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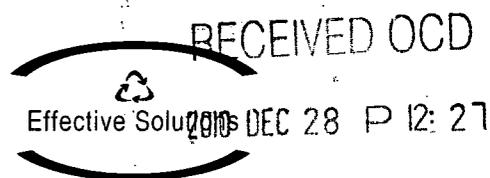
REPORT
Dec 2010

2R269

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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:

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December 2010

Joel Lowry

**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. 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 1st 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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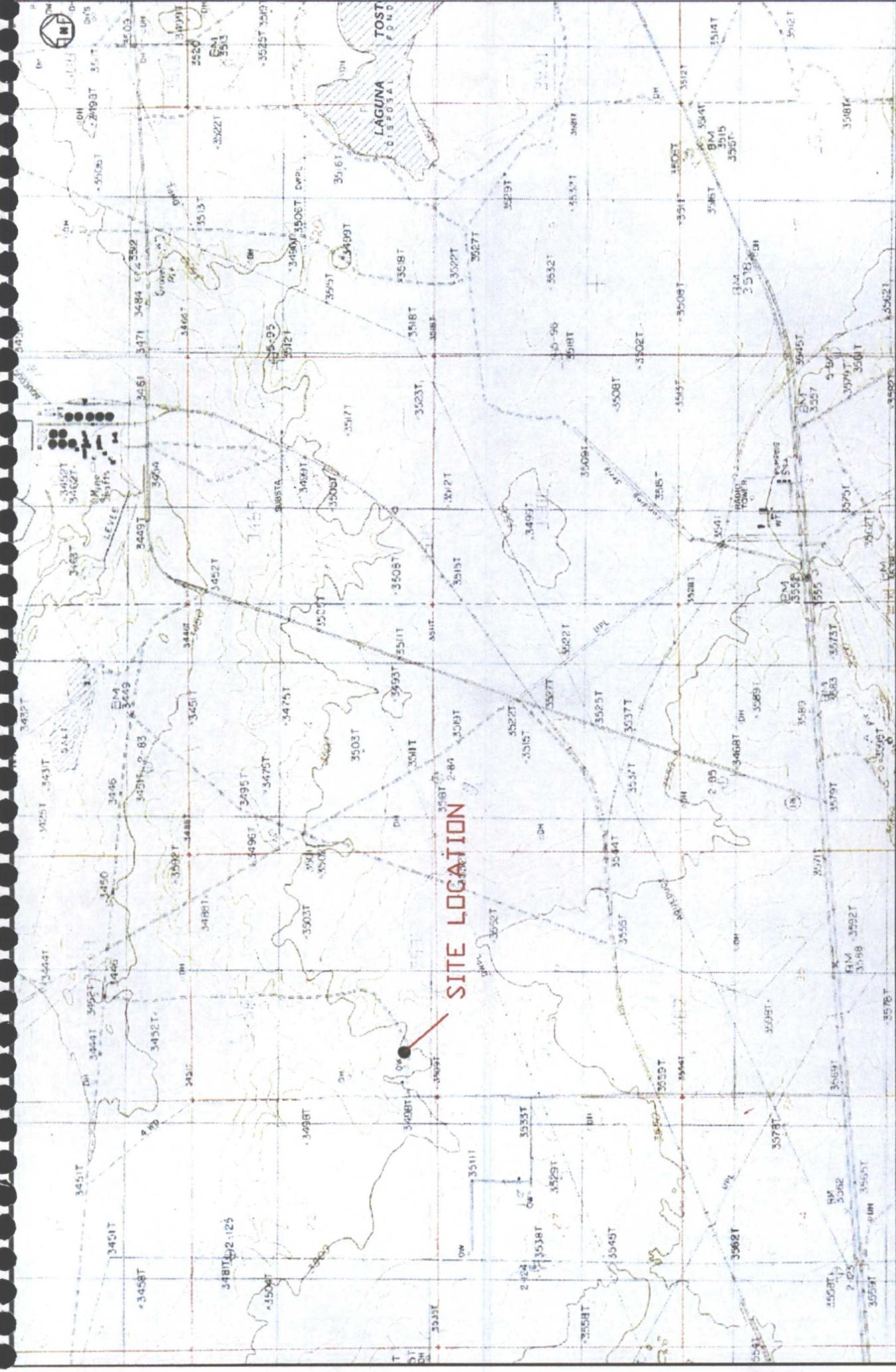
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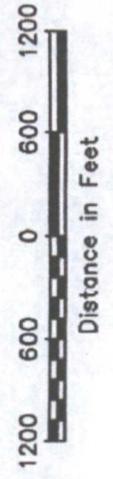
Figures



SITE LOCATION

Basin Environmental Consulting

Figure 1
Site Location Map
 BOPCO, LP
 Cobb Federal #1
 Eddy County, New Mexico
 2RP-369



Prep By: JWL
 October 04, 2010
 Scale 1"=1,200'

Checked By: CDS

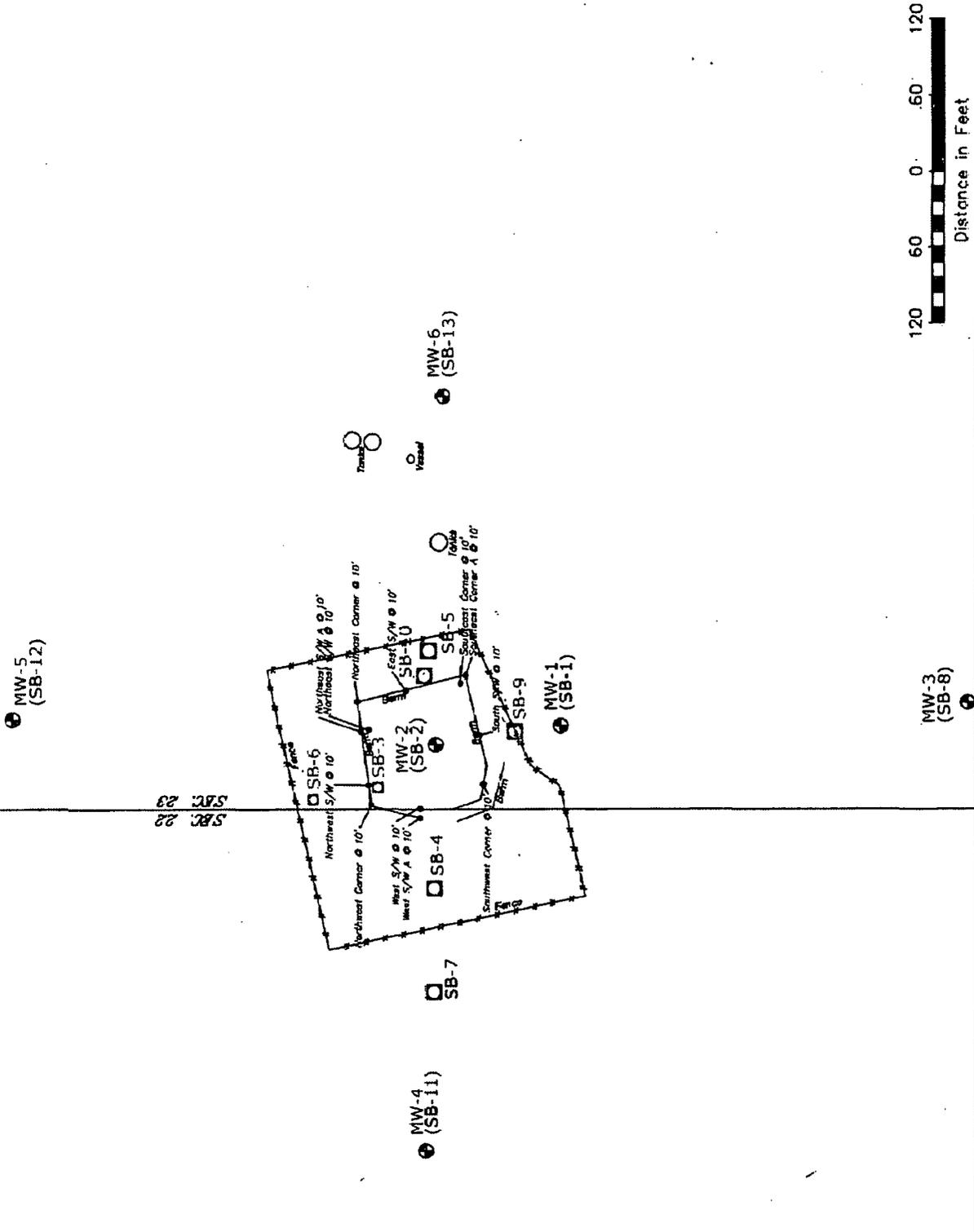


Figure 2
Site Map
BOPCO
GH Cobb Fed #1
Eddy County, NM

Legend:

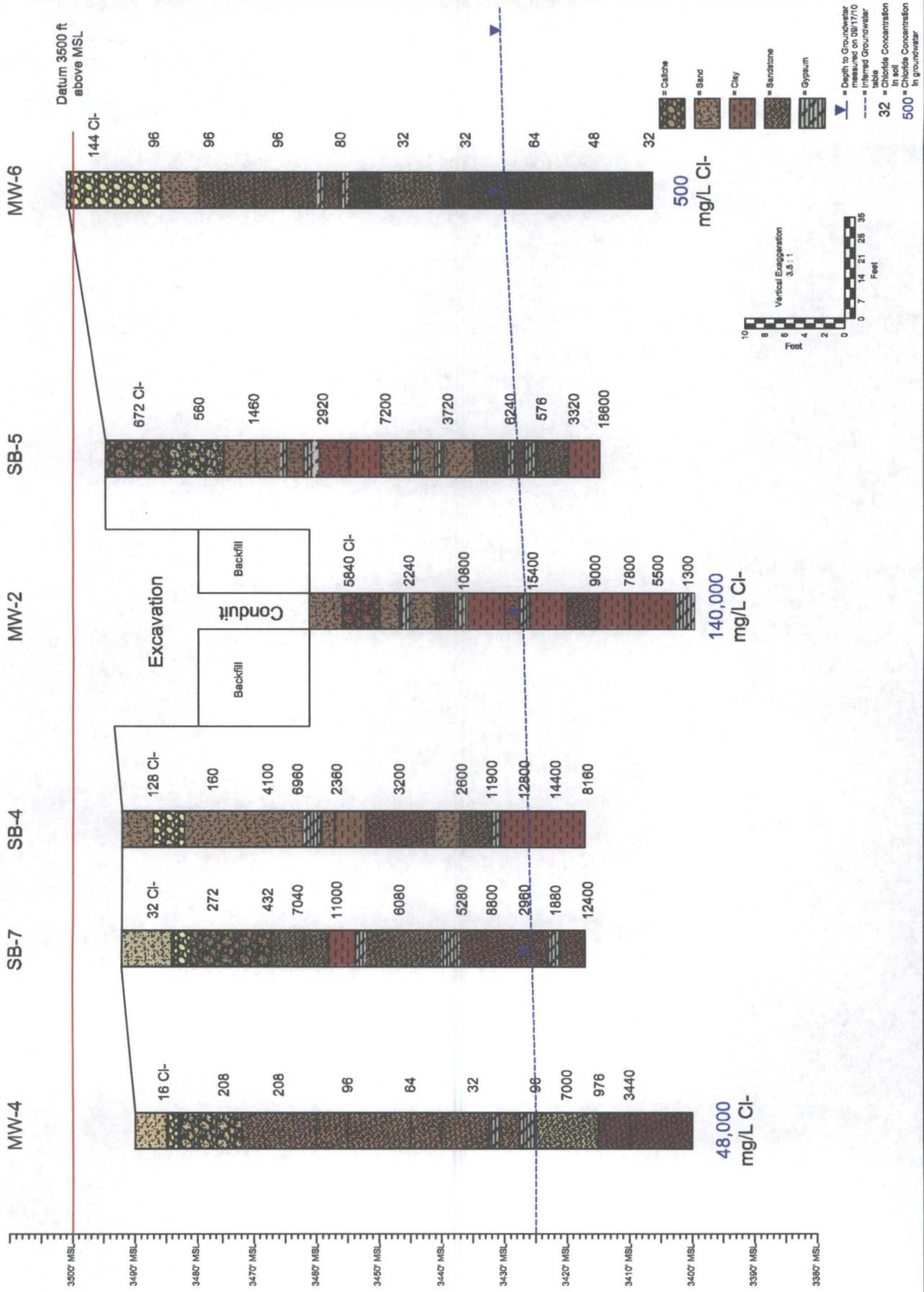
- Excavation Extent
- - - Bench Extent
- Monitor Well Location
- Soil Boring Location
- Sample Location

