIX	PRESERV. SAMPLIN	<u> </u>				
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aralyses. All claims including	nd Damages, Cardinats liability and client's exclusive reme those for regigence and any other cause wholseever shall be doesn	contract united in white calls are recover	a by Cerdinal within 30 days after completion	eidasileça ett le r	the client for the			
niens moresoous to eastallin	dinal he table for incidental or consequental damages, including all natural or retained to the performance of services hereunder by Cardi	ol, regardless of whether such claim is based	d upon any of the above stated reasons or at	harwisa.	O No	i Addi Dhana (t.		
Sampler Relinqui	Date: 7/10	Received By:	İ	Phone Result: Fax Result:		Add'l Phone #: -Add'l Fax #:	entergramma enter (entreprinte print en graphic grant entreprinte de la constant de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte del constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprinte de la constant entreprisa entreprinte de la const	
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Delivered By:	(Circle One)	Temp. Sample Condition	on CHECKED BY:					
Sampler - UPS -	Bus - Other:	Cool Intact Ves Ves No No	· PAU					

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



January 13, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: BOPCO 24 511 (Cobb Federal #1)

Enclosed are the results of analyses for sample number H19000, received by the laboratory on 01/07/10 at 10:35 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 6 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC ATTN: CAMILLE BRYANT P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/07/10

Reporting Date: 01/08/10

Project Number: 24511 (BOPCO, LP)

Project Name: COBB FEDERAL #1

Project Location: EDDY CO., NM

Analysis Date: 01/08/10

Sampling Date: 01/05/10 & 01/06/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5.5°C

Sample Received By: JH

Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19000-1	SB-5 @ 5'	672
H19000-2	SB-5 @ 15'	560
H19000-3	SB-5 @ 25'	1,460
H19000-4	SB-5 @ 35'	2,920
H19000-5	SB-5 @ 45'	7,200
H19000-6	SB-5 @ 55'	3,720
H19000-7	SB-5 @ 65'	6,240
H19000-8	SB-5 @ 70'	576
H19000-9	SB-5 @ 75'	3,320
H19000-10	SB-5 @ 80'	18,600
Quality Cont	rol	510
True Value (QC	500
% Recovery		102
Relative Per	cent Difference	2.0

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accrédited for Chloride.

Chemist

Date



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/07/10 Reporting Date: 01/08/10

Project Number: 24511 (BOPCO, LP)

Project Name: COBB FEDERAL #1

Project Location: EDDY CO., NM

Analysis Date: 01/08/10 Sampling Date: 01/06/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5.5°C

Sample Received By: JH

Analyzed By: HM

		CI			
LAB NO.	SAMPLE ID	(mg/kg)			
H19000-11	SB-6 @ 5'	432			
H19000-12	SB-6 @ 15'	304			
H19000-13	SB-6 @ 25'	704			
H19000-14	SB-6 @ 35'	7,520			
H19000-15	SB-6 @ 45'	4,320			
H19000-16	SB-6 @ 55'	5,760			
H19000-17	SB-6 @ 60'	8,560			
H19000-18	SB-6 @ 65	13,400			
H19000-19	SB-6 @ 70'	12,400			
Quality Conf	rol	510			
True Value (QC	500			
% Recovery	% Recovery				
Relative Per	cent Difference	2.0			

<u></u>	-
METHOD: Standard Methods	4500-CI'B

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING ATTN: CAMILLE BRYANT

2800 PLAINS HWY LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/07/10

Project Number: BOPCO, LP (24 511) Project Name: COBB FEDERAL #1

Reporting Date: 01/08/10

Project Location: EDDY CO., NM

Sampling Date: 01/05/10 & 01/06/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5.5°C

Sample Received By: JH

Analyzed By: AB/ZL

LAB NO. SAMPLE ID

GRO DRO

DRO ext.

ETHYL

TOTAL

 (C_6-C_{10}) (>C10-C28) (>C28-C35) BENZENE TOLUENE BENZENE XYLENES (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE:	01/07/10	01/07/10	01/07/10	01/08/10	01/08/10	01/08/10	01/08/10
H19000-1 SB-5 @ 5'	<10.0		<10.0			<0.050	<0.300
H19000-11 SB-6 @ 5'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
			***************************************		##### ################################		
			······································				
Quality Control	450	443		0.048	0.047	0.049	0.135
True Value QC	500	500	-	0.050	0.050	0.050	0.150
% Recovery	90.0	88.6		96.0	94.0	98.0	90.0
Relative Percent Difference	5.1	10.3	-	2.0	2.1	2.0	2.6

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight. Not accredited for GRO/DRO/DRO ext.

01/13/10



en 1 . 2

(575) 393-2326 Fax (575) 393-2476	Page_/or						
Company Name: BASIN FOY CONSULTING	BILL TO	ANALYSIS REQUEST					
Project Manager: Camille Bryant	P.O.#: 24 511						
Address: 2800 Plains Hold	Company: BOPCO, LP						
city: Laving for state: 1/1 Mzip: 882/00	Attn: Thy a SAVOIR						
Phone # 5 +5 (005 - 7210 Fax # (575) 396 - 1429	Address:	X tendre					
Project #: 24 511 Project Owner: PORC LD	City:						
Project Name: Cobb Federal #1	State: Zip:	200					
Project Location: ECCUS CO, MM	Phone #:						
Sampler Name: Canalle Businet	Fax #:						
MATRIX COUNTY C	1 1 5 1400 1 5 1420 1 5 1500 1 6 0840	XXXXX Chloricle L X TOH BOISM X BTEY 80.21B					
-658-5055 -758-5065	116/000						
-7 515-5 C 65	16 1030						
-9 5B-50 45'	11/1/30	x					
-m 5B-5 c 80'	1 16 1300						
PLEASE NOTE: Liability and pamages, Cardina's liability and client's exclusive remedy for any claim arising whether base analyses. At claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and receive service. In no event shall Cardinal be liable for incidental or consequental damages, including without imitation, business interruptions, loss of us affiliation or successors entry gut at or related to the performance of services between by Cerdinal, togethese of whether such claim is base.	ed by Cardinal within 30 days after completion of the applicabl use, or lose of profits incurred by cherk, its substitlaties,	16					
Relinquished By: Date: 10 Received By:	Phone Res Fax Result REMARKS	t: 🗆 No Add'l Fax #:					
Delivered By: (Circle One) Timd: 25 Temp Sample Condition							
Sampler - UPS - Bus - Other: Sampler - UPS - Bus - Other: Supplementary Supplementary	s (hitials)						

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



(575) 393-2326 Fax (5 <u>7</u> 5) 393-2476		Pageof
Company Name: BASIN, ENV CONSULTING	BILL TO	ANALYSIS REQUEST
Project Manager: CAMILE Bruch	P.O.#: 24511	
Address: 2800 PAINS LOW	Company: BOPCO, LF	5x tonda
city: Lovinsian state: nm zip: 88260	Attn: Tong SAVOIC	e 9
Phone #: 575 - 605 - 7210 Fax #: 575 396 1429	Address:	
Project #: 3+5 Project Owner: BOPCO, UP	City:	
Project Name: COBB FOLUTED #1	State: Zip:	205
Project Location: Eddy Co. NM	Phone #:	
Sampler Name: (GMI) & Sirvaid	Fax #:	
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE SLUDGE	PRESERV. SAMPLING ACIDIO ACIDIO BATE TIMI	Chloride 46 TPH 8615 M Brex 8021 B
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-15 SB-6 C 45'	13	550 X
-16 5B-6 6 55'	141	20 }
17 5B-6 @ 60'	148	56 X
-18 513-Le 65'	153	20 X
-19 SB-6 & 70' VV V	150	570 X
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PLEASE NOTE: Libility and Damages, Cardinars libility and clients exclusive remedy for any claim arising whether base analyses. All claims including those for negligence and any other cause measured and be deemed waived unless made in willing and receive service. In no event areal Coulinal be fields for incidental or consequental damages, including without limitation begins a framapters, loss of us	d by Cardinal within 30 days after completion of the ep	pplicatio
efficies or successors arising out of or related to the performance of services hereunder by Cardina, (equatives of whether such claim is based	d upon any of the above stated reasons or otherwise.	
Sampler Relinquished: Date: 710 Received By:	Fax Re	e Result:
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



January 19, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: Cobb Federal #1 (24511 BOPCO)

Enclosed are the results of analyses for sample number H19002, received by the laboratory on 01/07/10 at 10:25 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 6 (includes Chain of Custody)

Sincerely

Celey D/Reene Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING ATTN: CAMILLE BRYANT P.O. BOX 381 LOVINGTON, NM 88260

Receiving Date: 01/07/10 Reporting Date: 01/19/10

Project Owner: BOPCO (24511)
Project Name: COBB FEDERAL #1
Project Location: EDDY COUNTY, NM

Sampling Date: 01/04/10 - 01/05/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5.5°C

Sample Received By: JH

Analyzed By: JM

TOTAL METALS

LAB NO.	SAMPLE ID	As	Mg	K
		(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS	DATE:	01/18/10	01/18/10	01/18/10
H19002-1	SB-2 @ SURFACE	10.8	3,170	701
H19002-2	SB-2 @ 5'	<10.0	8,900	730
H19002-3	SB-2 @ 35'	<10.0	7,110	1,060
H19002-4	SB-2 @ 40'	16.0	18,800	1,330
H19002-5	SB-2 @ 45'	<10.0	6,740	684
H19002-6	SB-2 @ 50'	11.2	12,300	884
H19002-7	SB-3 @ SURFACE	<10.0	7,290	1,030
H19002-8	SB-3 @ 5'	<10.0	4,150	455
H19002-9	SB-3 @ 50'	<10.0	9,930	1,610
H19002-10	SB-3 @ 55'	12.1	14,800	1,490
H19002-11	SB-3 @ 60'	13.9	16,600	1,990
H19002-12	SB-4 @ 25'	11.9	3,660	452
H19002-13	SB-4 @ 60'	<10.0	7,960	927
Quality Cor	itrol	5.05	4.95	10.5
True Value	QC	5.00	5.00	10.0
% Recovery	/	101	99	105
Relative Sta	andard Deviation	0.4	1.4	0.5

METHODS: EPA 600/4-91/010 6010 6010 6010 6010 Analyses subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.

Reported on wet weight.

H19002M BASIN



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING ATTN: CAMILLE BRYANT P.O. BOX 381 LOVINGTON, NM 88260

Receiving Date: 01/07/10 Reporting Date: 01/19/10

Project Owner: BOPCO (24511)
Project Name: COBB FEDERAL #1
Project Location: EDDY COUNTY, NM

Sampling Date: 01/05/10 - 01/06/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5.5°C

Sample Received By: JH

Analyzed By: JM

TOTAL METALS

(mg/kg) 0 01/18/10 7 18,400 0 13,000 3 15,800 0 6,670	(mg/kg) 01/18/10 1,420 1,350 1,010 752
18,400 13,000 3 15,800 0 6,670	1,420 1,350 1,010
18,400 13,000 3 15,800 0 6,670	1,420 1,350 1,010
13,000 3 15,800 0 6,670	1,350 1,010
3 15,800 0 6,670	1,010
0 6,670	
	752
	102
0 5,100	1,150
1 18,100	1,290
0 3,260	630
0 9,770	1,200
0 6,260	887
0 18,000	985
0 6,990	1,570
4 11,000	1,220
0 2,870	748
0 9.52	25.1
0 10.0	25.0
0 95.2	100
1 0.2	<0.1
	0 9,770 0 6,260 0 18,000 0 6,990 4 11,000 0 2,870 0 9.52 0 10.0 0 95.2

METHODS: EPA 600/4-91/010 6010 6010 6010 Analyses subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.

Reported on wet weight.

Chemist

Date

01/12/10



(675) 393-2326 Fax (575) 393-2476

Page 1 of 3

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† Cardinal c	annot accept verbal ch	anges. Please fax	writt	en c	hanges to	575-393	-2476. (

	(575) 393-2326 Fax (575) 393-24	176		Pageof
Company Name:	BASIN ENV. CE	WSULTING	BILLTO	ANALYSIS REQUEST
Project Manager:	Commune BR	yart '	P.O.#: 24511	
Address: Z	See PLAINS A	<u> </u>	Company: BOPCO	
City: [[]	USTON State: NW	(Zip: 88260	Attn: TONY SAVOLE	
Phone #: 57	5-605-7210Fax#: 575	5-396-1429	Address:	
Project#:	Project Owner	BOPCO	City:	
Project Name:	COBB. FEDER	六८ ^北	State: Zip:	
Project Location:	ERON COUNTY	NM	Phone #:	- W
Sampler Name	Dan tou C!	S. BRYANT	Fax #:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FOR LAS USE ONLY	30	MATRIX	PRESERV. SAMPLING	
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Lab I.D.	Sample I.D.		ASE.	
	•	(G)RAB OR (C)OI # CONTAINERS GROUMDWATER WASTEWATER SOIL OIL	ACID/BASE: OTHER: OTHER: THER: OTHER:	
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71	53-4025'	1911-	1 1/4 1720	
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PLEASE NOTE: HIDDING	53-5675 nd pamages. Cardinars liability and client's exclusive rema	LVIVI V	N N 130	
analyses. At claims industing	those for negligence and any other cause whatsoever shall be deen find be liable for incidental or consequental damages, including with	viecon this goldnarni eticm eseinu beview ter	ed by Cardinal within 30 days after completion at the applica	
	out of or related to the partormance of services herounder by Card			lesult:
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Sampler - UPS -	Bus - Other:	550日 No 日 No	: <i>WHX</i>	

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



Page 3 of 3

(575) 393-2326 Fax (575) 393-2476				Page or		
Company Name:	BASIN ENV. CO	NSULTING	BILL 70	ANALYSIS REQUEST		
Project Manager:	CAMBLE BR	1ATUT	P.O.#: 24511			
Address: 2800 PLAINS ALLY			Company: BOPCO			
City: (DUINGTON) State: NM Zip: 88260 Attr			Attn: TONY SALVOLE			
Phone #: 575-605-7210 Fax #: 575-396-14-29 Address:						
Project #: 24511 Project Owner: 130PCO City:						
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sorvice. In no overk styld Cartinel be liable for incidental or consequents il dumages, including without limitation, business insumptions, loss of vale, or take of profits from our business of cartiness of the performance of services hargeridess of whether such claim is based upon any of the above stoked reasons or otherwise.						
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



January 13, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: BOPCO 24 511 (Cobb Federal #1)

Enclosed are the results of analyses for sample number H19019, received by the laboratory on 01/08/10 at 4:55 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely

Celey D. Keene Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/08/10

Reporting Date: 01/11/10
Project Number: 24511 (BOPCO, LP)

Project Name: COBB FEDERAL #1

Project Location: EDDY CO., NM

Analysis Date: 01/11/10

Sampling Date: 01/08/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5°C

CIT

Sample Received By: JH

Analyzed By: HM

		Cl
LAB NO.	SAMPLE ID	(mg/kg)
H19019-1	NORTHWEST S/W @ 10'	256
H19019-2	NORTHEAST S/W 10'	1,220
H19019-3	WEST S/W @ 10'	4,600
H19019-4	EAST S/W @ 10'	9,900
H19019-5	SOUTH S/W @ 10'	8,500
H19019-6	NORTHWEST CORNER @10'	192
H19019-7	NORTHEAST CORNER @ 10'	3,680
H19019-8	SOUTHWEST CORNER @ 10'	896
H19019-9 SOUTHEAST CORNER @ 10'		6,900
Quality Cor	ntrol	510
True Value QC		500
% Recover	102	
Relative Pe	rcent Difference	2.0

METHOD: Standard Methods

4500-CIB

01/13/10

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited/for Chloride.

Chemişt

Date



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING

ATTN: CAMILLE BRYANT

2800 PLAINS HWY LOVINGTON, NM 88260 FAX TO: (575) 396-1429

GRO

Receiving Date: 01/08/10 Reporting Date: 01/12/10

Project Number: 24511 (BOPCO, LP)
Project Name: COBB FEDERAL #1

Project Name: COBB FEDERAL #
Project Location: EDDY CO., NM

Sampling Date: 01/08/10 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5°C

ETHYL

TOTAL

Sample Received By: JH Analyzed By: AB/ZL

 $(C_6 - C_{10})$ (>C10-C28) (>C28-C35) BENZENE TOLUENE BENZENE XYLENES LAB NO. SAMPLE ID (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) ANALYSIS DATE: 01/11/10 01/11/10 01/11/10 01/11/10 01/11/10 01/11/10 01/11/10 H19019-1 NORTHWEST S/W @ 10' < 0.050 < 0.300 <10.0 <10.0 < 0.050 0.065 <10.0 < 0.050 < 0.050 < 0.300 H19019-2 NORTHEAST S/W @ 10' <10.0 <10.0 <10.0 < 0.050 H19019-3 WEST S/W @ 10' <10.0 <10.0 <10.0 < 0.050 < 0.050 < 0.050 < 0.300 < 0.050 <10.0 <10.0 <0.050 < 0.050 < 0.300 H19019-4 EAST S/W @ 10' <10.0 <0.300 <10.0 <10.0 < 0.050 < 0.050 < 0.050 H19019-5 SOUTH S/W @ 10' <10.0 <10.0 <10.0 <10.0 < 0.050 <0.050 < 0.050 < 0.300 H19019-6 NORTHWEST CORNER @ 10' < 0.050 < 0.300 <10.0 <10.0 <10.0 < 0.050 < 0.050 H19019-7 NORTHEAST CORNER @ 10' < 0.300 H19019-8 SOUTHWEST CORNER @ 10' <10.0 <10.0 <10.0 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.300 <10.0 <10.0 <10.0 < 0.050 H19019-9 SOUTHEAST CORNER @ 10'

550

500

110

1.8

DRO

DRO ext.

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight. Not accredited for GRO/DRO/DRO ext.

501

500

100

5.0

Lab Director

Quality Control

True Value QC

Relative Percent Difference

% Recovery

H19019 TPHextBTEX BASIN

Date

0.048

0.050

96.0

4.1

0.048

0.050

96.0

4.2

0.049

0.050

98.0

4.0

0.151

0.150

101

3.2



101 East Marland, Hobbs, NM 88240										
(575) 393-2326 Fax (575) 393-2476		Page 1 of 1								
Company Name: ASIN EN CONSULTING	BILL TO	ANALYSIS REQUEST								
Project Managor: Camille Bryant	P.O. #: 24.511									
Address: 2800 flams Hilly	Company: BOPCO									
city: LOVINATON State: MZIp: 89260	Attn: TONG Savore									
Phone #: 575 405 - 7210 Fax #: 575/396 - 1429	Address:									
Project #: 245// Project Owner: BOPCO, LP	City:									
Project Name: (W) Seederal #1	State: Zip:	SOU								
Project Location: Police Con D.W	Phone #:	121 2 7 1 1 1 1 1 1 1								
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FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING									
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-7 Portheast Cornure 10'	1310		*							
3 Suthwest (brove 10')	1320									
-a Southeast Cornera 101 VV	1330	⁾								
LEASE NOTE: clability and Damages. Carolnars Hability and client's exclusive remedy for any claim arising whether bas	ed in contract or tort, shall be limited to the amou	ount paid by the client for the								
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Iterates or aucressors is using out of or related to the performance of services because by Cordinal, regardless of whether such claim is pass. Sompton Relinquished: Date Received By:	ed upon any of the above stated reasons or otherwise. Phone Re	Result: No Add'l Phone #:								
Com 100 By 110 1178/10	Fax Resul	ult: No Add'l Fax #:								
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Sampler - UPS - Bus - Other:	5 1									

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-24760



January 22, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: Cobb Federal #1 (BOPCO 24511)

Enclosed are the results of analyses for sample number H19090, received by the laboratory on 01/19/10 at 8:30 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Mcthod SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 14 (includes Chain of Custody)

Sincerely.

Celey D./Keene Laboratory Director



Receiving Date: 01/19/10 Reporting Date: 01/20/10

Project Number: BOPCO (24511) Project Name: COBB FEDERAL #1

Project Location: EDDY CO., NM

Sampling Date: 01/11/10 - 01/15/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4 °C

Sample Received By: JH

Analyzed By: ZL

	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
LAB NUMBE SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	01/19/10	01/19/10	01/19/10	01/19/10
H19090-1 SB-7 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-12 SB-8 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-22 SB-9 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-28 SB-11 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-38 SB-12 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-49 SB-13 @ 5'	<0.050	<0.050	<0.050	<0.300
Quality Control	0.050	0.051	0.052	0.153
True Value QC	0.050	0.050	0.050	0.150
% Recovery	100	102	104	102
Relative Percent Difference	2.0	1.9	1.9	5.8

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES. Reported on wet weight.

Date



Receiving Date: 01/19/10 Reporting Date: 01/21/10

Project Owner: BOPCO (24511)
Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

Sampling Date: 01/11/10 - 01/15/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: AB

	GRO	DRO	DRO ext.
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	(>C ₂₈ -C ₃₅)
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE	01/20/10	01/20/10	01/20/10
H19090-1 SB-7 @ 5'	<10.0	<10.0	<10.0
H19090-12 SB-8 @ 5'	<10.0	<10.0	<10.0
H19090-22 SB-9 @ 5'	<10.0	<10.0	<10.0
H19090-28 SB-11 @ 5'	<10.0	<10.0	<10.0
H19090-38 SB-12 @ 5'	<10.0	<10.0	<10.0
H19090-49 SB-13 @ 5'	<10.0	<10.0	<10.0
Quality Control	491	426	And State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of
True Value QC	500	500	-
% Recovery	98.2	85.2	-
Relative Percent Difference	1.1	9.6	-

METHODS: TPH GRO & DRO: EPA SW-846 8015 M extended Reported on wet weight. Not accredited for GRO/DRO/DRO Ext.