Basin Environmental Consulting

Prep By: CDS
 March 3, 2010
 Scale: 1"=120'
 Checked By: CJB

West
B

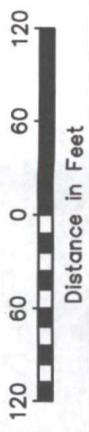
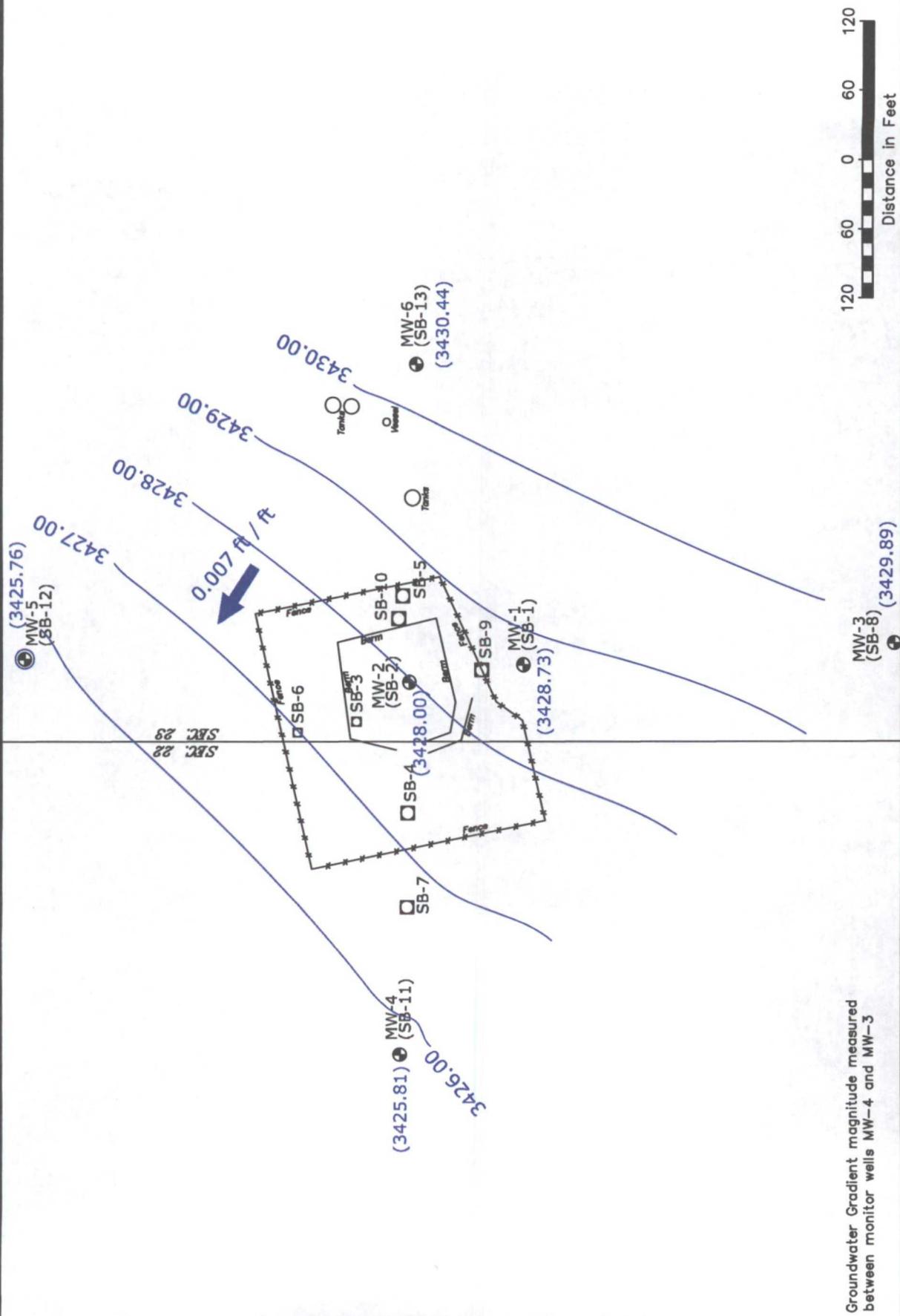
East
B'



East - West Stratigraphic Cross Section B - B'
 G.H. Cobb Federal #1 (2RP-369) Eddy County, New Mexico
 BOPCO, L.P.

Basin Environmental Services

Prep By: JWJ
 Checked By: CJB
 Date: Oct 11, 2010
 Scale: See Scale Bar



Groundwater Gradient magnitude measured between monitor wells MW-4 and MW-3

Basin Environmental Consulting

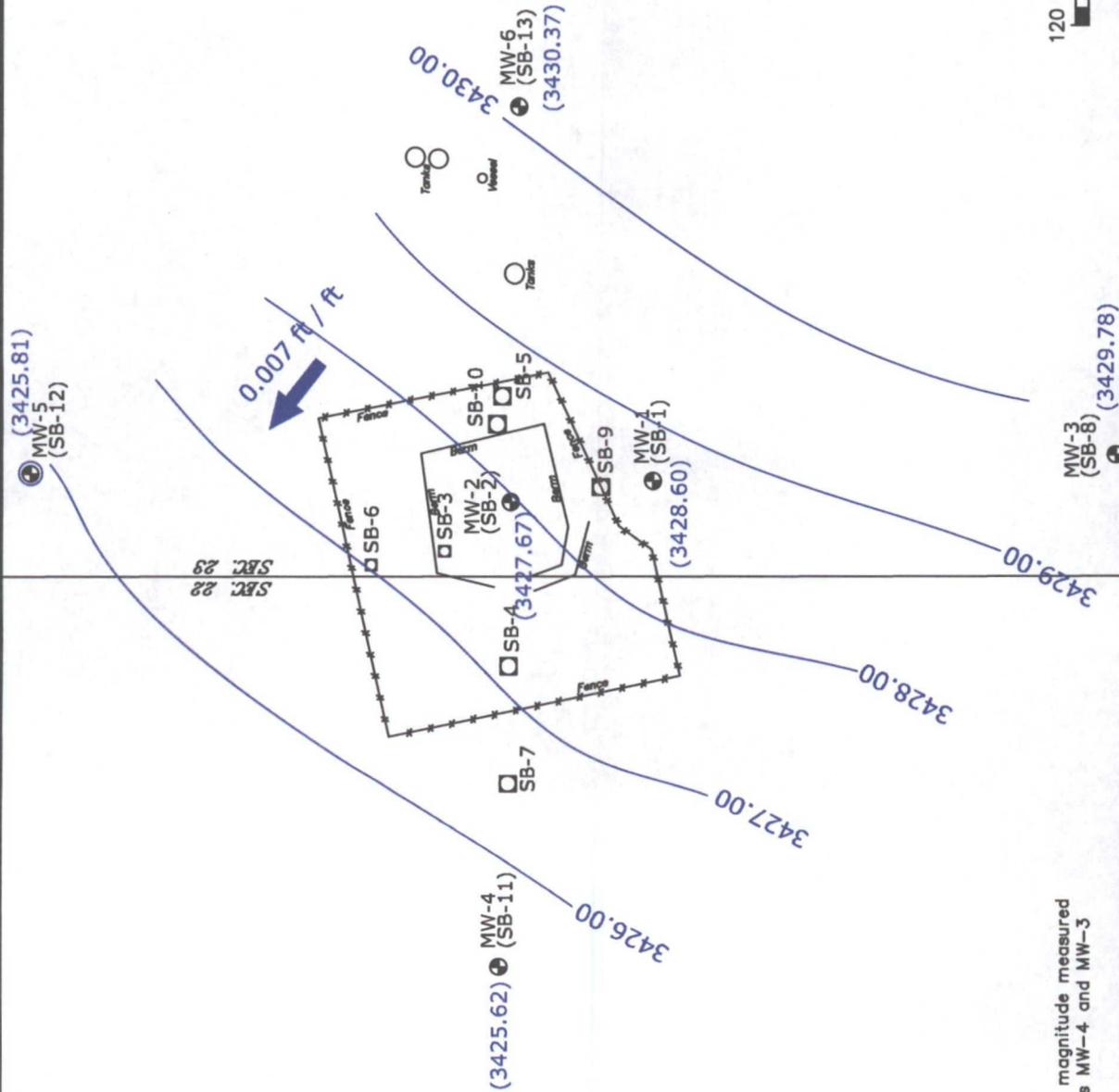
Prep By: CDS
March 3, 2010

Checked By: CJB
Scale 1"=120'

Figure 4a
Inferred Groundwater Gradient Map (03/02/10)
BOPCO
GH Cobb Fed #1
Eddy County, NM

Legend:

- MW-1 Monitor Well
- Excavation Extents
- Pipeline
- Groundwater Gradient Contour Line
- Groundwater Elevation (feet)
- Groundwater Gradient Direction and Magnitude
- SB-1 Soil Boring Location
- Powerline
- Fence



Groundwater Gradient magnitude measured between monitor wells MW-4 and MW-3

- Legend:**
- MW-1 Monitor Well
 - Excavation Extents
 - Pipeline
 - Fence
 - Groundwater Gradient Contour Line
 - Groundwater Elevation (feet)
 - Soil Boring Location
 - Groundwater Gradient Direction and Magnitude

Figure 4b
Inferred Groundwater Gradient Map (09/17/10)
 BOPCO
 GH Cobb Fed #1
 Eddy County, NM

Basin Environmental Consulting

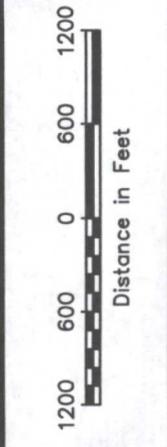
Prep By: JWL
 Checked By: CJB
 October 1, 2010
 Scale 1"=120'



Google

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Image USDA Farm Service Agency

Figure 5
Aerial Photograph
BOPCO, LP
GH Cobb Federal #1
Eddy County, New Mexico
2RP-369



Basin Environmental Services Technologies

Prep By: JWL
October 04, 2010
Checked By: BJA



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

SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPL E DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					SW 848-8015M			4500 CHLORID E (mg/Kg)	
				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 ₉ -C ₃₅ (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	-	-	-	-	-	<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	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	80
SB-1 @ 55'	55 Feet	12/30/09	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	64
SB-1 @ 60'	60 Feet	12/30/09	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	112
SB-1 @ 65'	65 Feet	12/30/09	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	8,200
SB-1 @ 70'	70 Feet	12/30/09	In-Situ	-	-	-	-	-	<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	-	-	-	-	-	<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	-	-	-	-	-	-	-	-	-	7,800
SB-2 @ 55'	84 Feet	01/04/10	In-Situ	-	-	-	-	-	-	-	-	-	5,500
SB-2 @ 60'	89 Feet	01/04/10	In-Situ	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	384
SB-3 @ 25'	40 Feet	01/04/10	In-Situ	-	-	-	-	-	-	-	-	-	4,800
SB-3 @ 35'	50 Feet	01/04/10	In-Situ	-	-	-	-	-	-	-	-	-	6,800
SB-3 @ 40'	55 Feet	01/04/10	In-Situ	-	-	-	-	-	-	-	-	-	12,000
SB-3 @ 45'	60 Feet	01/04/10	In-Situ	-	-	-	-	-	-	-	-	-	9,500
SB-3 @ 55'	70 Feet	01/04/10	In-Situ	-	-	-	-	-	-	-	-	-	6,300
SB-3 @ 60'	75 Feet	01/04/10	In-Situ	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	6,960
SB-4 @ 35'	35 Feet	01/05/10	In-Situ	-	-	-	-	-	-	-	-	-	2,360
SB-4 @ 45'	45 Feet	01/05/10	In-Situ	-	-	-	-	-	-	-	-	-	3,200
SB-4 @ 55'	55 Feet	01/05/10	In-Situ	-	-	-	-	-	-	-	-	-	2,600
SB-4 @ 60'	60 Feet	01/05/10	In-Situ	-	-	-	-	-	-	-	-	-	11,900
SB-4 @ 65'	65 Feet	01/05/10	In-Situ	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	560
SB-5 @ 25'	25 Feet	01/05/10	In-Situ	-	-	-	-	-	-	-	-	-	1,460
SB-5 @ 35'	35 Feet	01/06/10	In-Situ	-	-	-	-	-	-	-	-	-	2,920
SB-5 @ 45'	45 Feet	01/06/10	In-Situ	-	-	-	-	-	-	-	-	-	7,200
SB-5 @ 55'	55 Feet	01/06/10	In-Situ	-	-	-	-	-	-	-	-	-	3,720
SB-5 @ 65'	65 Feet	01/06/10	In-Situ	-	-	-	-	-	-	-	-	-	6,240
SB-5 @ 70'	70 Feet	01/06/10	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	-	-	-	-	-	-	-	-	-	304
SB-6 @ 25'	25 Feet	01/06/10	In-Situ	-	-	-	-	-	-	-	-	-	704
SB-6 @ 35'	35 Feet	01/06/10	In-Situ	-	-	-	-	-	-	-	-	-	7,520
SB-6 @ 45'	45 Feet	01/06/10	In-Situ	-	-	-	-	-	-	-	-	-	4,320
SB-6 @ 55'	55 Feet	01/06/10	In-Situ	-	-	-	-	-	-	-	-	-	5,760
SB-6 @ 60'	60 Feet	01/06/10	In-Situ	-	-	-	-	-	-	-	-	-	8,560
SB-6 @ 65'	65 Feet	01/06/10	In-Situ	-	-	-	-	-	-	-	-	-	13,400
SB-6 @ 70'	70 Feet	01/06/10	In-Situ	-	-	-	-	-	-	-	-	-	12,400

TABLE 1
CONCENTRATIONS OF TPH, BTEX AND CHLORIDES IN SOIL

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

SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPL E DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					SW 846-8015M				4500 CHLORID E (mg/Kg)
				BENZENE (mg/Kg)	TOLUEN E (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO Ca.C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	DRO Ext. C28-C35 (mg/Kg)	TOTAL TPH C6-C35 (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	-	-	-	-	-	-	-	-	-	272
SB-7 @ 25'	25 Feet	01/11/10	In-Situ	-	-	-	-	-	-	-	-	-	432
SB-7 @ 30'	30 Feet	01/11/10	In-Situ	-	-	-	-	-	-	-	-	-	7,040
SB-7 @ 35'	35 Feet	01/11/10	In-Situ	-	-	-	-	-	-	-	-	-	11,000
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'	70 Feet	01/11/10	In-Situ	-	-	-	-	-	-	-	-	-	1,880
SB-7 @ 75'	75 Feet	01/11/10	In-Situ	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	80
SB-8 @ 45'	45 Feet	01/12/10	In-Situ	-	-	-	-	-	-	-	-	-	48
SB-8 @ 55'	55 Feet	01/12/10	In-Situ	-	-	-	-	-	-	-	-	-	32
SB-8 @ 65'	65 Feet	01/12/10	In-Situ	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	48
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'	15 Feet	01/12/10	In-Situ	-	-	-	-	-	-	-	-	-	144
SB-9 @ 20'	20 Feet	01/12/10	In-Situ	-	-	-	-	-	-	-	-	-	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
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'	15 Feet	01/13/10	In-Situ	-	-	-	-	-	-	-	-	-	208
SB-11 @ 25'	25 Feet	01/13/10	In-Situ	-	-	-	-	-	-	-	-	-	208
SB-11 @ 35'	35 Feet	01/13/10	In-Situ	-	-	-	-	-	-	-	-	-	96
SB-11 @ 45'	45 Feet	01/13/10	In-Situ	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	976
SB-11 @ 80'	80 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	144
SB-12 @ 65'	65 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	4,000
SB-12 @ 75'	75 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	2,640
SB-12 @ 80'	80 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	5,680
SB-12 @ 85'	85 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	2,680
SB-12 @ 90'	90 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	992
SB-13 @ 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	144
SB-13 @ 15'	15 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	96
SB-13 @ 25'	25 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	96
SB-13 @ 35'	35 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	96
SB-13 @ 45'	45 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	80
SB-13 @ 55'	55 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	32
SB-13 @ 65'	65 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	32
SB-13 @ 75'	75 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	64
SB-13 @ 85'	85 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	48
SB-13 @ 95'	95 Feet	01/15/10	In-Situ	-	-	-	-	-	-	-	-	-	32
Northwest S/W @ 10'	10 Feet	01/08/10	In-Situ	<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	01/08/10	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'	10 Feet	01/08/10	Excavated	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	4,600
East S/W @ 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	9,900
South S/W @ 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	8,500
Northwest 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	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	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	896
Southeast Corner @ 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
Northeast S/W A @ 10'	10 Feet	02/11/10	In-Situ	-	-	-	-	-	-	-	-	-	1,060
Southeast Corner A @ 10'	10 Feet	02/11/10	In-Situ	-	-	-	-	-	-	-	-	-	768
West S/W A @ 10'	10 Feet	02/11/10	In-Situ	-	-	-	-	-	-	-	-	-	672
NMOCD Regulatory Standard				10				50					1,000

**TABLE 2
GROUNDWATER ELEVATION DATA**

**BOPCO, LP
G.H. COBB FEDERAL #1
EDDY COUNTY, NEW MEXICO
NMCD 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-1	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
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
MW-3	01/19/10	3,511.20	-	-
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
NMCD 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
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	01/19/10	3,506.82	75.88	3,430.94
MW-6	01/26/10	3,506.82	76.91	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

TABLE 3

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

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

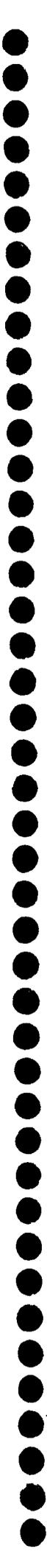
SAMPLE LOCATION	SAMPLE DATE	EPA 8021B				TCLP SW846 6010B						TCPL SW 7470A		E 4500 CHLORIDES (mg/L)	EPA160.1 TDS (mg/L)		
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M.P. XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL BTEX (mg/L)	LEAD (mg/L)	ARSENIC (mg/L)	CADMIUM (mg/L)	CHROMIUM (mg/L)	SELENIUM (mg/L)	SILVER (mg/L)			BARIUM (mg/L)	MERCURY (mg/L)
MW-1	01/26/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41,000	63,200
MW-1	06/03/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46,000	-
MW-1	09/17/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43,000	-
MW-2	01/26/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	134,000	215,000
MW-2	03/24/10	0.0208	<0.0400	<0.0200	0.0432	<0.200	0.064	<2.22	<0.111	<0.556	<2.22	<0.444	1.43	<0.0001	-	-	-
MW-2	06/03/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	134,000	-
MW-2	09/17/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140,000	-
MW-3	01/26/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124	773
MW-3	06/03/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	-
MW-3	09/17/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	220	-
MW-4	01/26/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51,000	72,500
MW-4	06/03/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49,500	-
MW-4	09/17/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49,000	-
MW-5	01/26/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83,000	118,000
MW-5	06/03/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70,000	-
MW-5	09/17/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76,000	-
MW-6	01/26/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	424	1,440
MW-6	06/03/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	456	-
MW-6	09/17/10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500	-
Produced Water Tank	03/24/10	0.0788	<0.0400	0.1028	<0.0400	<0.0200	0.1826	<2.22	<0.111	<0.556	<2.22	<0.444	2.06	<0.0001	-	-	-
REGULATORY STANDARD		0.01	0.75	0.75	TOTAL XYLENES 0.62		1.00	1.00	0.2	1.00	1.00	1.00	20	0.04	250	10,000	

TABLE 4

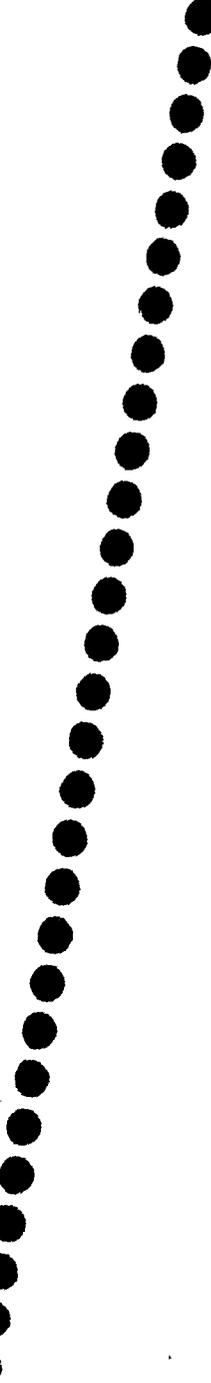
CONCENTRATIONS OF POTASSIUM, ARSENIC AND MAGNESIUM IN SOIL

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

SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPLE DATE	SOIL STATUS	METHOD: EPA 600/4-91/010, 3050		
				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	01/04/10	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	01/04/10	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	01/04/10	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	01/05/10	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	01/06/10	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	01/06/10	In-Situ	1,220	10.4	11,000
SB-6 @ 70'	70 Feet	01/06/10	In-Situ	748	<10	2,870
NMOCD Regulatory Standard				-	100	-



Appendices



Appendix A
Soil Boring & Monitor Well Logs

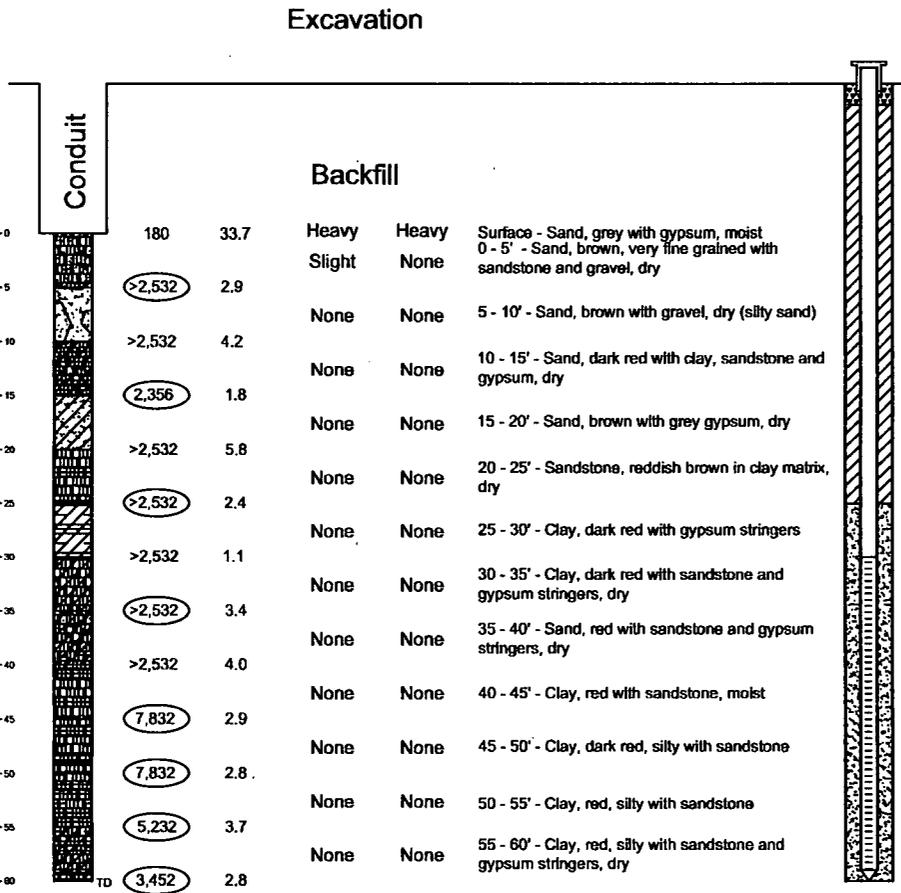
Monitor Well MW-2

Monitor Well MW-2

Depth below ground surface

Drilling Depth Columns Soil Chloride Field Test Reading PID Reading Odor Petroleum Stain Soil Description

Date Drilled December 30, 2009
 Thickness of Bentonite Seal 53 Ft
 Depth of Exploratory Boring 80 Ft bgs
 Depth to Groundwater _____
 Ground Water Elevation _____



▼ Indicates the PSH level measured on _____
 ▼ Indicates the groundwater level measured on _____
 ○ Indicates samples selected for Laboratory Analysis.
 PID Head-space reading in ppm obtained with a photo-ionization detector.

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

Completion Notes

- 1.) The monitor well was advanced on date using air rotary drilling techniques.
- 2.) The well was constructed with 2" ID, 0.010 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- 3.) 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-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

Monitor Well MW-4

Monitor Well MW-4

Depth below ground surface



Soil Columns	Chloride Field Test Reading	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
	ND	9.3	None	None	Surface - Sand, brown, clayey, moist
	ND	7.8	None	None	0 - 5' - Sand, light brown, very fine grained, soft
	ND	6.2	None	None	5 - 7' - Caliche, white, soft, dry
	180	5.6	None	None	7 - 18' - Sand, light brown with caliche nodules
	128	7.2	None	None	18 - 30' - Sandstone, white to light red
	212	6.4	None	None	
	ND	5.6	None	None	30 - 35' - Sandstone, white to light red in red clay matrix
	ND	4.2	None	None	
	ND	5.5	None	None	35 - 45' - Sandstone, light red with some hard intervals
	ND	5.7	None	None	45 - 50' - Sandstone, light red with some hard intervals in clay matrix
	ND	5.2	None	None	
	ND	6.2	None	None	50 - 65' - Sandstone, light red with some hard intervals in clay matrix and some gypsum intervals
	ND	6.3	None	None	
	ND	2.5	None	None	65 - 75' - Sandstone, light brown to light red, silty, some very hard intervals, moist at 70 feet bgs
	5,672	4.6	None	None	
	848	4.8	None	None	75 - 80' - Sandstone, red, silty, hard
	3,452	4.9	None	None	
	>2,424	3.3	None	None	80 - 90' - Sandstone, red to brown, hard with clay, moist
	3,452		None	None	



Date Drilled January 13, 2010
 Thickness of Bentonite Seal 43 Ft
 Depth of Exploratory Boring 90 Ft bgs
 Depth to Groundwater _____
 Ground Water Elevation _____

▼ Indicates the PSH level measured on _____
 ▼ Indicates the groundwater level measured on _____
 ○ Indicates samples selected for Laboratory Analysis.
 PID Head-space reading in ppm obtained with a photo-ionization detector.