Lab Director

01/22/10 Date

H19090 TPHEXT BASIN



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC ATTN: CAMILLE BRYANT P.O. BOX 381 LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/19/10

Reporting Date: 01/21/10

Project Number: 24511 (BOPCO, LP)

Project Name: COBB FEDERAL #1
Project Location: EDDY COUNTY, NM

Analysis Date: 01/20/10

Sampling Date: 01/11/10 & 01/12/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19090-1	SB-7 @ 5'	32
H19090-2	SB-7 @ 15'	272
H19090-3	SB-7 @ 25'	432
H19090-4	SB-7 @ 30'	7,040
H19090-5	SB-7 @ 35'	11,000
H19090-6	SB-7 @ 45'	6,080
H19090-7	SB-7 @ 55'	5,280
H19090-8	SB-7 @ 60'	8,800
H19090-9	SB-7 @ 65'	2,960
H19090-10	SB-7 @ 70'	1,880
H19090-11	SB-7 @ 75'	12,400
H19090-12	SB-8 @ 5'	560
H19090-13	SB-8 @ 15'	240
Quality Cont	ol	500
True Value C)C	500
% Recovery		100
Relative Per	cent Difference	<0.1

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

Chemist

Date

01/22/10



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC ATTN: CAMILLE BRYANT P.O. BOX 381 LOVINGTON, NM 88260

FAX TO: (575) 396-1429

Receiving Date: 01/19/10

Reporting Date: 01/21/10

Project Number: 24511 (BOPCO, LP)

Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

Analysis Date: 01/20/10

Sampling Date: 01/12/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19090-14	SB-8 @ 25'	288
H19090-15	SB-8 @ 35'	80
H19090-16	SB-8 @ 45'	48
H19090-17	SB-8 @ 55'	32
H19090-18	SB-8 @ 65'	32
H19090-19	SB-8 @ 75'	32
H19090-20	SB-8 @ 80'	. 48
H19090-21	SB-8 @ 85'	48
H19090-22	SB-9 @ 5'	1,140
H19090-23	SB-9 @ 15'	144
H19090-24	SB-9 @ 20'	192
H19090-25	SB-10 @ 5'	1,360
H19090-26	SB-10 @ 15'	416
H19090-27	SB-10 @ 20'	224
Quality Cont	rol	500
True Value (True Value QC	
% Recovery	% Recovery	
Relative Per	cent Difference	<0.1

4500-Cl'B METHOD: Standard Methods

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

Date

H19090 Basin Environmental



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/19/10 Reporting Date: 01/21/10

Project Number: 24511 (BOPCO, LP)

Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

Analysis Date: 01/20/10 & 01/21/10 Sampling Date: 01/13/10 & 01/15/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19090-28	SB-11 @ 5'	16
H19090-29	SB-11 @ 15'	208
H19090-30	SB-11 @ 25'	208
H19090-31	SB-11 @ 35'	96
H19090-32	SB-11 @ 45'	64
H19090-33	SB-11 @ 55'	32
H19090-34	SB-11 @ 65'	96
H19090-35	SB-11 @ 70'	7,000
H19090-36	SB-11 @ 75'	976
H19090-37	SB-11 @ 80'	3,440
H19090-38	SB-12 @ 5'	48
H19090-39	SB-12 @ 15'	208
H19090-40	SB-12 @ 25'	240
Quality Cont	rol	500
True Value (JC .	500
% Recovery		100
Relative Per	cent Difference	< 0.1

METHOD: Standard Methods 4500-Cl B

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

hemist

Date

01/22/10

H19090 Basin Environmental



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/19/10
Reporting Date: 01/21/10

8: U1/21/1U ar: 24511 (BC

Project Number: 24511 (BOPCO, LP)
Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

Analysis Date: 01/21/10

Sampling Date: 01/15/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: HM

CI ng/kg

LAB NO.	SAMPLE ID	(mg/kg)
H19090-41	SB-12 @ 35'	48
H19090-42	SB-12 @ 45'	128
H19090-43	SB-12 @ 55'	144
H19090-44	SB-12 @ 65'	4,000
H19090-45	SB-12 @ 75'	2,640
H19090-46	SB-12 @ 80'	5,680
H19090-47	SB-12 @ 85'	2,680
H19090-48	SB-12 @ 90'	992
H19090-49	SB-13 @ 5'	144
H19090-50	SB-13 @ 15'	96
H19090-51	SB-13 @ 25'	96
H19090-52	SB-13 @ 35'	96
H19090-53	SB-13 @ 45' .	80
Quality Cont	rol	500
True Value (2 C	500
% Recovery		100
Relative Per	cent Difference	< 0.1

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

Chemist

Date

01/22/10



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/19/10

Reporting Date: 01/21/10 Project Number: 24511 (BOPCO, LP)

Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

Analysis Date: 01/21/10

Sampling Date: 01/15/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: HM

CI

LAB NO.	SAMPLE ID	(mg/kg)	
H19090-54	SB-13 @ 55'	32	
H19090-55	SB-13 @ 65'	32	
H19090-56	SB-13 @ 75'	64	
H19090-57	SB-13 @ 85'	48	
H19090-58	SB-13 @ 95'	32	

44 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
Quality Con	trol	500	
}	True Value QC		
% Recovery	**************************************	100	
Relative Pe	rcent Difference	< 0.1	

4500-CIB METHOD: Standard Methods

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

Date

01/22/10



	t		1.
Page	,	of	V

(575) 393-2326 Fax (575) 393-2476														Page.	of						
Company Name: 1345/NEAN CONSULTING					BILL TO				ANALYSIS REQUEST												
Project Manager:	CAMILLE BR	M	N.		P.O.#: 2451					Ī											
Address: 28	3000 PLAINS HU	4_		ger - dags - gags - dig sought Verspellikheit der Likensen har felde name "gar	Company: BOPCO																
City: COM	VGTON State: NW	Zip	. 6	382KO	Att	ni tou	4	SKU	OIG					l							
Phone #: 575-605-7210 Fax #: 575-394-14251			Add	dress:	· 8					4											
Project #: Z	4511 Project Owner	F	₹.	PCO	Cit	y:	,			X	V		7								
Project Name:	COSS FEDERAL	عدد 	FL	namanan manimiska ayan hakila kikila kikila dan 10°2 kila (10°1 a jaya ka	Sta	ite:	Zip:			4	· ~.	! /	3								
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



Page 2 of 6

Company Name: BASINENN CONSULTING	BILL TO ANALYSIS REQUEST
Project Manager: CAMILLE BRIANT	P.O.#: 245()
Address: 2800 PLAINS HULL	Company: BOPCO
City: LOUNGTON State: 1 M Zip: 8824	O Attn: TON SHLEDIE I
Phone #: 575-605-7210 Fax #: 575-374-14	Address:
Project#: 24611 Project Owner: PSOPCO	SC
Project Name: COSS FEDERAC #	State: Zip:
Project Location: EDGY COUNTY: NM	Phone #:
Sampler Name:	Fax #:
FOR LAB USE ONLY	ATRIX PRESERV. SAMPLING
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maryses. All claims including those for negligence and any other cause websterover shall be disented waived unless made in writin sarvice. In no event shall Cardinal be fable for inclidentel or consequentel damages, including valitous limitation, business internati The property of the construction of the construction of the consequents of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the c	tions, loss of use, or loss of profile impured by client, its supplicitation,
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



Page 3 of 6

Company Name:	BASINENI CO	SUCTING	BILL TO				· · · · · · · · · · · · · · · · · · ·	ANALYSIS	REQUE	EST	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Project Manager:	CAMULE BR	pavi	P.O.#: 2451	a visiterariotelelele	T							TT
Address: 26	200 PLAINS HELL	1	Company: POP	0								
city: Last	VGTON State: NVM	Zip: 88260	Allo: LONU SHI	छाउ	l,							
Phone #: 575	5-405-7210Fax#:575	-296-1429	Address:		1	' Z						
Project#: Z	4511 Project Owner:	BUPLO	City:		S	W						
Project Name:	COSS TEDERA	#/	State: Zip:	era e i indicata esta esta esta esta esta esta esta e	1	<u></u> \ <u>2</u>	(d)					
Project Location:	Epol Courd D	Jim	Phone#:		4	POS AN	7		l			
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Lab I.D.	Sample I.D.	OR (4	H,	小					
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† Cardinal c	annot accept verbal changes. Please fax	written changes to 575-39	3-2476.					,				
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Page 4 of 6

Company Name:	BASINENY CON	K. 11	TINC.	BIL	LL 70	ANALYSIS REQUEST
Project Manager:	CAMILLE BR	アマン	rinc,	P.O.#: 25	4511	
Address: 28	200 PLAINS HU	1	1	Company:	30PCO	
City: LOUI	VGTON State: ////)	Zip: E	38260	Attn: Coul	1 Smore	
Phone #: 575	5-605-7210Fax #:575		**	Address:		
Project#: Z	4511 Project Owner:	B	SPCO!	City:		
Project Name:	COBB FEDERAZ	# i		State:	Zip:](귀 [2/의]
Project Location:	EDON COUNTY 1	JM.		Phone #:		
Sampler Name:				Fax #:		4 4 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



Page 5 of 10

(575) 393-2326 Fax (575) 393-2476									Of _	102			
Company Name: 1345/NENU CONSULTING			1811	LL 70				ANALYSIS	REQUES	ST.			
Project Manager:	CAMILLE B	2/2W	JT '	P.O.#: 2	4511								
Address: 28	2000 PLAINS HE	W/		Company: †	30PCO								
city: LOUI	UGTON State:	M Zip:	282100	Attn: Coul	1 SALOIG								
Phone #: 575	5-605-7210Fax#:5	75- 2	94-14-29	Address:		T)	N/A						
Project#: Z	.451 Project Ow	ner: ${\mathcal R}$	CPCO	City:			$ W _{A}$						
Project Name:	COBB FEDERAL	12 #	l	State:	Zip:	4550	3/5),					
Project Location:	EDO/ COULTY,	NW		Phone #:			100 V						
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FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	7	7	1					
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Page 6 of 6

Company Name:	BASINEW CO	SULTING.	BILL TO				ANA	LYSIS I	REQUES	ST.			
Project Manager:	CAMILLE BR	MYE	P.O.#: 245()										
Address: 곤영	2000 PLAINS HU	4	Company: BOP										1
city: LCUI	UGTON State: NM	Zip: 88260	Attn: Tory Ser	UIE		1							
Phone #: 575	5-605-7210Fax#:575	-396-1451	Address:			4							l
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Project Name:	COBS FEDERAL	<u>, ## </u>	State: Zip:		(4) (a)	19					. 1		1
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



January 27, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: Cobb Federal #1 (BOPCO 24511) (Revised)

Enclosed are the results of analyses for sample number H19090, received by the laboratory on 01/19/10 at 8:30 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 16 (includes Chain of Custody)

Sincerely

Laboratory Director



Receiving Date: 01/19/10 Reporting Date: 01/25/10

Project Number: BOPCO (24511)
Project Name: COBB FEDERAL #1

Project Location: EDDY CO., NM

Sampling Date: 01/12/10 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4 °C

Sample Received By: JH

Analyzed By: ZL

LAB NUMBE SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	01/22/10	01/22/10	01/22/10	01/22/10
H19090-25 SB-10 @ 5'	<0.050	<0.050	<0.050	<0.300

				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				,
Quality Control	0.041	0.041	0.042	0.125
True Value QC	0.050	0.050	0.050	0.150
% Recovery	82.0	82.0	84.0	83.3
Relative Percent Difference	4.5	4.5	2.2	3.7

METHOD: EPA SW-846 8021B

Chemist

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES. Reported on wet weight.