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

Completion Notes

- 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

Prep By: CDS

Checked By: CJB

May 12, 2010

Soil Boring SB-3

Depth
below
ground
surface

Drilling Depth Soil Columns Chloride Field Test PID Reading Petroleum Odor Petroleum Stain Soil Description

Soil Boring SB-3

Date Drilled January 5, 2010
 Thickness of Bentonite Seal 60 Fl
 Depth of Exploratory Boring 60 Fl bgs
 Depth to Groundwater _____
 Ground Water Elevation _____

Excavation



Depth (ft)	Soil Column	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0 - 5'		708	4.5	None	None	Surface - Caliche, tan, sandy, dry 0 - 5' - Sand, brown, very fine grained with sandstone, dry
5 - 10'	(416)	416	2.7	None	None	5 - 10' - Sandstone, brown, silty, dry
10 - 15'		416	4.8	None	None	10 - 15' - Sand, brown with sandstone, dry
15 - 25'	(416)	7,224	3.9	None	None	15 - 25' - Sand, brown, very fine grained with sandstone, dry
25 - 35'	(3,452)	3,452	2.3	None	None	25 - 35' - Clay, red, silty with sandstone, dry
35 - 40'		6,664	6.8	None	None	35 - 40' - Clay, red with sandstone and some gypsum, some moisture
40 - 45'	(9,232)	9,232	6.4	None	None	40 - 45' - Clay, dark red, silty with sandstone and gypsum stringers
45 - 50'		8,664	3.3	None	None	45 - 50' - Clay, dark red, silty with sandstone, moist
50 - 55'		2,892	2.9	None	None	50 - 55' - Clay, dark red, damp
55 - 60'	(3,452)	3,452	2.7	None	None	55 - 60' - Clay, dark red with gypsum stringers, damp
60 - 75'	(3,452)	3,452	2.5	None	None	

▼ Indicates the PSH level measured on _____
 ▼ Indicates the groundwater level measured on _____
 ○ Indicates samples selected for Laboratory Analysis.
 PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Soil Boring SB-3

BOPCO
 GH Cobb Fed #1
 Eddy County, New Mexico

Basin Environmental Consulting

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

Soil Boring SB-4

Boring SB-4

Depth below ground surface



Soil Columns	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
	ND	1.7	None	None	
		1.8	None	None	Surface - 5' - Sand, brown, very fine grained
		1.5	None	None	5 - 10' - Caliche, tan, sandy, dry
	128	1.8	None	None	10 - 15' - Sand, brown, very fine grained, with caliche, dry
	180	2.5	None	None	15 - 20' - Sand, brown, with sandstone, dry
	212	3.8	None	None	20 - 25' - Sand, brown, very fine grained with sandstone, dry
	3,452	4.1	None	None	25 - 30' - Sand, brown, very fine grained with some clay and sandstone, dry
	6,148	2.2	None	None	30 - 35' - Sand and sandstone, brown with gypsum stringers, dry
	1,960	2.3	None	None	35 - 40' - Clay, reddish brown, sandy with sandstone, dry
	5,232	3.7	None	None	40 - 45' - Sandstone, reddish brown, dense, hard with clay
	2,636	5.9	None	None	45 - 50' - Sandstone, red in clay matrix, dry
	6,148	4.3	None	None	50 - 55' - Sand, brown with sandstone and some clay, dry
	2,396	3.6	None	None	55 - 60' - Sandstone, reddish brown, coarse grained with clay matrix
	13,028	2.0	None	None	60 - 65' - Clay, red, silty with sandstone and grey gypsum, damp
	11,920	4.0	None	None	65 - 70' - Clay, dark red with sandstone, damp
	11,920	2.4	None	None	70 - 75' - Clay, dark red, silty with sandstone, wet
	5,672				

Date Drilled January 5, 2010
 Thickness of Bentonite Seal 75 Ft
 Depth of Exploratory Boring 75 Ft bgs
 Depth to Groundwater _____
 Ground Water Elevation _____

- ▼ Indicates the PSH level measured on _____
- ▼ Indicates the groundwater level measured on _____
- Indicates samples selected for Laboratory Analysis.
- Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Soil Boring SB-4

BOPCO
 GH Cobb Fed #1
 Eddy County, New Mexico

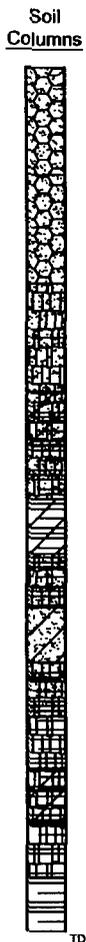
Basin Environmental Consulting

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

Soil Boring SB-5

Boring SB-5

Depth below ground surface



Soil Columns	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
	ND	1.2	None	None	Surface - Sand, brown with organics, dry
		1.8	None	None	
(676)		1.7	None	None	0 - 10' - Sand, tan with caliche nodules, dry
676		1.2	None	None	
(572)		1.9	None	None	10 - 20' - Sand, tan, very fine grained, with caliche, dry
396		1.9	None	None	
(1,340)		0.7	None	None	20 - 25' - Sand, brown with sandstone, dry
436		1.5	None	None	
(1,244)		2.2	None	None	25 - 30' - Sand, brown, very fine grained with sandstone, dry
1,340		1.9	None	None	
(5,232)		2.1	None	None	30 - 35' - Sand, reddish brown with clay, sandstone and gypsum stringers, layering, dry
4,092		2.3	None	None	
(3,164)		1.7	None	None	35 - 40' - Sand, red with limited clay and sandstone, dry
4,444		1.9	None	None	
(6,664)		2.0	None	None	40 - 45' - Clay, red with gypsum, dry
856		1.5	None	None	
(3,164)		1.1	None	None	45 - 50' - Sand, reddish brown with clay and sandstone, dry
(13,028)					50 - 55' - Sand, brown, very fine grained with grey gypsum, layering, dry
					55 - 60' - Sand, brown, very fine grained with sandstone and some clay, dry
					60 - 65' - Sandstone, reddish brown in clay matrix, dry
					65 - 70' - Sandstone, dark red with clay and grey gypsum, layered, dry
					70 - 75' - Sandstone, reddish brown in silty clay, dry
					75 - 80' - Clay, dark red, moist

Date Drilled January 5, 2010
 Thickness of Bentonite Seal 80 Fl
 Depth of Exploratory Boring 80 Ft logs
 Depth to Groundwater _____
 Ground Water Elevation _____

- ▼ Indicates the PSH level measured on _____
- ▼ Indicates the groundwater level measured on _____
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Soil Boring SB-5

BOPCO
 GH Cobb Fed #1
 Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS

Checked By: CJB

May 14, 2010

Soil Boring SB-6

Soil Boring SB-6

Depth below ground surface

Soil Columns

Chloride Field Test Reading

PID Reading

Petroleum Odor

Petroleum Stain

Soil Description

Date Drilled January 8, 2010
 Thickness of Bentonite Seal 70 Ft
 Depth of Exploratory Boring 79 Ft bgs
 Depth to Groundwater _____
 Ground Water Elevation _____



ND
529
436
356
188
792
5,232
6,664
3,452
4,824
3,452
5,232
7,832
13,028
10,040

1.2	None	None
2.9	None	None
2.5	None	None
3.7	None	None
4.5	None	None
5.2	None	None
3.6	None	None
2.8	None	None
7.9	None	None
2.3	None	None
3.1	None	None
3.1	None	None
5.2	None	None
4.4	None	None
1.9	None	None

Surface - Sand, reddish brown, with caliche nodules

0 - 10' - Sand, tan with soft caliche, dry

10 - 15' - Sand, brown with sandstone, dry

15 - 20' - Sand, tan to brown, very fine grained with sandstone, dry

20 - 40' - Sand, brown, very fine grained with sandstone, dry

40 - 45' - Sandstone, dark red in clay matrix, dry

45 - 50' - Sandstone, layered brown to grey, with gypsum, dry

50 - 55' - Sandstone, brown, very fine grained, dry

55 - 60' - Clay, reddish brown, silty with sandstone, dry

60 - 65' - Clay, dark red, sandy with sandstone, dry

65 - 70' - Clay, dark red, sandstone layering, moist

▼ Indicates the PSH level measured on _____
 ▼ Indicates the groundwater level measured on _____
 ○ Indicates samples selected for Laboratory Analysis.
 PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Soil Boring SB-6

BOPCO
 GH Cobb Fed #1
 Eddy County, New Mexico

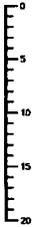
Basin Environmental Consulting

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

Soil Boring SB-9

Soil Boring SB-9

Depth below ground surface



Soil Columns	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
	(1,000)	6.5	None	None	Surface - Caliche lease road
	520	3.7	None	None	0 - 7' - Caliche, white
	(132)	4.2	None	None	7 - 12' - Sand, brown, dry
	(128)	3.7	None	None	12 - 15' - Sand, brown with caliche nodules
			None	None	15 - 20' - Caliche, white and sand, brown with some brown clay

Date Drilled January 12, 2010
 Thickness of Bentonite Seal 20 Ft
 Depth of Exploratory Boring 20 Ft bgs
 Depth to Groundwater _____
 Ground Water Elevation _____

- ▼ Indicates the PSH level measured on _____
- ▼ Indicates the groundwater level measured on _____
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Soil Boring SB-9

BOPCO
 GH Cobb Fed #1
 Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS

Checked By: CJB

May 14, 2010

Soil Boring SB-10

Soil Boring SB-10

Depth below ground surface

Soil Columns

Chloride Field Test Reading

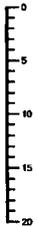
PID Reading

Petroleum Odor

Petroleum Stain

Soil Description

Date Drilled January 12, 2010
 Thickness of Bentonite Seal 20 Ft
 Depth of Exploratory Boring 29 Ft bgs
 Depth to Groundwater _____
 Ground Water Elevation _____



TD



None	None

Surface - Sand, light brown, very fine grained with some clay

0 - 20' - Sand, white to light brown to brown with sandstone

- ▼ Indicates the PSH level measured on _____
- ▼ Indicates the groundwater level measured on _____
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- 1.) The monitor well was advanced on date using air rotary drilling techniques.
- 2.) The lines between material 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



ARDINAL LABORATORIES

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

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 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 524.2	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

This report conforms with NELAP requirements.



**ARDINAL
LABORATORIES**

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

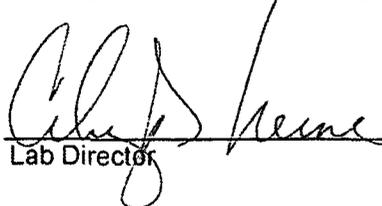
ANALYTICAL RESULTS FOR
 BASIN ENVIRONMENTAL CONSULTING, LLC
 ATTN: CAMILLE BRYANT
 P.O. BOX 381
 LOVINGTON, NM 88260
 FAX TO: (575) 396-1429

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

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	DRO ext. (>C ₂₈ -C ₃₅) (mg/kg)
ANALYSIS DATE		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 Control		500	479	-
True Value QC		500	500	-
% Recovery		100	95.8	-
Relative Percent Difference		13.6	1.2	-

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


 Lab Director


 Date

H18968 TPHEXT BASIN

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 whatsoever shall be deemed waived unless made in writing 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 profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Result relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



ARDINAL LABORATORIES

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

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

Analysis Date: 01/04/10
Sampling Date: 12/30/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4°C
Sample Received By: HM
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods 4500-Cl⁻B

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

Chemist

Date 01/05/10

H18968 Basin Environmental

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 analysis. All claims, including those for negligence and 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. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim 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.



CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

Company Name: BASIN ENV. CONSULTING Project Manager: CAMILLE BRUNDT Address: 2800 PLAINS HWY City: LAMINGTON State: NM Zip: 88266 Phone #: 575 605 7210 Fax #: 575-396-1429 Project #: 24511 Project Owner: BOPCO Project Name: COBB FEDERAL #1 Project Location: EDDY CO. NM Sampler Name: <i>[Signature]</i>		BILL TO P.O. #: 24511 Company: BOPCO Attn: TOMY SAUDIE Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST <input checked="" type="checkbox"/> Chloride (4500) <i>SRN DATED AT</i> <input checked="" type="checkbox"/> Potassium (RUSH) <input checked="" type="checkbox"/> Arsenic (RUSH) <input checked="" type="checkbox"/> Magnesium (RUSH) <input checked="" type="checkbox"/> TPH (BDSM EXTENDED) <i>SRN DATED</i>											
Lab ID	Sample I.D.	MATRIX	CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	PRESERV.	SAMPLING	DATE	TIME
H18963-1	SB-1@S'	X	1	X					X					12/30	1100
-2	SB-1@15'													1140	
-3	SB-1@25'													1230	
-4	SB-1@35'													1305	
-5	SB-1@45'													1445	
-6	SB-1@55'													1520	
-7	SB-1@60'													1540	
-8	SB-1@65'													1600	
-9	SB-1@70'													1620	
-10	SB-1@75'													1640	

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 THE CLIENT FOR THE ANALYSIS. All items including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Sampler Relinquished: <i>[Signature]</i>	Date: 12/31/09	Time: 8:00	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 12/15/07	Time: 4:50	Received By: <i>[Signature]</i>

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Temp. Sample Condition Cool, Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Checked By: (Initials) <i>ASW</i>
---	---	--------------------------------------

REMARKS: Curt, Camille, Eb e-mail

Phono Result: No No No
 Add'l Phone #: No No No
 Fax Result: No No No
 Add'l Fax #: No No No

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



ARDINAL LABORATORIES

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

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 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 524.2	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

This report conforms with NELAP requirements.



CARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 Fax (575) 393-2476

Company Name: BASIN ENV. CONSULTING Project Manager: CAMILLE BRUNDT Address: 2800 PLAINS HWY City: LOVINGTON State: NM Zip: 88266 Phone #: 575 605 7210 Fax #: 575-396-1429 Project #: 24511 Project Owner: BOPCO Project Name: COBB FEDERAL #1 Project Location: FDDY CRT N M Sampler Name: <i>[Signature]</i>		BILL TO P.O. #: 24511 Company: BOPCO Attn: TONY SAVOIE Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST Chloride (400) <input checked="" type="checkbox"/> Potassium (RUSH) <input checked="" type="checkbox"/> Arsenic (RUSH) <input checked="" type="checkbox"/> Magnesium (RUSH) <input checked="" type="checkbox"/> TPH (BISM EXTENDED) <input checked="" type="checkbox"/>	
Lab I.D. Sample I.D. H08968-1 SB-1@5' -2 SB-1@15' -3 SB-1@25' -4 SB-1@35' -5 SB-1@45' -6 SB-1@55' -7 SB-1@60' -8 SB-1@65' -9 SB-1@70' -10 SB-1@75'	MATRIX (G)RAB OR (CMP) <input checked="" type="checkbox"/> # CONTAINERS <input checked="" type="checkbox"/> GROUNDWATER <input checked="" type="checkbox"/> WASTEWATER <input checked="" type="checkbox"/> SOIL <input checked="" type="checkbox"/> SLUDGE <input checked="" type="checkbox"/> OTHER: <input checked="" type="checkbox"/>	PRESERV. ACID/BASE: <input checked="" type="checkbox"/> ICE / COOL: <input checked="" type="checkbox"/> OTHER: <input checked="" type="checkbox"/>	SAMPLING DATE TIME 12/30 1100 1140 1230 1305 1445 1520 1540 1600 1620 1640	REMARKS: STANDARD #7 STANDARD #7	Phone Result: <input type="checkbox"/> Add'l Phone #: Fax Result: <input type="checkbox"/> Add'l Fax #:
Received By: <i>[Signature]</i> Date: 12/31/09 Time: 8:00 Relinquished By: <i>[Signature]</i> Date: 12/31/09 Time: 4:50		Temp. 4.0C Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: <i>[Signature]</i>		Delivered By: (Circle One) Sampler - UPS - Bus - Other:	

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 the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the application. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.

Curt, Camille, Eb e-mail

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



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

Company Name: BASIN ENV. CONSULTING Project Manager: CAMILLE BRYANT Address: 2800 PLAINS HWY City: LAMINGTON State: NM Zip: 88240 Phone #: 575-685-7210 Fax #: 575-396-1429 Project #: 24511 Project Owner: BOPCO Project Name: COBB FERRAL #1 Project Location: Eddy Co, NM Sampler Name: [Signature]		BILL TO P.O. #: 24511 Company: BOPCO Attn: TOMY SAUDIE Address: City: State: Phone #: Fax #:		ANALYSIS REQUEST CHLORIDE (4500) VITAMIN B12 ↓ X TPH (BOISM & [unclear])				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESEV.	SAMPLING	DATE	TIME
H1962-11	SB-1000	G	1	WASTEWATER GROUNDWATER SOIL OIL SLUDGE OTHER:	ICE / COOL ACID/BASE OTHER:	2009	2/30	1700
-12	SB-1005	Y	1				2/30	1745
-13	SB-1090	Y	1				2/30	1825

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 the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claims are based upon any of the above stated reasons or otherwise.

Sampler Relinquished: [Signature] Date: 2/30/09 Time: 0900

Relinquished By: [Signature]

Received By: [Signature] Date: 2/30/09 Time: 9:50

Temp: 4°C

Sample Condition: Cool Intact Yes No Yes No

Checked By: [Signature]

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Phone Result: No Add'l Phone #: No Add'l Fax #: No

REMARKS:

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



ARDINAL LABORATORIES

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

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 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 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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

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

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

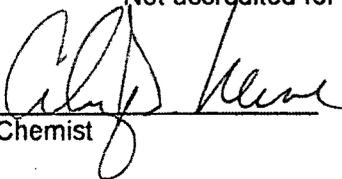
Receiving Date: 01/07/10
Reporting Date: 01/11/10
Project Number: 24511 (BOPCO, LP)
Project Name: COBB FEDERAL #1
Project Location: EDDY CO., NM

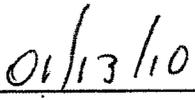
Analysis Date: 01/11/10
Sampling Date: 01/04/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5.5°C
Sample Received By: CK
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		2.0

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

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


Chemist


Date

H19001 Basin Environmental

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 whatsoever shall be deemed waived unless made in writing 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 profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim 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.



ARDINAL LABORATORIES

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

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

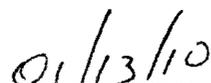
Analysis Date: 01/11/10
Sampling Date: 01/04/10 & 01/05/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5.5°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		510
True Value QC		500
% Recovery		102
Relative Percent Difference		2.0

METHOD: Standard Methods	4500-ClB
--------------------------	----------

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


Chemist


Date

H19001 Basin Environmental

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 whatsoever shall be deemed waived unless made in writing 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 profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim 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.



ARDINAL LABORATORIES

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

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
Reporting Date: 01/08/10
Project Number: BOPCO, LP (24511)
Project Name: COBB FEDERAL #1
Project Location: EDDY CO., NM

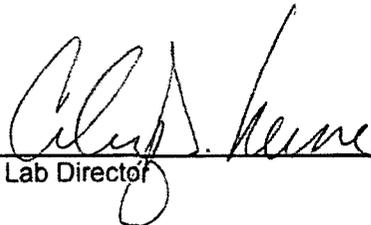
Sampling Date: 01/04/10 & 01/05/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5.5°C
Sample Received By: JH
Analyzed By: AB/ZL

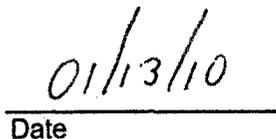
LAB NO.	SAMPLE ID	GRO (C ₈ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	DRO ext. (>C ₂₈ -C ₃₅) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
---------	-----------	--	--	---	--------------------	--------------------	-----------------------------	-----------------------------

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
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.


Lab Director


Date

H19001 TPHextBTEX BASIN

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CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(575) 393-2326 Fax (575) 393-2476

Company Name: BASIN ENV CONSULTING Project Manager: CAMILLE BRYANT Address: 2800 PLAINS AVE City: LOUISIANA State: NM Zip: 88260 Phone #: 575-605-7210 Fax #: 575-396-1429 Project #: 24511 Project Owner: BOPCO Project Name: COBB FEDERAL #1 Project Location: FLOYD COUNTY, NM Sampler Name: (H) Sample #1		BILL TO P.O. #: 24511 Company: BOPCO Attn: TONY SAUCIE Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
Lab I.D. H19001-1 SB-2@S' -2 SB-2@15' -3 SB-2@25' -4 SB-2@35' -5 SB-2@45' -6 SB-2@50' -7 SB-2@55' -8 SB-2@60' -9 SB-3@5' -10 SB-3@15'	Sample I.D. G G G G G G G G G	MATRIX <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> WASTEWATER <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> # CONTAINERS <input type="checkbox"/> (GRAB OR COMP)	PRESERV <input checked="" type="checkbox"/> ACID/BASE <input type="checkbox"/> ICE/COOL <input type="checkbox"/> OTHER:	SAMPLING DATE: 1/4/2010 TIME: 0800 0830 0900 0950 1025 1130 1205 1235 1350 1420	<input checked="" type="checkbox"/> CHLORIDE <input checked="" type="checkbox"/> TPT BOISM EXT <input checked="" type="checkbox"/> BTEX @0210

PLEASE NOTE: LIABILITY AND DAMAGES, CARDINAL'S LIABILITY AND CLIENT'S EXCLUSIVE REMEDY FOR ANY CLAIM ARISING HEREAFTER BASED IN CONTRACT OR TORT, SHALL BE LIMITED TO THE AMOUNT PAID BY THE CLIENT FOR THE ANALYSIS. ALL CLAIMS INCLUDING THOSE FOR NEGLIGENCE AND ANY OTHER CAUSE WHATSOEVER SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING AND RECEIVED BY CARDINAL WITHIN 30 DAYS AFTER COMPLETION OF THE APPLICABLE SERVICE. IN NO EVENT SHALL CARDINAL BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, BUSINESS INTERRUPTION, LOSS OF USE, OR LOSS OF PROFITS INCURRED BY CLIENT, IN SUBSTITUTION, ATTORNEY'S FEES, OR REASONABLE ATTORNEY'S FEES. THE PERFORMANCE OF SERVICES HEREUNDER BY CARDINAL LABORATORIES IS BASED UPON A FIRM OF THE ABOVE STATED REASONS OR OTHERWISE.

Sampler Relinquished: Date: 1/17/10 Time: 0925
Relinquished By: Camille Bryant
Received By: Tony Saucie
 Date: 1/17/10 Time: 1025
Delivered By: (Circle One) Camille Bryant
 Date: 1/17/10 Time: 1025
Temp: 55°C
Checked By: (Initials) CBY
Sampler - UPS - Bus - Other:

Phone Result: No Add'l Phone #:
Fax Result: No Add'l Fax #:
REMARKS:

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

#26

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Company Name: BASIN ENV. CONSULTING Project Manager: CAMILLE BRYANT Address: 2800 PLAINS AVE City: LOUINGTON State: NM Zip: 88260 Phone #: 575-605-7210 Fax #: 575-396-1429 Project #: 24511 Project Owner: BOPCO Project Name: CABB FEDERAL #1 Project Location: GROV COUNTY NM Sampler Name: HD Sampling at S. Bryant		BILL TO P.O. #: 24511 Company: BOPCO Attn: TONY SAVOIE Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST Chloride HCOO TPT BEISM BIT BTE X B0216										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	MATRIX	OTHER:	ACID/BASE	ICE / COOL	OTHER:	PRESERV.	SAMPLING	DATE	TIME
H19DD-21	SB-4@35'	15	1	SOIL		SOIL			X				11/5	1025
-22	SB-4@45'												1120	1150
-23	SB-4@55'												1220	1250
-24	SB-4@60'												1305	1330
-25	SB-4@65'													
-26	SB-4@70'													
-27	SB-4@75'													

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Sampler Relinquished: *[Signature]* Date: 11/7/10 Time: 09:25

Received By: *[Signature]* Date: 11/7/10 Time: 10:25

Relinquished By: *[Signature]*

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: UPS

Temp.: 5.5°C **Sample Condition:** Cool Intact Yes No No

Checked By: *[Signature]* (Initials) epk

Phone Result: No **Add'l Phone #:** _____
Fax Result: No **Add'l Fax #:** _____

REMARKS:

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



ARDINAL LABORATORIES

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

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 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 524.2	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

This report conforms with NELAP requirements.



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

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
 Reporting Date: 01/08/10
 Project Number: BOPCO, LP (24 511)
 Project Name: COBB FEDERAL #1
 Project Location: EDDY CO., NM

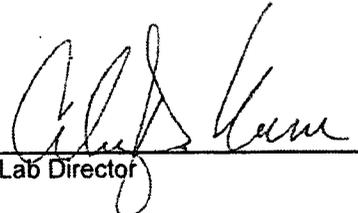
Sampling Date: 01/05/10 & 01/06/10
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 5.5°C
 Sample Received By: JH
 Analyzed By: AB/ZL

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	DRO ext. (>C ₂₈ -C ₃₅) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (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	17.2	<10.0	<0.050	<0.050	<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.



 Lab Director

01/13/10

 Date

H19000 TPHextBTEX BASIN

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CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(575) 393-2326 Fax (575) 393-2476

Company Name: Basin Env Consulting		BILL TO		ANALYSIS REQUEST	
Project Manager: Carmelle Bryant		P.O. #: 24 511			
Address: 2800 Plains Hwy		Company: Boreo, LP			
City: Lovington		Attn: Tony Savie			
Phone #: (575) 685-7210		Address:			
State: NM		City:			
Zip: 88240		State:			
Project #: 24 511		Phone #:			
Project Name: Cobb Federal #1		Fax #:			
Project Location: Giddy Co, NM					
Sampler Name: Carmelle Bryant					

Lab I.D.	Sample I.D.	(GRAB OR) (COMP. # CONTAINERS)	MATRIX	PRESERV.	SAMPLING	DATE	TIME
H19000-1	SB-5 @ 5'	5	GROUNDWATER	OTHER	2010	11/5	1400
-2	SB-5 @ 15'	5	GROUNDWATER	ICE / COOL		11/5	1420
-3	SB-5 @ 25'	5	GROUNDWATER	ACID/BASE		11/5	1500
-4	SB-5 @ 35'	5	GROUNDWATER	OTHER		11/6	0840
-5	SB-5 @ 45'	5	GROUNDWATER	SLUDGE		11/6	0915
-6	SB-5 @ 55'	5	GROUNDWATER	SLUDGE		11/6	1000
-7	SB-5 @ 65'	5	GROUNDWATER	SLUDGE		11/6	1030
-8	SB-5 @ 70'	5	GROUNDWATER	SLUDGE		11/6	1100
-9	SB-5 @ 75'	5	GROUNDWATER	SLUDGE		11/6	1130
-10	SB-5 @ 80'	5	GROUNDWATER	SLUDGE		11/6	1200

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Received By: **Carmelle Bryant** Date: **11/17/10** Time: **10:35**

Received By: **Goodi Henderson** Date: **11/17/10** Time: **10:35**

Delivered By: (Circle One) **UPS - Bus - Other:**

Sampler - UPS - Bus - Other: **#26**

Temp: **5.5C** Sample Condition: **Cool Intact** Checked By: **JH**

Phone Result: No Add'l Phone #:

Fax Result: No Add'l Fax #:

REMARKS:

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



CARDINAL LABORATORIES
101 East Mariand, Hobbs, NM 88240

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

Company Name: BASIN ENV CONSULTING Project Manager: Camille Bryant Address: 2800 PLAINS Hbbs City: Lovington Phone #: 575-605-7210 Fax #: 575-3916-1429 State: NM Zip: 88240 Project #: 24511 Project Owner: BOPCO, LP Project Name: Cobb Federal #1 Project Location: Giddy Co, NM Sampler Name: Camille Bryant		BILL TO P.O. #: 24511 Company: BOPCO, LP Attn: Tony Savoie Address: City: State: Zip: Phone #: Fax #:						
Lab I.D. HF000-11 SB-L @ 5' -12 SB-L @ 15' -13 SB-L @ 25' -14 SB-L @ 35' -15 SB-L @ 45' -16 SB-L @ 60' -17 SB-L @ 60' -18 SB-L @ 65' -19 SB-L @ 70'	(GRAB OR COMP) # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME	ANALYSIS REQUEST Chile 4500 TPH 8015 M Extended X BTX 8021 B				
					MATRIX WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME	ANALYSIS REQUEST Chile 4500 TPH 8015 M Extended X BTX 8021 B
					MATRIX WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME	ANALYSIS REQUEST Chile 4500 TPH 8015 M Extended X BTX 8021 B
					MATRIX WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME	ANALYSIS REQUEST Chile 4500 TPH 8015 M Extended X BTX 8021 B
					MATRIX WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME	ANALYSIS REQUEST Chile 4500 TPH 8015 M Extended X BTX 8021 B
					MATRIX WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME	ANALYSIS REQUEST Chile 4500 TPH 8015 M Extended X BTX 8021 B
					MATRIX WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME	ANALYSIS REQUEST Chile 4500 TPH 8015 M Extended X BTX 8021 B
					MATRIX WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME	ANALYSIS REQUEST Chile 4500 TPH 8015 M Extended X BTX 8021 B
					MATRIX WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME	ANALYSIS REQUEST Chile 4500 TPH 8015 M Extended X BTX 8021 B
					MATRIX WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME	ANALYSIS REQUEST Chile 4500 TPH 8015 M Extended X BTX 8021 B

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 THE CLIENT FOR THE ANALYSIS. ALL CLAIMS INCLUDING THOSE FOR NEGLIGENCE AND ANY OTHER CASES WHEREVER MADE IN WRITING AND RECEIVED BY CARDINAL WITHIN 30 DAYS AFTER COMPLETION OF THE APPLICABLE SERVICE. IN NO EVENT SHALL CARDINAL BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, BUSINESS INTERRUPTION, LOSS OF USE, OR LOSS OF PROFITS INCURRED BY CLIENT, ITS SUBSIDIARIES, AFFILIATES OR SUCCESSORS ARISING OUT OF OR RELATED TO THE PERFORMANCE OF SERVICES HEREUNDER BY CARDINAL. CERTAINITY OF WHETHER SUCH CLAIM IS BASED UPON ANY OF THE ABOVE STATED REASONS OR OTHERWISE.