Date



Receiving Date: 01/19/10 Reporting Date: 01/27/10

Project Owner: BOPCO (24511)
Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

LAB NUMBER SAMPLE ID

Sampling Date: 01/12/10 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 40C

Sample Received By: JH

Analyzed By: AB

GRO DRO DRO ext. (C_6-C_{10}) $(>C_{10}-C_{28})$ $(>C_{28}-C_{35})$ (mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE	01/25/10	01/25/10	01/25/10
H19090-25 SB-10 @ 5'	<10.0	42.7	<10.0
	mari e animari		
Quality Control	499	479	
True Value QC	500	500	-
% Recovery	99.8	95.8	-
Relative Percent Difference	7.5	6.5	majororage;sseeme (t. 14) promider (MT 1) st

METHODS: TPH GRO & DRO: EPA SW-846 8015 M extended Reported on wet weight. Not accredited for GRO/DRO/DRO Ext.

Lab Director

01/27/10 Date



Receiving Date: 01/19/10 Reporting Date: 01/20/10

Project Number: BOPCO (24511) Project Name: COBB FEDERAL #1

Project Location: EDDY CO., NM

Sampling Date: 01/11/10 - 01/15/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4 °C

Sample Received By: JH

Analyzed By: ZL

LAB NUMBE SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	01/19/10	01/19/10	01/19/10	01/19/10
H19090-1 SB-7 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-12 SB-8 @ 5'	<0.050	<0.050	<0.050	< 0.300
H19090-22 SB-9 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-28 SB-11 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-38 SB-12 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-49 SB-13 @ 5'	<0.050	<0.050	<0.050	<0.300
Quality Control	0.050	0.051	0.052	0.153
True Value QC	0.050	0.050	0.050	0.150
% Recovery	100	102	104	102
Relative Percent Difference	2.0	1.9	1.9	5.8

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES. Reported on wet weight.

Date



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING ATTN: CAMILLE BRYANT 2800 PLAINS HWY LOVINGTON, NM 88260

FAX TO: (575) 396-1429

Receiving Date: 01/19/10

Sampling Date: 01/11/10 - 01/15/10

Reporting Date: 01/21/10

Sample Type: SOIL

Project Owner: BOPCO (24511)
Project Name: COBB FEDERAL #1

Sample Condition: COOL & INTACT @ 40C

Project Name: COBB FEDERAL #1
Project Location: EDDY COUNTY, NM

LAB NUMBER SAMPLE ID

Sample Received By: JH

Analyzed By: AB

GRO DRO DRO ext. (C_6-C_{10}) (> $C_{10}-C_{28}$) (> $C_{28}-C_{35}$) (mg/kg) (mg/kg) (mg/kg)

1 ANIAL VOICE	^ TE	04/00/40	04/00/40	04/00/40
ANALYSIS D	AIE	01/20/10	01/20/10	01/20/10
H19090-1	SB-7 @ 5'	<10.0	<10.0	<10.0
H19090-12	SB-8 @ 5'	<10.0	<10.0	<10.0
H19090-22	SB-9 @ 5'	<10.0	<10.0	<10.0
H19090-28	SB-11 @ 5'	<10.0	<10.0	<10.0
H19090-38	SB-12 @ 5'	<10.0	<10.0	<10.0
H19090-49	SB-13 @ 5'	<10.0	<10.0	<10.0
	empir krysmininkus. – pyrinklikas krysmininka (pympinkusan <mark>kkyrom</mark> aninkus yrinkalana) syka			
Quality Contro	ol	491	426	_
True Value Q	С	500	500	_
% Recovery		98.2	85.2	-
Relative Perc	ent Difference	1.1	9.6	-

METHODS: TPH GRO & DRO: EPA SW-846 8015 M extended Reported on wet weight. Not accredited for GRO/DRO/DRO Ext.

Lab Director

Date

H19090 TPHEXT BASIN



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC ATTN: CAMILLE BRYANT P.O. BOX 381 LOVINGTON, NM 88260

FAX TO: (575) 396-1429

Receiving Date: 01/19/10

Reporting Date: 01/21/10

Project Number: 24511 (BOPCO, LP)

Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

Analysis Date: 01/20/10

Sampling Date: 01/11/10 & 01/12/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: HM

		Cl
LAB NO.	SAMPLE ID	 (mg/kg)
H19090-1	SB-7 @ 5'	32
H19090-2	SB-7 @ 15'	272
H19090-3	SB-7 @ 25'	432
H19090-4	SB-7 @ 30'	7,040
H19090-5	SB-7 @ 35'	11,000
H19090-6	SB-7 @ 45'	6,080
H19090-7	SB-7 @ 55'	5,280
H19090-8	SB-7 @ 60'	8,800
H19090-9	SB-7 @ 65'	2,960
H19090-10	SB-7 @ 70'	1,880
H19090-11	SB-7 @ 75'	12,400
H19090-12	SB-8@5'	560
H19090-13	SB-8 @ 15'	240
Quality Cont	rol	500
True Value (QC	500
% Recovery		100
Relative Per	cent Difference	<0.1

METHOD: Standard Methods 4500-Cl'B

Note: Analyses performed on 1:4 w:v aqueous extracts. Not acordited for Chloride.

Chemist

Date

01/2410



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/19/10 Reporting Date: 01/21/10

Date: 01/21/10

Project Number: 24511 (BOPCO, LP)
Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

Analysis Date: 01/20/10 Sampling Date: 01/12/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: HM

CI

LAB NO.	SAMPLE ID	(mg/kg)
H19090-14	SB-8 @ 25'	288
H19090-15	SB-8 @ 35'	80
H19090-16	SB-8 @ 45'	48
H19090-17	SB-8 @ 55'	32
H19090-18	SB-8 @ 65'	32
H19090-19	SB-8 @ 75'	32
H19090-20	SB-8 @ 80'	48
H19090-21	SB-8 @ 85'	48
H19090-22	SB-9 @ 5'	1,140
H19090-23	SB-9 @ 15'	144
H19090-24	SB-9 @ 20'	192
H19090-25	SB-10 @ 5'	1,360
H19090-26	SB-10 @ 15'	416
H19090-27	SB-10 @ 20'	224
Quality Cont	rol	500
True Value (QC	500
% Recovery	100	
Relative Per	cent Difference	<0.1

METHOD: Standard Methods 4500-CITB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

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Date

H19090 Basin Environmental



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/19/10 Reporting Date: 01/21/10

Project Number: 24511 (BOPCO, LP)

Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

Analysis Date: 01/20/10 & 01/21/10

Sampling Date: 01/13/10 & 01/15/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: HM

		Cl
LAB NO.	SAMPLE ID	(mg/kg)
H19090-28	SB-11 @ 5'	16
H19090-29	SB-11 @ 15'	208
H19090-30	SB-11 @ 25'	208
H19090-31	SB-11 @ 35'	96
H19090-32	SB-11 @ 45'	64
H19090-33	SB-11 @ 55'	32
H19090-34	SB-11 @ 65'	96
H19090-35	SB-11 @ 70'	7,000
H19090-36	SB-11 @ 75'	976
H19090-37	SB-11 @ 80'	3,440
H19090-38	SB-12 @ 5'	48
H19090-39	SB-12 @ 15'	208
H19090-40	SB-12 @ 25'	240
Quality Cont	rol	500
True Value	JC	500
% Recovery		100
Relative Per	cent Difference	< 0.1

METHOD: Standard Methods	4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

Date

01/22/10



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/19/10 Reporting Date: 01/21/10

Project Number: 24511 (BOPCO, LP)

Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

Analysis Date: 01/21/10 Sampling Date: 01/15/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19090-41	SB-12 @ 35'	48
H19090-42	SB-12 @ 45'	128
H19090-43	SB-12 @ 55'	144
H19090-44	SB-12 @ 65'	4,000
H19090-45	SB-12 @ 75'	2,640
H19090-46	SB-12 @ 80'	5,680
H19090-47	SB-12 @ 85'	2,680
H19090-48	SB-12 @ 90'	992
H19090-49	SB-13 @ 5'	144
H19090-50	SB-13 @ 15'	96
H19090-51	SB-13 @ 25'	96
H19090-52	SB-13 @ 35'	96
H19090-53	SB-13 @ 45'	80
Quality Cont	irol	500
True Value	JC .	500
% Recovery		100
Relative Per	rcent Difference	< 0.1

4500-CIB METHOD: Standard Methods

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

Date



ANALYTICAL RESULTS FOR
BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381 LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/19/10

Reporting Date: 01/21/10
Project Number: 24511 (BOPCO, LP)

Project Name: COBB FEDERAL #1

Project Location: EDDY COUNTY, NM

Analysis Date: 01/21/10 Sampling Date: 01/15/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: HM

		CI			
LAB NO.	SAMPLE ID	(mg/kg)			
H19090-54	SB-13 @ 55'	32			
H19090-55	SB-13 @ 65'	32			
H19090-56	SB-13 @ 75'	64			
H19090-57	SB-13 @ 85'	48			
H19090-58	SB-13 @ 95'	32			
Quality Cont	rol	500			
True Value (True Value QC				
% Recovery		100			
Relative Per	cent Difference	< 0.1			

METHOD: Standard Methods	4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

Chemist

Date



/676) 303 2326 Env /676) 202 2476

Page_1 of 6

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Company Name:	DASINEW CO	SULTING	BILL TO	ANALYSIS REQUEST	
Project Manager	CAMILLE BR	40NT	P.O.#: 2451		
Address: こと	300 PLAINS HU	4	Company: BOPCC		ı
City: LOCA	UGTON State: 1\1/1	1 Zip: 882100	AMINITONI SMUDI		
Phone #: 57	5-405-7210Fax#:575	5-396-145	Address:		
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Page 3 of Le