Sampler Relinquished: Camille Bryant Relinquished By:	Received By: Date: 11/7/10 Time: 10:31 Date: 11/7/10 Time: 11:35	Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Temp: 5.5C Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Checked By: [Signature] # 26

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



**ARDINAL
LABORATORIES**

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

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. Keene
Laboratory Director

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

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

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

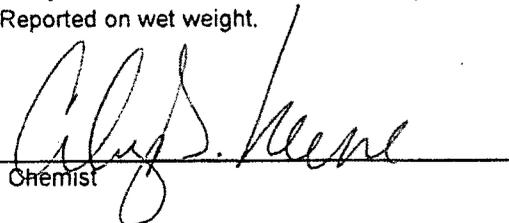
TOTAL METALS

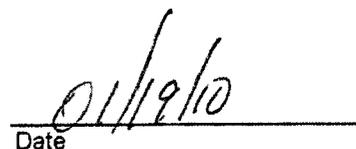
LAB NO.	SAMPLE ID	As (mg/kg)	Mg (mg/kg)	K (mg/kg)
ANALYSIS DATE:		01/18/10	01/18/10	01/18/10
H19002-1	SB-2 @ SURFACE	10.8	3,170	701
H19002-2	SB-2 @ 5'	<10.0	8,900	730
H19002-3	SB-2 @ 35'	<10.0	7,110	1,060
H19002-4	SB-2 @ 40'	16.0	18,800	1,330
H19002-5	SB-2 @ 45'	<10.0	6,740	684
H19002-6	SB-2 @ 50'	11.2	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 Control		5.05	4.95	10.5
True Value QC		5.00	5.00	10.0
% Recovery		101	99	105
Relative Standard Deviation		0.4	1.4	0.5

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

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

Reported on wet weight.


Cheryl Keene
Chemist


Date

H19002M BASIN

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ARDINAL LABORATORIES

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

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

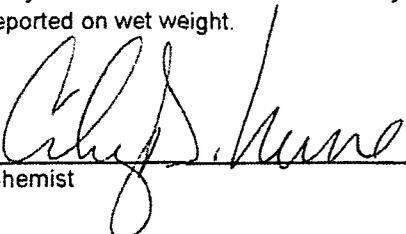
TOTAL METALS

LAB NO.	SAMPLE ID	As (mg/kg)	Mg (mg/kg)	K (mg/kg)
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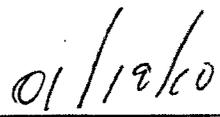
ANALYSIS DATE:	01/18/10	01/18/10	01/18/10
H19002-14 SB-4 @ 65'	12.7	18,400	1,420
H19002-15 SB-4 @ 70'	10.0	13,000	1,350
H19002-16 SB-4 @ 75'	14.3	15,800	1,010
H19002-17 SB-5 @ 25'	<10.0	6,670	752
H19002-18 SB-5 @ 65'	<10.0	5,100	1,150
H19002-19 SB-5 @ 70'	15.1	18,100	1,290
H19002-20 SB-5 @ 75'	<10.0	3,260	630
H19002-21 SB-5 @ 80'	<10.0	9,770	1,200
H19002-22 SB-6 @ 25'	<10.0	6,260	887
H19002-23 SB-6 @ 35'	<10.0	18,000	985
H19002-24 SB-6 @ 60'	<10.0	6,990	1,570
H19002-25 SB-6 @ 65'	10.4	11,000	1,220
H19002-26 SB-6 @ 70'	<10.0	2,870	748
Quality Control	9.80	9.52	25.1
True Value QC	10.0	10.0	25.0
% Recovery	98.0	95.2	100
Relative Standard Deviation	0.1	0.2	<0.1

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



Chemist



Date

H19002M BASIN

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ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(575) 393-2326 Fax (575) 393-2476

BILL TO		ANALYSIS REQUEST														
Company Name:	P.O. #:	Project Manager:	Company:	Attn:	Address:	City:	State:	Zip:	Phone #:	Fax #:	Matrix	Preserv.	Other:	Date	Time	Analysis
ORDINAL ENV. CONSULTING	24511	CAMILLE BRYANT	BOPCO	TONY SAUCIE										1/14	0745	POTASSIUM
2800 PLAINS AVE															0800	ARSENIC
LOUINGTON, NM															0950	
State: NM Zip: 88260															1005	
Phone #: 575-605-7210 Fax #: 575-396-1429															1025	
Project #: 24511 Project Owner: BOPCO															1130	
Project Name: CABB FEDEKAL #1															1250	
Project Location: FRODO COUNTY, NM															1350	
Sampler Name: CABB Feeder for C.S. Bryant															1440	
FOR LAB USE ONLY															1700	
Lab I.D.	Sample I.D.															
HF002-1 SB-2@ SURFACE	1															
2 SB-2@ 5'	1															
3 SB-2@ 35'	1															
4 SB-2@ 40'	1															
5 SB-2@ 45'	1															
6 SB-2@ 50'	1															
7 SB-3@ SURFACE	1															
8 SB-3@ 5'	1															
9 SB-3@ 50'	1															
10 SB-3@ 55'	1															

PLEASE NOTE: LIABILITY AND DAMAGES. CARDINAL'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 SERVICES. IN NO EVENT SHALL CARDINAL BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, BUSINESS INTERRUPTION, LOSS OF DATA, OR LOSS OF PROFITS INCURRED BY CLIENT, ITS SUBSIDIARIES, AFFILIATES OR SUCCESSORS ARISING OUT OF OR RELATED TO THE PERFORMANCE OF SERVICES HEREUNDER. BY SIGNING THIS FORM, CLIENT AGREES TO WAIVE ANY AND ALL SUCH CLAIMS BASED ON ANY OF THE ABOVE STATED REASONS OR OTHERWISE.

Sampler Requisitioned: 1/7/10 Received By: Camille Bryant
 Requisitioned By: [Signature] Date: 0925
 Delivered By: Camille Bryant Date: 1/17/10
 Delivered By: Camille Bryant Date: 1/25

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: UPS

Temp: 5.5C Sample Condition: Intact
 Checked By: [Signature]

Phone Result: No Add'l Phone #:
 Fax Result: No Add'l Fax #:
 REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476. #20



CARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 Fax (575) 393-2476

ANALYSIS REQUEST	
Company Name: <u>BASIN ENV. CONSULTING</u>	BILL TO
Project Manager: <u>CAMILLE BRYANT</u>	P.O. #: <u>24511</u>
Address: <u>2800 PLAINS HWY</u>	Company: <u>BOPCO</u>
City: <u>LOUGHTON</u>	Attn: <u>TONY SAVOIE</u>
State: <u>NM</u> Zip: <u>88260</u>	Address:
Phone #: <u>575-605-7210</u> Fax #: <u>575-396-1429</u>	City:
Project #: <u>24511</u>	State:
Project Name: <u>COBB FEDERAL #1</u>	Phone #:
Project Location: <u>COBB COUNTY, NM</u>	Fax #:
Sampler Name: <u>FDG for C.S. BRYANT</u>	
<small>FOR LAB USE ONLY</small>	
Lab I.D. <u>Sample I.D.</u>	
<u>-21 SB-5@80'</u>	
<u>-22 SB-6@25'</u>	
<u>-23 SB-6@35'</u>	
<u>-24 SB-6@60'</u>	
<u>-25 SB-6@65'</u>	
<u>-26 SB-6@70'</u>	

Matrix: <u>2010</u>	DATE	TIME	DATE	TIME
WASTEWATER	<u>11/6</u>	<u>1200</u>		
GROUNDWATER		<u>1300</u>		
SLUDGE		<u>1320</u>		
OTHER:		<u>1450</u>		
SOIL		<u>1520</u>		
OIL		<u>1550</u>		
ACID/BASE				
ICE / COOL				
OTHER:				
PRESEV.				
(G)RAB OR (C)OMP.				
# CONTAINERS				
Received By: <u>Camille Bryant</u>	Date: <u>11/7/10</u>	Time: <u>0925</u>	Received By: <u>Allen Jensen</u>	Date: <u>11/10</u>
Delivered By: <u>Camille Bryant</u>	Time: <u>1005</u>	Sample Condition: <u>Intact</u>	Checked By: <u>gff</u>	
Sampler - UPS - Bus - Other:				

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Phone Result: No Add'l Phone #:
 Fax Result: No Add'l Fax #:
 REMARKS:

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**ARDINAL
LABORATORIES**

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

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 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 524.2	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

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

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

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
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		510
True Value QC		500
% Recovery		102
Relative Percent Difference		2.0

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

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


Chemist

01/13/10
Date

H19019 Basin Environmental

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ANALYTICAL RESULTS FOR
BASIN ENVIRONMENTAL CONSULTING
ATTN: CAMILLE BRYANT
2800 PLAINS HWY
LOVINGTON, NM 88260
FAX TO: (575) 396-1429

Receiving Date: 01/08/10
Reporting Date: 01/12/10
Project Number: 24511 (BOPCO, LP)
Project Name: COBB FEDERAL #1
Project Location: EDDY CO., NM

Sampling Date: 01/08/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: JH
Analyzed By: AB/ZL

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	DRO ext. (>C ₂₈ -C ₃₅) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (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'	<10.0	<10.0	<10.0	<0.050	0.065	<0.050	<0.300
H19019-2	NORTHEAST S/W @ 10'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H19019-3	WEST S/W @ 10'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H19019-4	EAST S/W @ 10'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H19019-5	SOUTH S/W @ 10'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H19019-6	NORTHWEST CORNER @ 10'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H19019-7	NORTHEAST CORNER @ 10'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H19019-8	SOUTHWEST CORNER @ 10'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H19019-9	SOUTHEAST CORNER @ 10'	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
Quality Control		501	550	-	0.048	0.048	0.049	0.151
True Value QC		500	500	-	0.050	0.050	0.050	0.150
% Recovery		100	110	-	96.0	96.0	98.0	101
Relative Percent Difference		5.0	1.8	-	4.1	4.2	4.0	3.2

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.



Lab Director

01/13/10
Date

H19019 TPHextBTEX BASIN

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**ARDINAL
LABORATORIES**

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

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:

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.

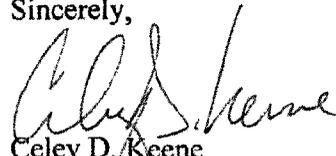
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	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

This report conforms with NELAP requirements.



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

ANALYTICAL RESULTS FOR
 BASIN ENVIRONMENTAL CONSULTING
 ATTN: CAMILLE BRYANT
 2800 PLAINS HWY
 LOVINGTON, NM 88260
 FAX TO: (575) 396-1429

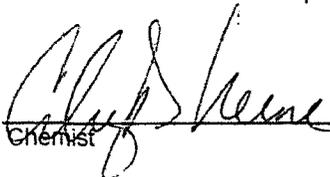
Receiving Date: 01/19/10
 Reporting Date: 01/20/10
 Project Number: BOPCO (24511)
 Project Name: COBB FEDERAL #1
 Project Location: EDDY CO., NM

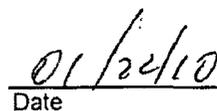
Sampling Date: 01/11/10 - 01/15/10
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 4 °C
 Sample Received By: JH
 Analyzed By: ZL

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.


 Chemist


 Date

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ANALYTICAL RESULTS FOR
 BASIN ENVIRONMENTAL CONSULTING
 ATTN: CAMILLE BRYANT
 2800 PLAINS HWY
 LOVINGTON, NM 88260
 FAX TO: (575) 396-1429

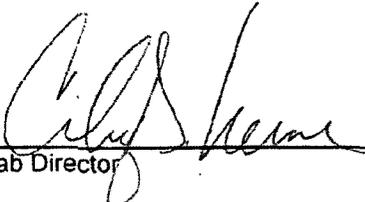
Receiving Date: 01/19/10
 Reporting Date: 01/21/10
 Project Owner: BOPCO (24511)
 Project Name: COBB FEDERAL #1
 Project Location: EDDY COUNTY, NM

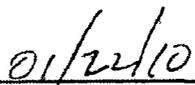
Sampling Date: 01/11/10 - 01/15/10
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 4°C
 Sample Received By: JH
 Analyzed By: AB

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


 Date

H19090 TPHEXT BASIN

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 whatsoever shall be deemed waived unless made in writing 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 profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim 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.