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Company Name:	BASINENY CO	Sa	ct inc	BI	LL TO						ANAL	LYSIS	REC	QUES	T			
Project Manager:	CAMILLE BR	MAN	Jim	P.O.#: 2	451													
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	(575) 393-2326 Fax (575) 393-2	-9 (O		Page / of C2
Company Name:	LOASINEW. CO	SULTING.	BILL 70	ANALYSIS REQUEST
Project Manager	CAMILLE BR	powr	P.O.#: 24511	
Address: 근영	300 PLAINS HU	J.	Company: BOPCO	
City: LOLA	VGTON State: 1/1/	Zip: 88260	Attn: TOLL SHOLE	
Phone #: 57	5-605-7210 Fax #: 575	5-394-1429	Address:	
Project#: Z	Project Owne	BOPCO_	City:	
Project Name:	COSS FEDERA	_ #	State: Zip:	
Project Location	EDO/ COUNTY	NM	Phone #:	
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Page 5 of La

(5/5) 393-2326 Fax (5/5) 393-24/6	BILL TO	ANALYSIS REQUEST
GISTO ETOU CONSOCITOR		ANALISIS REQUEST
Project Manager: CAMILLE BRYWT	P.O.#: 2451	
Address: 2800 PLAINS HUY	Company: BOPCO	
City: LOUNGTON State: NM Zip: 88260	Attn: TON SHUBIE	
Phone #: 575-605-7210 Fax #: 575-394-1429	Address:	
Project #: Z451 Project Owner: POPCO	City:	
Project Name: COBB FEDERAC #1	State: Zip:	
Project Location: EDDY COULTY, NM	Phone #:	
Sampler Name:	Fax #:	
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 $[\]dagger$ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476. ${\cal U}$



Page 6 of 6

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Project#: Z	4511 Project Owner	BORCO	City:			1				
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



January 29, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: Cobb Federal #1 (BOPCO 24511)

Enclosed are the results of analyses for sample number H19089, received by the laboratory on 01/19/10 at 8:25 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely.

Celey D/Reene

Laboratory Director



ANALYTICAL RESULTS FOR
BASIN ENVIRONMENTAL CONSULTING
ATTN: CAMILLE BRYANT
P.O. BOX 381
LOVINGTON, NM 88260

Receiving Date: 01/19/10
Reporting Date: 01/28/10
Project Owner: BOPCO (24511)
Project Name: COBB FEDERAL #1

Project Location: EDDY CO., NM

Sampling Date: 01/14/10

Sample Type: GROUNDWATER

Sample Condition: COOL & INTACT @ 0°C

Sample Received By: JH

Analyzed By: JM

TOTAL METALS

LAB NO. SAMPLE ID

*As *Mg (mg/L)

*K (mg/L) Cl' (mg/L)

ANALYSIS DATE: 01/26/10 01/26/10 01/26/10 01/21/10 H19089-1 PROD WATER 2.50 3,630 1.500 170,000 Quality Control 5.08 4.93 10.3 500 True Value QC 500 5.00 5.00 10.0 102 100 % Recovery 98.6 103 Relative Standard Deviation 2.5 < 0.1 1.5 1.4

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*Analyses subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories,

Chemist

01/29/10 Date



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(575) 343-2326 Fax (575) 343-2476															
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Project Manager:	Commute Ber	P.O.#: 24511			7							1	1	l	
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



February 2, 2010

Camille Bryant Basin Environmental Consulting, LLC. P.O. Box 381 Lovington, NM 88260

Re: Cobb Federal #1 (BOPCO 24 511)

Enclosed are the results of analyses for sample number H19163, received by the laboratory on 01/28/10 at 9:00 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely.

Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/28/10

Reporting Date: 02/01/10

Project Number: 24 511 (BOPCO, LP)
Project Name: COBB FEDERAL #1

Project Location: EDDY CO., NM

Sampling Date: 01/26/10

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1°C

Sample Received By: JH

Analyzed By: HM

	LAB NO.	SAMPLE ID	CI ⁻ (mg/L)	TDS (mg/L)
	Analysis Date		01/31/10	01/29/10
1	H19163-1	MW-1	41,000	63,200
-	H19163-2	MW-2	134,000	215,000
,	H19163-3	MVV-3	124	773
Ì	H19163-4	MW-4	51 000	72 500

1810 4 1	71,000	00,200
MW-2	134,000	215,000
MVV-3	124	773
MW-4	51,000	72,500
MW-5	83,000	118,000
MW-6	424	1,440
	500	NR
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nt Difference		0.5
2	MW-2 MW-3 MW-4 MW-5	MW-2 134,000 MV-3 124 MW-4 51,000 MVV-5 83,000 MW-6 424

METHOD: Standard Methods, EPA 4500-CIB 160.1

Chemis

Date

H19163 Basin Environmental



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Page	of I	

(575) 393-2326 Fax (575) 393-2476			r uge_L	
Company Name: BASIN ENV. CONSULTURK	BILL TO		ANALYSIS REQUEST	r
Project Manager: (amile / Sugart	P.O.#: 245[]			
Address: 2800 flams / wy	Company: BOPCO; LF			
City: TOVINGTON State: NM Zip: 882.40	Attn: Tony Savoie			
Phone #: 575-805 7210 Fax #: 575 396-1429	Address:			
Project #: 24511 Project Owner: BOPO LP	City:			
Project Name: (obb Fecleral #/	State: Zip:	1/3		
Project Location: Edity Co; NW	Phone #:	134		
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



February 16, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: GE Cobb Federal #1 (24511 BOPCO)

Enclosed are the results of analyses for sample number H19257, received by the laboratory on 02/12/10 at 4:45 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene

Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 02/12/10

Reporting Date: 02/16/10 Project Number: 24511 (BOPCO)

Project Name: GE COBB FEDERAL #1

Project Location: EDDY CO., NM

Analysis Date: 02/16/10 Sampling Date: 02/11/10

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 3°C

Sample Received By: JH

Analyzed By: HM

CI

LAB NO.	SAMPLE ID	(mg/kg)
H19257-1	NORTHEAST S/W A @ 10'	1,060
H19257-2	SOUTHEAST CORNER A @ 10'	768
H19257-3	WEST S/W A @ 10'	672
	1779-1780-278-278-17-10-10-10-10-10-10-10-10-10-10-10-10-10-	
AND CONTRACTOR OF THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE P		
Quality Con	itrol	500
True Value	QC	500
% Recovery		100
Relative Pe	rcent Difference	< 0.1

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

	(575) 393-2326 Fax (575) 393-24	476						Page_	of	
Company Name:	GASIN, FAY CONS	seltinx	BILL 70				ANALY	SIS REQUE	ST	
Project Manager:	Camille Brian	t 0	P.O. #: 2-5/1							
Address: 280	DO Plains Hury		Company: BUPC	9						
City: LOVIV	(afon state: 194)	<u> </u>	Attn: One	Ser OIG						
Phone # 575	165-7210 Fax#575	396-1429	Address:							
Project #: 20	1511 Project Owner	BORO	City:		75					
Project Name: (GE Cobb Sudera	l #1	State: Zip:		10					
Project Location:	: Eddy Co, nm	·	Phone #:		7					
Sampler Name:	Crock Lower		Fax #:							
FOR LAS USE ONLY	0	MATRI	X PRESERV. SAMPI	.ING	2					
		M. M.			· <i>)</i>					
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Lab I.D.	Sample I.D.	TAIN VDW	ASE.		7					
		(G)RAB OR (C)O! # CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACIDIABASE: OTHER: OTHER:		e)					
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enalyses. At claims including	and Damages. Cardinars liability and client's exclusive rem- phose for negligance and any other cause whatsoever shall be deem	bna gnišiw ni ebem ezatru bavicw ban	receives by Cardinal within 30 days after compl	eldon of the applicable		lient for the				
effillates or successors wishin	rdinal be liable for incidental or consequental damages, including with g out of or related to the performence of services hereunder by Card	inal, requiritiese of whether such claim	iss of use, or loss of profile incurred by client, its is treams upon any of the above stated reasons	or athorwise.						
Sampler Relingu		Received By:		Phone Result:			Add'l Phone Add'l Fax #			
De Lou	2rux 172.4S			REMARKS:						
Relinquished By:	Que 1210	Received By:	/ 1	1						
	TIELLE	Anni.	Deu Dan							
Delivered By:	(Circle One)	Tegip. Sample Co	ndition CHECKED BY:	-						
Sampler - UPS		30 Cool Int	act (Initials) Yes No							

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Analytical Report 367139

for

Basin Environmental Consulting, LLC

Project Manager: Camille Bryant

GH Cobb Federal #1 24511

07-APR-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

lorida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295)





07-APR-10

Project Manager: Camille Bryant
Basin Environmental Consulting, LLC
P.O. Box 381
Lovington, NM 88260

Reference: XENCO Report No: 367139

GH Cobb Federal #1

Project Address: Eddy County, NM

Camille Bryant:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 367139. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 367139 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 367139



Basin Environmental Consulting, LLC, Lovington, NM

GH Cobb Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Produced Water Tank	W	Mar-24-10 10:50		367139-001
MW-2	W	Mar-24-10 13:30		367139-002

CASE NARRATIVE



Client Name: Basin Environmental Consulting, LLC

Project Name: GH Cobb Federal #1



Project ID:

24511

Report Date: 07-APR-10

Work Order Number: 367139

Date Received: 03/29/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-800413 BTEX by EPA 8021B

SW8021BM

Batch 800413, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is

suspected; data not confirmed by re-analysis

Samples affected are: 366845-004 S,366845-004 SD.

Batch: LBA-800960 TCLP Metals by SW846 6010B

SW6010B

Batch 800960, Selenium recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 367139-001, -002.

The Laboratory Control Sample for Selenium is within laboratory Control Limits

Batch: LBA-801218 TCLP Mercury by SW 7470A

SW7470A

Batch 801218, Mercury recovered above QC limits in the Matrix Spike.

Samples affected are: 367139-001, -002.

The Laboratory Control Sample for Mercury is within laboratory Control Limits

Final Ver. 1.000



Certificate of Analysis Summary 367139

Basin Environmental Consulting, LLC, Lovington, NM

Project Name: GH Cobb Federal #1



Project Id: 24511

Contact: Camille Bryant

Project Location: Eddy County, NM

Date Received in Lab: Mon Mar-29-10 08:50 am

Report Date: 07-APR-10

Project Manager: Brent Barron, II

				Project Manager:	Breit Berron, 11
	Lab Id:	367139-001	367139-002		
Analysis Requested	Field Id:	Produced Water Tank	MW-2		
Anatysis Requesteu	Depth:				
	Matrix:	WATER	WATER		
	Sampled:	Mar-24-10 10:50	Mar-24-10 13:30		
BTEX by EPA 8021B	Extracted:	Mar-30-10 08:00	Mar-30-10 08:00		
	Analyzed:	Mar-30-10 20:53	Mar-30-10 21:14		
·	Units/RL:	mg/L RL	mg/L RL		
Benzene	Cinis/Ide.	0.0798 0.0200	0.0208 0.0200		
Toluene		ND 0.0400	ND 0.0400		
Ethylbenzene		0.1028 0.0200	ND 0.0200		-
m,p-Xylenes		ND 0.0400	0.0432 0.0400		
o-Xylene		ND 0.0200	ND 0.0200		
Total Xylenes		ND 0.0200	0.0432 0.0200		
Total BTEX		0.1826 0.0200	0.0640 0.0200		
TCLP Mercury by SW 7470A	Extracted:	Apr-06-10 09:30	Apr-06-10 09:30		
	Analyzed:	Apr-06-10 16:37	Apr-06-10 16:37		
	Units/RL:	mg/L RL	mg/L RL	·	
Mercury		ND 0.0001	ND 0.0001		
TCLP Metals by SW846 6010B	Extracted:	Mar-30-10 09:00	Mar-30-10 09:00		
	Analyzed:	Mar-31-10 09:17	Mar-31-10 09:17		
	Units/RL:	mg/L RL	mg/L RL		
Lead		ND 2.22	ND 2.22		
Arsenic		ND 2.22	ND 2.22		
Cadmium		ND 0.111	ND 0.111		
Chromium		ND 0.556	ND 0.556		
Selenium		ND 2.22	ND 2.22		
Silver		ND 0.444	ND 0.444		
Barium		2.06 0.222	1.43 0.222		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brent Barron, II Odessa Laboratory Manager



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: GH Cobb Federal #1

Work Orders: 367139,

Lab Batch #: 800413

Sample: 559446-1-BKS / BKS

Project ID: 24511

Matrix: Water Batch: 1

Units: mg/L Date Analyzed: 03/30/10 07:58	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0313	0.0300	104	80-120		
4-Bromofluorobenzene	0.0278	0.0300	93	80-120		

Lab Batch #: 800413

Sample: 559446-1-BSD / BSD

Batch:

Matrix: Water

Units: mg/L	Date Analyzed: 03/30/10 08:19	SURROGATE RECOVERY STUDY					
ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes		1	[D]	}		
1,4-Difluorobenzene		0.0294	0.0300	98	80-120		
4-Bromofluorobenzene		0.0267	0.0300	89	80-120		

Lab Batch #: 800413

Sample: 559446-1-BLK / BLK

Batch:

Matrix: Water

Units: mg/L Date Analyzed: 03/30/10 09:21	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene	0.0281	0.0300	94	80-120		
4-Bromofluorobenzene	0.0272	0.0300	91	80-120		

Lab Batch #: 800413

Sample: 367139-001 / SMP

Batch: 1

Matrix: Water

Units: mg/L Date Analyzed: 03/30/10 20:53	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 800413

Sample: 367139-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 03/30/10 21:14	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: GH Cobb Federal #1

Work Orders: 367139,

Lab Batch #: 800413

Sample: 366845-004 S / MS

Project ID: 24511

Matrix: Water Batch: 1

Units: mg/L Date Analyzed: 03/30/10 21:35	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0221	0.0300	74	80-120	*

Lab Batch #: 800413

Sample: 366845-004 SD / MSD

Batch: 1

Matrix: Water

Units: mg/L Date Analyzed: 03/30/10 21:55	SU	RROGATE R	ECOVERY S	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			101		
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0225	0.0300	75	80-120	*

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



Project Name: GH Cobb Federal #1

Work Order #: 367139

Analyst: ASA

Date Prepared: 03/30/2010

Project ID: 24511
Date Analyzed: 03/30/2010

Lab Batch ID: 800413

Sample: 559446-1-BKS

Batch #: 1

Matrix: Water

Imits: mg/L BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Units				Rlank Rlank Spike Rlank Rik Spk Control Control												
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag					
Benzene	ND	0.1000	0.0824	82	0.1	0.0877	88	6	70-125	25						
Toluene	ND	0.1000	0.0832	83	0.1	0.0889	89	7	70-125	25						
Ethylbenzene	ND	0.1000	0.0848	85	0.1	0.0905	91	7	71-129	25						
m,p-Xylenes	ND	0.2000	0.1744	87	0.2	0.1855	93	6	70-131	25						
o-Xylene	ND	0.1000	0.0866	87	0.1	0.0924	92	6	71-133	25	·					

Analyst: LATCOR

Date Prepared: 04/06/2010

Date Analyzed: 04/06/2010

Lab Batch ID: 801218

Sample: 559946-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L		BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPI	ICATE 1	RECOVI	ERY STUD	Y	
TCLP Mercury by SW 7470A	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Mercury	ND	0.0010	0.0012	120	0.001	0.0011	110	9	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: GH Cobb Federal #1

Work Order #: 367139

Analyst: LATCOR

Date Prepared: 03/30/2010

Project ID: 24511

Date Analyzed: 03/31/2010

Sample: 559493-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

Lab Batch ID: 800960

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP Metals by SW846 6010B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Arsenic	ND	0.800	0.719	90	0.8	0.694	87	4	80-120	20	
Barium	ND	0.150	0.155	103	0.15	0.154	103	1	80-120	20	
Cadmium	ND	0.200	0.168	84	0.2	0.167	84	1	80-120	20 -	
Chromium	ND	0.200	0.161	81	0.2	0.160	80	1	80-120	20	
Lead	ND	1.10	0.951	86	1.1	0.948	86	0	80-120	20	
Selenium	ND	0.300	0.313	104	0.3	0.301	100	4	80-120	20	
Silver	ND	0.080	0.074	93	0.08	0.069	86	7	80-120	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: GH Cobb Federal #1



Work Order #: 367139

Project ID: 24511

Lab Batch ID: 800413

QC- Sample ID: 366845-004 S

Matrix: Water

Date Analyzed: 03/30/2010

Date Prepared: 03/30/2010

Analyst: ASA

Batch #:

Reporting Units: mo/L

Reporting Units: hg/L		íV	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Sample Spike Result Sample Spike Result Added [C] %R Added Re		Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag			
Analytes	[A]	[B]	(0)	[D]	[E]	itesum (1)	[G]	"		,,,,,,	
Benzene	ND	0.1000	0.0808	81	0.1000	0.0794	79	2	70-125	25	
Toluene	ND	0.1000	0.0810	81	0.1000	0.0806	81	0	70-125	25	
Ethylbenzene	ND	0.1000	0.0833	83	0.1000	0.0827	83	1	71-129	25	
m,p-Xylenes	ND	0.2000	0.1694	85	0.2000	0.1674	84	1	70-131	25	
o-Xylene	ND	0.1000	0.0852	85	0.1000	0.0850	85	0	71-133	25	

Lab Batch ID: 801218

QC-Sample ID: 367223-001 S

Batch #:

Matrix: Soil

Date Analyzed: 04/06/2010

Date Prepared: 04/06/2010

Analyst: LATCOR

Reporting Units: mg/L		M	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY S	STUDY		
TCLP Mercury by SW 7470A	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Mercury	ND	0.0010	0.0013	130	0.0010	0.0012	120	8	75-125	20	Х

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries

nelad

Project Name: GH Cobb Federal #1

Work Order #: 367139

Project ID: 24511

Lab Batch ID: 800960

QC- Sample ID: 366845-001 S

Batch #:

Matrix: Water

Date Analyzed: 03/31/2010

Date Prepared: 03/30/2010

Analyst: LATCOR

ATCOD

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

		17	IATKIA SEIK	E / IVLAI	KIA SI I	KE DUI LICA	IE REC	OVERI	31011		
TCLP Metals by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Barium	0.044	0.200	0.218	87	0.200	0.218	87	0	80-120	20	
Silver	ND	0.080	0.067	84	0.080	0.067	84	0	80-120	20	
Arsenic	ND	0.800	0.745	93	0.800	0.739	92	1	80-120	20	
Cadmium	ND	0.200	0.168	84	0.200	0.166	83	1	80-120	20	-
Chromium	0.328	0.200	0.500	86	0.200	0.497	85	1	80-120	20	
Lead	ND	1.10	0.912	83	1.10	0.905	82	1	80-120	20	
Selenium	ND	0.400	0.324	. 81	0.400	0.305	76	6	80-120	20	Х

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery



Project Name: GH Cobb Federal #1

Work Order #: .367139

Lab Batch #: 800960

Date Analyzed: 03/31/2010

_ _ _

Project ID: 24511

Date Prepared: 03/30/2010

/30/2010 Analyst: LATCOR

QC- Sample ID: 366845-001 D

Batch #: 1 Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Reporting Units: mg/L	SAMPLE	SAMPLE	DUPLIC	ALE REC	OVERY
TCLP Metals by SW846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	ND	ND	NC	25	
Barium	0.044	0.045	2	25	
Cadmium	ND	ND	NC	25	
Silver	ND	ND	NC	25	
Lead	ND	ND	NC	25	
Selenium	ND	ND	NC	25	
Chromium	0.328	ND	NÇ	25	