ARDINAL LABORATORIES

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

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

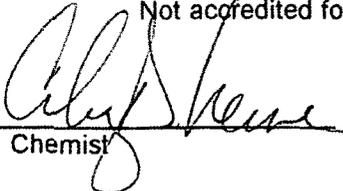
Receiving Date: 01/19/10
Reporting Date: 01/21/10
Project Number: 24511 (BOPCO, LP)
Project Name: COBB FEDERAL #1
Project Location: EDDY COUNTY, NM

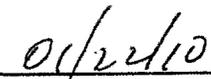
Analysis Date: 01/20/10
Sampling Date: 01/11/10 & 01/12/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		<0.1

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

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


Chemist


Date

H19090 Basin Environmental

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 whatsoever shall be deemed waived unless made in writing 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 profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim 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.



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

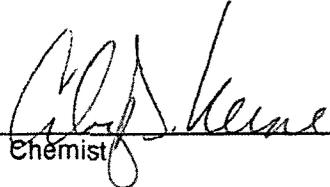
Receiving Date: 01/19/10
 Reporting Date: 01/21/10
 Project Number: 24511 (BOPCO, LP)
 Project Name: COBB FEDERAL #1
 Project Location: EDDY COUNTY, NM

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

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		<0.1

METHOD: Standard Methods 4500-Cl⁻B

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


 Chemist


 Date

H19090 Basin Environmental

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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

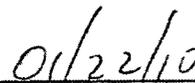
Analysis Date: 01/20/10 & 01/21/10
Sampling Date: 01/13/10 & 01/15/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

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


Chemist


Date

H19090 Basin Environmental

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

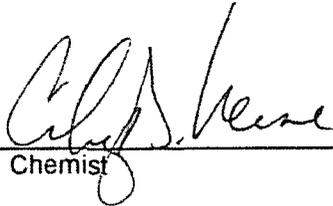
Receiving Date: 01/19/10
Reporting Date: 01/21/10
Project Number: 24511 (BOPCO, LP)
Project Name: COBB FEDERAL #1
Project Location: EDDY COUNTY, NM

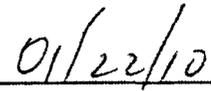
Analysis Date: 01/21/10
Sampling Date: 01/15/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

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


Chemist


Date

H19090 Basin Environmental

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BILL TO		ANALYSIS REQUEST																			
Company Name:	Project Manager:	P.O. #:	Company:	Attn:	Address:	City:	State:	Zip:	Phone #:	Fax #:											
DASIN ENV. CONSULTING	CAMILLE BRYANT	24511	BOPCO	TONY SKUDLIE																	
Address: 2800 PLAINS HWY	State: NM	Zip: 88240																			
City: LAUNGTION	Phone #: 575-605-7210	Fax #: 575-393-1429																			
Project #: 24511	Project Owner: BOPCO																				
Project Name: COBB FEDERAL #1	Project Location: EDOK COUNTY, NM																				
Sampler Name: [Signature]																					
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (COMP)	# CONTAINERS	MATRIX	WASTEWATER	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	PRESERV.	SAMPLING	DATE	TIME	Chloride (4500)	TPH (8000 BCF)	BTEX (8010)
	H19001	SB-7 @ 5'	1	X	X							X					1/11	1000	X	X	X
	-2	SB-7 @ 15'																1040			
	-3	SB-7 @ 25'																1120			
	-4	SB-7 @ 30'																1150			
	-5	SB-7 @ 35'																1300			
	-6	SB-7 @ 45'																1340			
	-7	SB-7 @ 55'																1420			
	-8	SB-7 @ 60'																1500			
	-9	SB-7 @ 65'																1545			
	-10	SB-7 @ 70'																1630			

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Sampler Relinquished: [Signature] Date: 1/13/10 Received By: Camille Bryant

Relinquished By: [Signature] Date: 1/13/10 Received By: Jacki Newman

Delivered By: (Circle One) 4pc Temp. Intact: Yes [X] No []

Sampler - UPS - Bus - Other: #26

Phone Result: [] No Add'l Phone #: [] No Add'l Fax #: []

Fax Result: [] No Add'l Fax #: []

REMARKS:

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



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BILL TO		ANALYSIS REQUEST													
Company Name: BASINEM CONSULTING		P.O. #: 24511		Company: BOPCO		Attn: TOM SAUGIE		Address:		City:		State:		Zip:	
Project Manager: CAMILLE BRYANT		Address: 2800 PLAINS HWY		State: NM		Zip: 88260		Phone #: 575-605-7210		Fax #: 575-374-1427		Project #: 24511		Project Owner: BOPCO	
Project Name: COBB FEDERAL #1		Project Location: EDGAR COUNTY, NM		Project Name: COBB FEDERAL #1		Project Location: EDGAR COUNTY, NM		Project Name: COBB FEDERAL #1		Project Location: EDGAR COUNTY, NM		Project Name: COBB FEDERAL #1		Project Location: EDGAR COUNTY, NM	
Sampler Name: C.A. D. S.		FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING		DATE		TIME			
Lab I.D.	Sample I.D.	(G)RAB OR (COMP)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:	DATE	TIME	
HA090-11	5B-7@75'	1	1	X						X			1/11	1650	X
-12	5B-8@5'	1	1										1/12	0910	X
-13	5B-8@15'	1	1										0945		
-14	5B-8@25'	1	1										1020		
-15	5B-8@35'	1	1										1055		
-16	5B-8@45'	1	1										1140		
-17	5B-8@55'	1	1										1225		
-18	5B-8@65'	1	1										1310		
-19	5B-8@75'	1	1										1350		
-20	5B-8@80'	1	1										1440		

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Sampler Relinquished: C.A. D. S. Date: 1/11/10 Received By: Cammie Bryant

Reinquired By: Cammie Bryant Date: 1/13 Received By: Yodi Benson

Delivered By: (Circle One) Cammie Bryant Date: 1/13 Received By: Yodi Benson

Sampler - UPS - Bus - Other: UPS

Temp: 40 Sample Condition: Cool Intact

Checked By: Yodi Benson (Initials) YB

REMARKS:

Phone Result: No Add'l Phone #:

Fax Result: No Add'l Fax #:

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

#26



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

Company Name: BASINEM CONSULTING		P.O. #: 24511		BILL TO		ANALYSIS REQUEST	
Project Manager: CAMILLE BEQUET		Company: BOPCO		PRESERV:		DATE TIME	
Address: 2800 PLAINS HWY		Attn: TOM SKIDLE		ACID/BASE:		OTHER:	
City: LAUNGTON		Address:		ICE/COOL:		OTHER:	
State: NM		City:		SLUDGE:		OTHER:	
Phone #: 575-605-7210		State:		OIL:		OTHER:	
Fax #: 575-374-1479		Phone #:		WASTEWATER:		OTHER:	
Project #: 24511		Fax #:		GROUNDWATER:		OTHER:	
Project Name: COBB FEDERAL #1		Matrix:		# CONTAINERS:		OTHER:	
Project Location: EDP QUARTY, NM		Matrix:		(GRAB OR COMP):		OTHER:	
Sampler Name: [Signature]		Matrix:		Sample I.D.:		OTHER:	
FOR LAB USE ONLY		Matrix:		Sample I.D.:		OTHER:	
19C9D21	SB-8@BS'	1	SOIL	1	1/12/1505	X	Chloride (400)
12	SB-9@S'	1	SOIL	1	1520	X	TPH (BOM BT)
13	SB-9@15'	1	SOIL	1	1530	X	BTX (BOM BT)
14	SB-9@20'	1	SOIL	1	1540	X	
15	SB-10@S'	1	SOIL	1	1555	X	
16	SB-10@15'	1	SOIL	1	1405	X	
17	SB-10@20'	1	SOIL	1	1620	X	
18	SB-11@S'	1	SOIL	1	1130920	X	
19	SB-11@15'	1	SOIL	1	0950	X	
20	SB-11@25'	1	SOIL	1	1015	X	

PLEASE NOTE: Cardinal is not liable for incidents or consequential damages, including without limitation business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or subcontractors arising out of or related to the performance of services hereunder by Cardinal, no matter how caused, unless otherwise stated on any of the above stated requests or orders.

Phone Result: No Add'l Phone #:
 Fax Result: No Add'l Fax #:
 REMARKS:

Sampler Relinquished: [Signature] Date: 1/13/10 Time: 11:13
 Received By: Camille Bequet
 Relinquished By: [Signature] Date: 1/13/10 Time: 11:13
 Received By: [Signature]
 Delivered By: (Circle One) Camille Bequet
 Sampler - UPS - Bus - Other: [Signature]

Sample Condition: Cool Intact Yes No
 Checked By: [Signature]

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476. #20



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FOR LAB USE ONLY		BILL TO		ANALYSIS REQUEST																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	PRESERV	SAMPLING	DATE	TIME	Chloride (Asst)				TPH (BISM EXT)		BTEX (BETID)	
H1909D-31	SB-11@35'			X						X					11/3	1050	X							
-32	SB-11@45'														11/5	1150								
-33	SB-11@55'														1220	1220								
-34	SB-11@45'														1250	1320								
-35	SB-11@70'														115	0830								
-36	SB-11@75'														0900	0920								
-37	SB-11@80'														0940	0940								
-38	SB-7@5'																							
-39	SB-12@15'																							
-40	SB-12@25'																							

Company Name: BASIN ENV CONSULTING
Project Manager: CAMILLE BRYANT
Address: 2800 PLAINS HWY
City: LAUNGTON State: NM Zip: 88260
Phone #: 575-605-7210 Fax #: 575-394-1427
Project #: 24511 Project Owner: BOPCO
Project Name: COBB FEDERAL #1
Project Location: EDRA COUNTY, NM
Sampler Name: [Signature]

P.O. #: 24511
Company: BOPCO
Attn: TONY SKAGIS
Address:
City:
State:
Phone #:
Fax #:

Received By: [Signature] Date: 11/8/10 Time: 1013
Received By: [Signature] Date: 11/10/10 Time: 8:30
Delivered By: (Circle One) [Signature] [Signature] [Signature]
Cool Intact: [X] Yes [] No
Checked By: [Signature]

Phone Result: [] No Add'l Phone #: [] No
Fax Result: [] No Add'l Fax #: [] No

REMARKS:

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Company Name: PASIENNY CONSULTING Project Manager: CAMILLE BRYANT Address: 2800 PLAINS HWY City: LAUNGTON State: NM Zip: 88260 Phone #: 575-605-7210 Fax #: 575-396-1429 Project #: 24511 Project Owner: BOPCO Project Name: COBB FEDERAL #1 Project Location: EDRA COUNTY, NM Sampler Name: CHDGE		BILL TO P.O. #: 24511 Company: BOPCO Attn: TONY SKUDIE Address: City: State: Zip: Phone #: Fax #:			
Lab ID H1909D-41 -42 -43 -44 -45 -46 -47 -48 -49 -50	Sample ID SB-12@35' SB-12@45' SB-12@55' SB-12@65' SB-12@75' SB-12@80' SB-12@85' SB-12@90' SB-13@5' SB-13@15'	MATRIX (GRAB OR (COMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV. ACID/BASE ICE/COOL OTHER:	SAMPLING DATE TIME 11/5/00 1000 1020 1050 1100 1120 1140 1155 1230 1310 1330	ANALYSIS REQUEST Chloride (Asst) TPH (BOSTM EXT) BTEX (BOSTM)

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Sampler Relinquished: CHDGE Date: 11/10/00 Time: 11:43 Onby: Camille Bryant	Received By: Camille Bryant	Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: REMARKS:
Relinquished By: Camille Bryant	Received By: Julie Henderson	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Temp: 4°C Sample Condition: Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	

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

#26



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

Company Name: BASIN ENV CONSULTING		BILL TO						
Project Manager: CAMILLE BRYANT		P.O. #: 24511						
Address: 2800 PLAINS HWY		Company: BOPCO						
City: LOUINGTON State: NM Zip: 88240		Attn: TOMY SKUBIS						
Phone #: 575-605-7101 Fax #: 575-394-1421		Address:						
Project #: 24511 Project Owner: BOPCO		City:						
Project Name: COBB FEDERAL #1		State:						
Project Location: EDDY COUNTY, NM		Phone #:						
Sampler Name: [Signature]		Fax #:						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESEV.	SAMPLING	DATE	TIME
H1909D-51	SB-13@25'	1	1	GROUNDWATER	ACID/BASE	None	1/15	1400
-52	SB-13@35'	1	1	SOIL	ICE / COOL	None	1420	
-53	SB-13@45'	1	1	SLUDGE	OTHER:	None	1440	
-54	SB-13@55'	1	1	WASTEWATER	OTHER:	None	1570	
-55	SB-13@65'	1	1	SOIL	OTHER:	None	1535	
-56	SB-13@75'	1	1	GROUNDWATER	OTHER:	None	1640	
-57	SB-13@85'	1	1	SLUDGE	OTHER:	None	1645	
-58	SB-13@95'	1	1	WASTEWATER	OTHER:	None	1705	

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Sampler Relinquished: [Signature] Date: 1/18/10 Received By: Camille Bryant
 Relinquished By: [Signature] Date: 1/19/10 Received By: Jackie Henderson
 Delivered By: (Circle One) Camille Bryant Temp: 40C Sample Condition: Cool Intact Yes No Checked By: [Signature]
 Sampler - UPS - Bus - Other: [Signature]

ANALYSIS REQUEST

Chloride (4500)	X		
TPH (800M BT)			
BTEX (80210)			

Phone Result: No Add'l Phone #:
 Fax Result: No Add'l Fax #:
 REMARKS:

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



ARDINAL LABORATORIES

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

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 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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



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

ANALYTICAL RESULTS FOR
 BASIN ENVIRONMENTAL CONSULTING
 ATTN: CAMILLE BRYANT
 2800 PLAINS HWY
 LOVINGTON, NM 88260
 FAX TO: (575) 396-1429

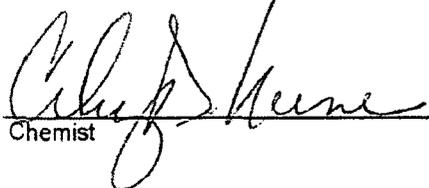
Receiving Date: 01/19/10
 Reporting Date: 01/25/10
 Project Number: BOPCO (24511)
 Project Name: COBB FEDERAL #1
 Project Location: EDDY CO., NM

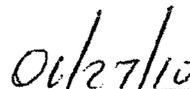
Sampling Date: 01/12/10
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 4 °C
 Sample Received By: JH
 Analyzed By: ZL

LAB NUMBER 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

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
 AND TOTAL XYLENES. Reported on wet weight.