Page 14 of 15

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager:	Camille Br	yant			PAGE 01 C	OF 01									_	Pre	ojec1	t Nan	ne: <u>(</u>	SH C	obl) Fe	der	al #1					
	Company Name	Basin Envi	ronmental Co	nsultin	9.		-									_		Pr	oject	#: 2	451	1								
	Company Address:	P.O. Box 3	<u>81</u>			<u> </u>										_	F	oroje	ect Le	oc: <u>E</u>	ddy	Cou	nty, I	NM_						
	City/State/Zip:	Lovington,	NM 88260													_			PO	#:										
	Telephone No:	(575)605-72	10			<u></u>	Fax No:		(50	5) 31	6-14	129				_ F	Report	t For	rmat:		St St	ande	ird		□т	RRF	,		NPDE	ēS
	Sampler Signature	(AL	Ita.	4	pr	C.S.B	Mcontail:	•	cit	rya	int@	<u>D</u> ba	sin	-con	sulti	ng.c	<u>mo</u>					ď		\rightarrow						7
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LAB # (Reb use only)		LD CODE	I	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	10000 ea	,	HG 34 1/05₩			None Other (Specify)	ter StStudg	GW - Groundwater \$-Soli/Soll Park - Non-Potable Specify Other		TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	SAR / ESP / CEC	Metabs: As Ap Ba Cd Cr Po Hg Se	Volenies	Sertivolatiles	BTEX 8024875039 or BTEX 8260	NO RM	N.C.D.in.		RUSH TAT (pra-Rehadula) 24	۲ <u> </u>
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002		MW-2				3/24/2010	1:30		4	х		x				G	w					X			х		\perp		\perp	X
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	Basin Env.				
Date/ Time:	03-29-100 0850				
_ab ID#:	367139				
Initials:	JMF				
	Occupando Paracint (>h = = f=12=4			
	Sample Receipt (Jnecklist		(Client Initials
#1 Temper	ature of container/ cooler?	Yes	No	1.6 °C	
	container in good condition?	Yes	No		
	Seals intact on shipping container/ cooler?	Yes	No	Not Present	
	Seals intact on sample bottles/ container? / laxe!	(Yes)	No	Not Present	
	f Custody present?	(Yes)	No		
	instructions complete of Chain of Custody?	(Yes)	No		
	f Custody signed when relinquished/ received?	(FES)	No		
	f Custody agrees with sample label(s)?	200	No	ID written on Cont./ Lid	
	er label(s) legible and intact?	Ves	No	Not Applicable	
	e matrix/ properties agree with Chain of Custody?	(Yes_	No	(40c7 topiloable	
	ners supplied by ELOT?	(Vec)	No	<u> </u>	
, , , , , , , , , , , , , , , , , , ,	es in proper container/ bottle?	(AES)	No	See Below	
	es properly preserved?	(Ves)	No		
	e bottles intact?			See Balow	
		(Yes)	No		
	vations documented on Chain of Custody?	(Yes)	No		
	ners documented on Chain of Custody?	(Tes)	No	<u> </u>	
	ent sample amount for indicated test(s)?	(Yes)	No	See Below	
	nples received within sufficient hold time?	Yes	No	See Below	
	ntract of sample(s)?	Yes	(No)	Not Applicable	
#20 VOC \$	amples have zero headspace?	Yes	l No	Not Applicable	
Contact:	Contacted by:	nentation		Date/ Time:	
G 'J'					
Corrective A	ction Taken:				
Check all the	at Apply: See attached e-mail/ fax Client understands and would Cooling process had begun s	•			



June 9, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
P.O. Box 381
Lovington, NM 88260

Re: 24511 (BOPCO)

Enclosed are the results of analyses for sample number H20054, received by the laboratory on 06/08/10 at 8:20 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Total Paradaum Hadronach and

Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC

ATTN: CAMILLE BRYANT

P.O. BOX 381

LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 06/08/10
Reporting Date: 06/09/10
Project Owner: BOPCO (24511)

Project Name: GH COBB FEDERAL #1

Project Location: EDDY CO., NM

Analysis Date: 06/08/10 Sampling Date: 06/03/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: JH

Analyzed By: AB

		CI
LAB NO.	SAMPLE ID	(mg/L)
H20054-1	MVV-1	46,000
H20054-2	MVV-2	134,000
H20054-3	MVV-3	200
H20054-4	MW-4	49,500
H20054-5	MVV-5	70,000
H20054-6	MVV-6	456
Quality Con	itrol	500
True Value	QC	500
% Recover		100
Relative Pe	rcent Difference	1.9

METHOD: Standard Methods 4500-CIB

Chemist

Date



101 East Marland, Hobbs, NM 88240 Page____ of ___ (575) 393-2326 Fax (575) 393-2476 BILL TO Company Name: **ANALYSIS REQUEST** Project Manager: Company: Alln: I on a Saroie Address: 20 Project #: A Project Owner: (2) City: l-eclera Project Name: State: Zip: Š Project Location: Phone #: Sampler Name: Fax#: MATRIX PRESERV. SAMPLING FOR LAB USE ONLY 2010 WASTEWATER Lab I.D. Sample I.D. ACID/BASE OIL OTHER 뎘 DATE TIME H20054-1 3 1600 1530 N PLEASE NOTE: Clability and pamages. Cardinary liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the ansilyses. All claims including those for negligance and any other cause whatsoever shall be deemed waived unless made in witing and received by Cerdinal within 30 days after completion of the applicable service. In no event stull Cardinal be liable for incidental or consequental damages, including without landation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries. rance of services hereunder by Cardinst regardless of whether such claim is based upon any of the above stated reasons or otherwise. Phone Result: Add'l Phone #: No Received By: Fax Result: U Add'I Fax #: REMARKS: Received B Delivered By: (Circle One) Cool Intact

Sampler - UPS - Bus - Other:

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



September 23, 2010

CAMILLE BRYANT

BASIN ENVIRONMENTAL CONSULTING

P. O. BOX 381

LOVINGTON, NM 88260

RE: G H COBB FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 09/21/10 12:16.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey & Keine



Analytical Results For:

BASIN ENVIRONMENTAL CONSULTING **CAMILLE BRYANT** P. O. BOX 381 LOVINGTON NM, 88260

Fax To:

(575) 396-1429

Received:

09/21/2010

Reported:

09/23/2010

Project Name:

G H COBB FEDERAL #1

Project Number: Project Location: NONE GIVEN EDDY COUNTY, NM Sampling Date:

09/17/2010

Sampling Type:

Water

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: MW - 1 (H020891-01)

Chloride,	SM4500CI-B
-----------	------------

mg/L

Analyzed By: HM

Analyte

Result 43000

Reporting Limit 4.00

Reporting Limit

4.00

Reporting Limit

4.00

4.00

Analyzed 09/22/2010 Method Blank ND

RS 104 % Recovery 104

True Value QC 100

RPD

3.77

3.77

3.77

3.77

Qualifier

Sample ID: MW - 2 (H020891-02)

Chloride,	SM4	500C	l-B
-----------	-----	------	-----

Analyte

mg/L

140000

Analyzed By: HM

Result

Analyzed 09/22/2010 Method Blank ND

BS 104 % Recovery 104

True Value QC 100

RPD Qualifier

Chloride

Chloride

Chloride

Sample ID: MW - 3 (H020891-03)

Chloride, SM4500CI-B

mg/L

Analyzed By: HM

Analyte Result Reporting Limit 220 4.00

Method Blank ND

% Recovery

104

True Value QC 100

RPD

Qualifier

Sample ID: MW - 4 (H020891-04)

Chloride, SM4500Cl-B

Analyte

mg/L

Result

48000

Analyzed By: HM Analyzed

09/22/2010

Analyzed

09/22/2010

Method Blank

ND

BS 104

BS

104

% Recovery

104

True Value QC

100

RPD

Qualifier

Chloride

Sample ID: MW - 5 (H020891-05)

Chloride, SM4500Cl-B

mg/L

Analyzed By: HM

Analyte Chloride

Result

76000

Reporting Limit

Analyzed 09/22/2010 Method Blank ND

BS 104 % Recovery 104

True Value QC 100

RPD 3.77

Qualifier

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subskillaries, affiliates or successors arising out of or related to the performance of the services here



Analytical Results For:

BASIN ENVIRONMENTAL CONSULTING CAMILLE BRYANT P. O. BOX 381 LOVINGTON NM, 88260

Fax To:

(575) 396-1429

Received:

09/21/2010

Reported:

09/23/2010

Project Name:

G H COBB FEDERAL #1

Project Number: Project Location: NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

09/17/2010

Sampling Type:

Water

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: MW - 6 (H020891-06)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	500	4.00	09/22/2010	ND	104	104	100	3.77	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Chamages. Cardinal's liability and clearts exclusive remody for any clear course contact or tort, shall be limited to the amount poid by cleart arising, whether based in contact or tort, shall be limited to the amount poid by cleart arising, whether based in contact or tort, shall be limited to the amount poid by cleart arising or consequential damages, and are covered to the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without finitiation, business interruptions, loss of use, or loss of profits hoursed by cleart, it is substitute, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, repartless of whether such clears is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keine



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

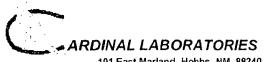
Analyte NOT DETECTED at or above the reporting limit

ND

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitesower shall be deemed wided unless made in willing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils hoursed by client, its adoldaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims beared upon any of the above stated reasons or otherwise. Results relate only to the samples identified doors. This report shall not be reproduced except in full with without approval of Cardinal Laboratories.

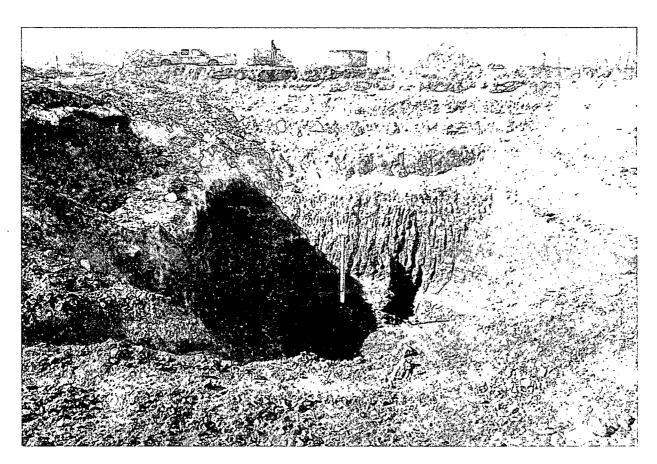
Celey & Keine



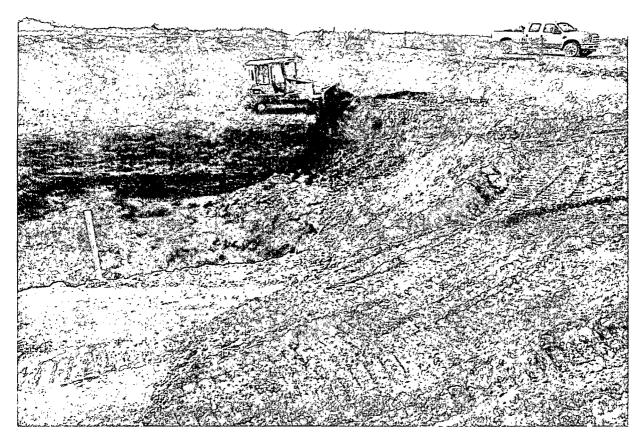
	(575) 393-2326 Fa		6 ,												Page	ə (of		
Company Name:	EDSIN ENVIRO	·····	(PC	MELLIZAN.	/	BILL	. 70						ANA	YSIS	REQI	JEST			
Project Manager:		Bruw		1.000	P.O. #:														
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

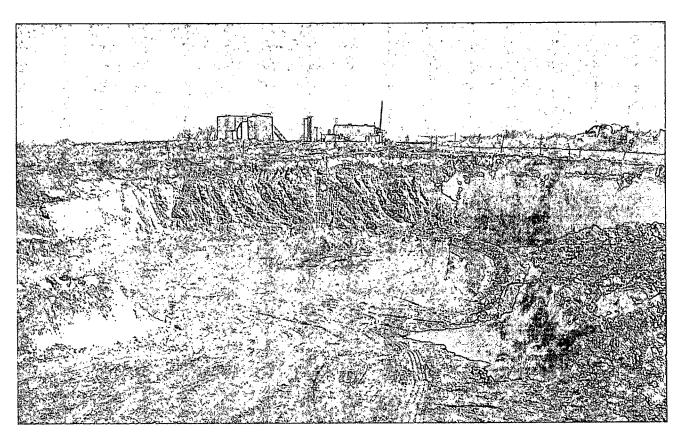
Appendix C Photographs



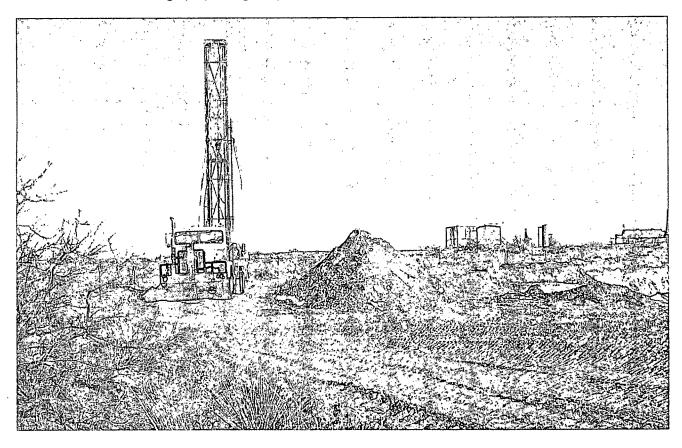
Photograph (looking East) of initial excavation with conduit riser at G.H. Cobb Federal #1.



Photograph (looking East) of backfilling activities to allow for drilling at G.H. Cobb Federal #1.



Photograph (looking East) of current excavation at G.H. Cobb Federal #1.



Photograph (looking Southeast) of drilling activities at G.H. Cobb Federal #1.

Appendix D

Release Notification &
Corrective Action (Form C-141) & Pit,
Closed-Loop System, Below-Grade
Tank, or Proposed Alternative Method
Permit or Closure Plan Application
(Form C-144)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

RECEIVED	Form C-141 d October 10, 2003
DEC -7 Submit 2 Cor	ies to appropriate ice in accordance
NMOCD ARTESIA	Rule 116 on back side of form

4. 1					.,			
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Release Notification and Corrective Action

						OPERA	ΓOR	\boxtimes	Initia	l Report		Final Report
Name of Co	mpany BO	OPCO, L.P.	26	0737		Contact Ton	y Savoie					
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220						Telephone No. 432-556-8730						
Facility Nan	ne: G.H. C	Cobb Federal	#1			Facility Type E&P						
Surface Own	nor Federa	.1		Mineral Ov	mer F	Gederal			aasa N	lo.30-015-0	15820	
Surface Own	ilet i edera			I Willicial Ov	VIICI I	cuciai			Case IV	10.30-013-0	13027	
					ΓΙΟΙ	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/Wes	t Line	County		
M	23	20S	31E							Eddy		
	l			L.				L			_	
			Latit	ıde_N 32.33'11.4	112	_ Longitude	e W 103.50'44.	304				
				NATI	JRE	OF RELI	EASE					
Type of Relea	ase: Produc	ed water, and	crude oil:				Release: Un-kno	wn V	olume R	ecovered: 0		
Source of Re	lcase: Un-li	ned evaporation	on pit			1	lour of Occurrence			Hour of Dis	covery	,
L		<u> </u>				Pre 2009		<i>7/</i>	1/09			
Was Immedia	ate Notice (Ves IX	No 🗌 Not Rec	uured	If YES, To	Whom?					-
By Whom?				The Market		Date and F	lour					
Was a Water	course Read	thed?					olume Impacting t	he Waterco	nurse	,,, ,,,,,,,,,,		
i vas a vratore	bourse reac		Yes 🛭	No		1	name impacting t	ine watered	, u. 50.			
If a Waterson	rea mes lan	pacted, Descri	ba Eully 3	<u> </u>								———
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removed	ise of Probl	em and Reme	dial Action	n Taken.* Operatio	n of tr	ie pii ceased p	orior to 7/1/09, ap	proximatel	y 4000 c	ubic yards o)f S011	nas been
Temovea												
Describe Are	a Affected	and Cleanup A	Action Tak	en.*Pasture land n	neasur	ing approxima	ately 80 ft. by 80f	ì.				
A remediatio	n closure pl	lan was submi	tted to the	NMOCD on 11/20)/09. T	he area will b	e partially backfi	lled, an air	rotary ri	g will be us	ed to c	lefine the
				t area. A complete NMOCD pit closui			sure plan will be	submitted t	based on	the results	of the	core samples.
The pit will b	e closed un	idei tile guidai	ice of the	NMOCD pit ciosui	e guiu	icinics.						1
I hereby certi	fy that the i	information gi	ven above	is true and comple	ete to t	he best of my	knowledge and u	inderstand	hat purs	uant to NM	OCD i	rules and
regulations al	I operators	are required to	report ar	nd/or file certain re	lease n	otifications a	nd perform correc	tive action	s for rele	eases which	may c	endanger
				ce of a C-141 repor investigate and rea								
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							OIL CON	SERVA	TION	DIVISIO	N	
Signature:	-	Day	P								_	
Signature.	1 eu	Sau	<u>u</u>				District Supervis			_		
Printed Name	Printed Name: Tony Savoie Signed By Will Dranuler											
							MAAD O A	2040				
Title: Waste	Mgmt.& Ro	emediation Sp	ecialist			Approval Da	te: MAR 24	ZUIU Exp	oiration .	Date:		
 F-mail Addre	ess: TASavo	oie@BassPet.e	com		Conditions of Approval:							
2 / tour					 -	-	••	CD Bules	204	Attached		
Date: 12/7/09				Phone:432-556-873	30		DIATION per O					
Attach Addit	tional She	ets If Necess	ary				. SUBMIT REM			2. K	Α-	369
PMLB 093	4455618	8					BY: Investy	etion 1	<u> </u>	<i>o</i> _/\	.,	J61
						ONGOING as	0 f 3/24/20					

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 Department Oil Conservation Division

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system; below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
0. Operator: BOPCO, L.P. OGRID #:001801
Address: P.O. Box 2760, Midland, Texas 79702
Facility or well name: G.H. Cobb Federal #1
API Number: 30-015-05829 OCD Permit Number:
U/L or Qtr/Qtr M Section 23 Township 20S Range 31E County: Eddy
Center of Proposed Design: Latitude N32°33'11.412 Longitude W103°50'44.304 NAD: 1927 1983
Surface Owner: 🔀 Federal 🗌 State 🗎 Private 🔲 Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mit LLDPE HDPE PVC Other String-Reinforced Volume: bbl Dimensions: L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
Liner Seams: Welded Factory Other
4.
Below-grade tank: Subsection 1 of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
Tank Construction material:
Secondary containment with leak detection Visible sidewalls, liner, 6-inch list and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
s. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)	hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
7.	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☐ Other ☐ Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC	
Signed in compliance with 19.15.3.103 NMAC	
9. Administrative Approvals and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau	office for
consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
[10.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC	ntabla sauna
Instructions: The applicant must demonstrate compliance for each stiing criteria below in the application. Recommendations of accepmaterial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro	priate district
office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry	<i>pproval.</i> ing pads or
above-grade tanks associated with a closed-loop system.	П v П v.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks)	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	Yes No
Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - IWATERS database search; Visual inspection (certification) of the proposed site	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	
Within 500 feet of a wetland.	Yes No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ 162 ☐ 140
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
 Within an unstable area. Engineering measures incorporated into the design; NM Burcau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:
12.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
13. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please Indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
 Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan
☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14. Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)
On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two		
facilities are required.		
Disposal Facility Name: Disposal Facility Permit Number:		
Disposal Facility Name: Disposal Facility Permit Number:		
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below) No		
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	С	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.		
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No	
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database scarch; USGS; Data obtained from nearby wells	Yes No	
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No	
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No	
Within the area overlying a subsurface mine, - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No	
 Within an unstable area, Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No	
Within a 100-year floodplain FEMA map	☐ Yes ☐ No	
18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate,		
by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC		
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC		

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19. Operator Application Certification: I hereby certify that the information submitted with this application is true.	ae, accurate and complete to the best of my knowledge and belief.	
Name (Print): Steve Johnson	Title: SR. PRoduction	
Signature:	Date: 7/1/19	
e-mail address:	Telephone: (432) 683-2277	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) COD Conditions (see attachment)		
CD Representative Signature: Approval Date:		
Title:	OCD Permit Number:	
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.		
	Closure Completion Date:	
Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	Alternative Closure Method Waste Removal (Closed-loop systems only)	
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.		
Disposal Facility Name:	Disposal Facility Permit Number:	
Disposal Facility Name:	Disposal Facility Permit Number:	
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No		
Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	operations:	
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mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site of Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)		
On-site Closure Location: Latitude		
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.		
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	

BOPCO, L.P. GH Cobb Federal #1 Section 23, T-20-S, R-31-E Eddy County, NM

API# 30-015-05829

CLOSURE PLAN

The New Mexico OCD and Bureau of Land Management were both sent notification of closure on June 15, 2009. BOPCO, L.P. will excavate to ten feet below ground surface to the bottom of the pit removing any dried sludge. The pit was unlined so no liner will need to be removed. No free liquids are presently in the pit and there is not any associated equipment in or around the pit that will need to be removed. All excavated dried sludge will be hauled and disposed of at CRI (Controlled Recovery Incorporated - Permit R-9166). BOPCO, L.P. will test the soils beneath the permanent pit to determine whether a release has occurred. BOPCO, L.P. will collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BOPCO, L.P. will notify the division of its results on form C-141 in accordance with NMAC 19.15.17.13(c) Closure method for permanent pits. If the BOPCO or the division determines that a release has occurred, then the BOPCO shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as appropriate. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (3) of Subsection C of 19.15.17.13 NMAC, then the BOPCO, L.P. will backfill the excavation with compacted, non-waste containing, earthen material; construct a divisionprescribed soil cover; recontour and re-vegetate the site. The division-prescribed soil cover, recontouring and re-vegetation requirements will comply with Subsections G, H and I of 19.15.17.13 NMAC per our Site Reclamation Plan. BOPCO, L.P. will commence closure of the site within one week of approval from the NMOCD. It will take BOPCO, L.P. approximately 2 days to excavate to ten feet and one day to sample the excavation. It will take five days to receive the results from the lab. Approximately three days to backfill the excavation and recontour the site with the existing topography. It will take one day to reseed the area. Within 60 days of closure completion, BOPCO, L.P. will submit a closure report on form C-144, with necessary attachments to document all closure activities including sampling results; information required by 19.15.17 NMAC; a plot plan; and details on back-filling, capping and covering, where applicable. In the closure report, BOPCO, L.P. will certify that all information in the report and attachments is correct and that BOPCO, L.P. has complied with all applicable closure requirements and conditions specified in the approved closure plan.