 Chemist


 Date

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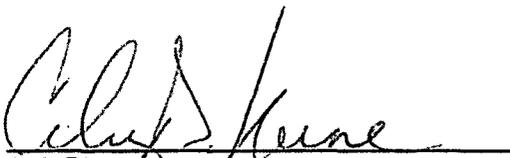
Receiving Date: 01/19/10
Reporting Date: 01/27/10
Project Owner: BOPCO (24511)
Project Name: COBB FEDERAL #1
Project Location: EDDY COUNTY, NM

Sampling Date: 01/12/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4°C
Sample Received By: JH
Analyzed By: AB

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

ANALYSIS DATE	01/25/10	01/25/10	01/25/10
H19090-25 SB-10 @ 5'	<10.0	42.7	<10.0
Quality Control	499	479	-
True Value QC	500	500	-
% Recovery	99.8	95.8	-
Relative Percent Difference	7.5	6.5	-

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

H19090-25 TPHEXT BASIN

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FAX TO: (575) 396-1429

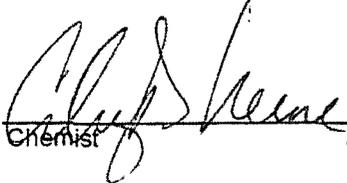
Receiving Date: 01/19/10
Reporting Date: 01/20/10
Project Number: BOPCO (24511)
Project Name: COBB FEDERAL #1
Project Location: EDDY CO., NM

Sampling Date: 01/11/10 - 01/15/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4 °C
Sample Received By: JH
Analyzed By: ZL

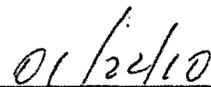
LAB NUMBE SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	01/19/10	01/19/10	01/19/10	01/19/10
H19090-1 SB-7 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-12 SB-8 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-22 SB-9 @ 5'	<0.050	<0.050	<0.050	<0.300
H19090-28 SB-11 @ 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.



Chemist



Date



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BASIN ENVIRONMENTAL CONSULTING
ATTN: CAMILLE BRYANT
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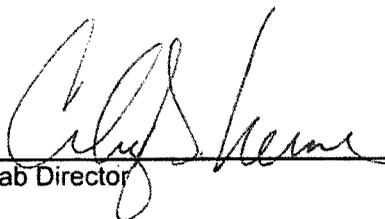
Receiving Date: 01/19/10
Reporting Date: 01/21/10
Project Owner: BOPCO (24511)
Project Name: COBB FEDERAL #1
Project Location: EDDY COUNTY, NM

Sampling Date: 01/11/10 - 01/15/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4°C
Sample Received By: JH
Analyzed By: AB

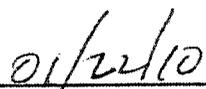
	GRO	DRO	DRO ext.
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	(>C ₂₈ -C ₃₅)
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)

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	-
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



Date

H19090 TPHEXT BASIN

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

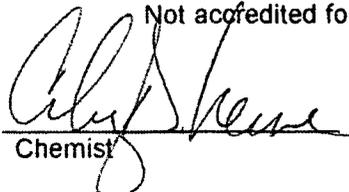
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Reporting Date: 01/21/10
Project Number: 24511 (BOPCO, LP)
Project Name: COBB FEDERAL #1
Project Location: EDDY COUNTY, NM

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

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		<0.1

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

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


Chemist


Date

H19090 Basin Environmental

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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

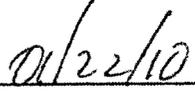
Analysis Date: 01/20/10
Sampling Date: 01/12/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		<0.1

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

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


Chemist


Date

H19090 Basin Environmental

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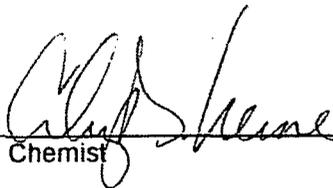
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Reporting Date: 01/21/10
Project Number: 24511 (BOPCO, LP)
Project Name: COBB FEDERAL #1
Project Location: EDDY COUNTY, NM

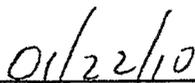
Analysis Date: 01/20/10 & 01/21/10
Sampling Date: 01/13/10 & 01/15/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods 4500-ClB

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


Chemist


Date

H19090 Basin Environmental

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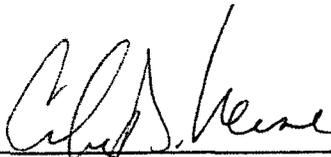
Receiving Date: 01/19/10
Reporting Date: 01/21/10
Project Number: 24511 (BOPCO, LP)
Project Name: COBB FEDERAL #1
Project Location: EDDY COUNTY, NM

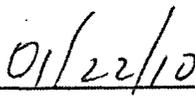
Analysis Date: 01/21/10
Sampling Date: 01/15/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (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 Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

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


Chemist


Date

H19090 Basin Environmental

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

Company Name: <u>WASINEN CONSULTING</u>		P.O. #: <u>24511</u>		ANALYSIS REQUEST					
Project Manager: <u>CAMILLE BEYOND</u>		Company: <u>BOPCO</u>							
Address: <u>2800 PLAINS HWY</u>		Attn: <u>TONY STAGLE</u>							
City: <u>LANGTON</u> State: <u>NM</u> Zip: <u>88260</u>		Address:							
Phone #: <u>505-605-7210</u> Fax #: <u>575-393-1421</u>		City:							
Project #: <u>24511</u> Project Owner: <u>BOPCO</u>		State:							
Project Name: <u>COBB FEDERAL #1</u>		Phone #:							
Project Location: <u>EDRA COUNTY, NM</u>		Fax #:							
Sampler Name: <u>[Signature]</u>									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS
H1909021	SB-8@85'	1	1	WASTEWATER	ACID/BASE		1/12	1505	X
-22	SB-9@5'	1	1	SOIL	ICE / COOL		1520		X X
-23	SB-9@15'	1	1	SLUDGE	OTHER:		1530		
-24	SB-9@20'	1	1	WASTEWATER	OTHER:		1540		
-25	SB-10@5'	1	1	SOIL	OTHER:		1555		
-26	SB-10@15'	1	1	SOIL	OTHER:		1405		
-27	SB-10@20'	1	1	WASTEWATER	OTHER:		1620		
-28	SB-11@5'	1	1	SOIL	OTHER:		1/13	0920	X X
-29	SB-11@15'	1	1	SOIL	OTHER:		0950		
-30	SB-11@25'	1	1	WASTEWATER	OTHER:		1015		

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Sampler Relinquished: [Signature] Date: 1/12/10 Time: 1613

Received By: Camille Beyond Date: 1/13/10 Time: 1613

Relinquished By: [Signature] Date: 1/13/10 Time: 1613

Delivered By: Camille Beyond Date: 1/13/10 Time: 1613

Sampler: UPS - Bus - Other: None

Checked By: [Signature] Initials: JB

Sample Condition: Intact Cool: Yes Yes No

Phone Result: No Add'l Phone #:

Fax Result: No Add'l Fax #:

REMARKS: Chloride (Asst) TPH (POMM BT) BTEX (BZLID)

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

#26



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

Company Name: CASINEM CONSULTING Project Manager: CAMILLE BRYANT Address: 2800 PLAINS HWY City: LAUNGTON State: NM Zip: 88260 Phone #: 575-605-7210 Fax #: 575-394-1429 Project #: 24511 Project Owner: BOPCO Project Name: COBB FEDERAL #1 Project Location: EDEN COUNTY, NM Sampler Name: CHD		BILL TO P.O. #: 24511 Company: BOPCO Attn: TONY SARGIS Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE		PRESERV: ACID/BASE: X ICE / COOL: X OTHER:		SAMPLING DATE: 11/15 1000 TIME: 1020 1040 1100 1120 1140 1155 1230 1310 1330	
Lab I.D. H1909D-41 SB-12@35' -42 SB-12@45' -43 SB-12@55' -44 SB-12@65' -45 SB-12@75' -46 SB-12@80' -47 SB-12@85' -48 SB-12@90' -49 SB-13@5' -50 SB-13@15'		MATRIX: GROUNDWATER WASTEWATER SOIL OIL SLUDGE		Chloride (4500) TPH (BOSM EXT) BTEX (BOSM)	
Sample I.D.		PRESERV: OTHER:		X X X X X X X X X X	

PLEASE NOTE: Liability and damages, Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Sampler Relinquished: Camille Bryant Date: 11/10/10 Time: 11:43	Received By: Camille Bryant	Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: REMARKS:
Relinquished By: Camille Bryant Date: 11/10/10 Time: 8:30	Received By: Julie Henderson	REMARKS:
Delivered By: (Circle One) UPS - Bus - Other:	Temp: 40C Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Checked By: Initials: JH

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476. #26



ARDINAL LABORATORIES

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

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 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 524.2	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

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

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

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 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 524.2	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

This report conforms with NELAP requirements.



CARDINAL LABORATORIES
101 East Mariand, Hobbs, NM 88240

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

Company Name: BASIN ENV. CONSULTING Project Manager: KIMBLE BRYANT Address: 2800 PLAINS HWY City: LONGTON State: NM Zip: 88260 Phone #: 575-605-7210 Fax #: 575-396-4129 Project #: 24511 Project Owner: BORCO Project Name: CORR/FEDERAL #1 Project Location: FORD CO NM Sampler Name: EDDGE		BILL TO P.O. #: 24511 Company: BORCO Attn: TONY SAUZE Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST Chloride (Total) X Nitrate (Total) X Magnesium (Total) X Arsenic (Total) X	
Lab I.D. 119049-1 PIED WATER		MATRIX (G)RAB OR (COM)P. IX # CONTAINERS WASTEWATER SOIL OF SLUDGE OTHER: ACID/BASE ICE / COOL OTHER:		PRESERV. X DATE TIME 1/14 1500	
FOR LAB USE ONLY Sample I.D.		SAMPLING 119049-1		PHONE RESULTS: No Add'l Phone #: <input type="checkbox"/> No Add'l Fax #: <input type="checkbox"/> REMARKS:	

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Sampler Relinquished: Date: 1/18/10 Time: 1613 Received By: Camille Royant

Relinquished By: [Signature] Date: 1/19/10 Time: 0825 Received By: [Signature]

Delivered By: (Circle One) [Signature] Date: 01/19/10 Time: 0825

Temp: 00 Sample Condition: Cool Intact
 Dry Wet No No

Checked By: [Signature] (Initials) JH

Sampler - UPS - Bus - Other:

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

#26



ARDINAL LABORATORIES

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

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 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 524.2	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

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

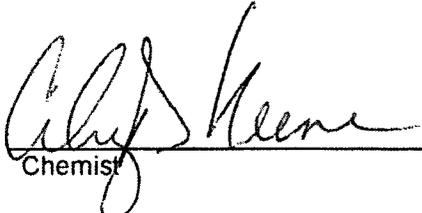
PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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	Cl ⁻ (mg/L)	TDS (mg/L)
Analysis Date:		01/31/10	01/29/10
H19163-1	MW-1	41,000	63,200
H19163-2	MW-2	134,000	215,000
H19163-3	MW-3	124	773
H19163-4	MW-4	51,000	72,500
H19163-5	MW-5	83,000	118,000
H19163-6	MW-6	424	1,440
Quality Control		500	NR
True Value QC		500	NR
% Recovery		100	NR
Relative Percent Difference		2.0	0.5
METHOD: Standard Methods, EPA		4500-Cl ⁻ B	160.1


Chemist


Date

H19163 Basin Environmental

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CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

BILL TO		ANALYSIS REQUEST															
Company Name: BAIN ENV. CONSULTING Address: 2800 Plains Hwy City: Lovington Phone #: 575 605 7210 Project #: 24 511		P.O. #: 24 511 Company: Boreo, LP Attn: Tony Savioie Address: City: State: Zip:		Project Name: Cobb Federal #1 Project Location: Eddy Co, NM Sampler Name: Carmelle Bryant for Cobalt Reynolds		Matrix: <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER:		Preserv: <input checked="" type="checkbox"/> ICE/COOL <input type="checkbox"/> OTHER:		DATE: 2010 TIME:		Chitnick 4560 TDS					
Lab I.D.: Sample I.D. MW-1 MW-2 MW-3 MW-4 MW-5 MW-6		(G)RAB OR (C)OMP: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1		# CONTAINERS: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1		WASTEWATER: <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1		SOIL: <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1		SLUDGE: <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1		OTHER: <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1		ACID/BASE: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1		OTHER: <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1	
Sampler Requisitioned By: Carmelle Bryant Date: 11/28/10 Time: 7:45		Received By: [Signature] Date: 11/28/10 Time: 9:00		Temp: 10°C Sample Condition: Cooled <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Temp: 10°C Sample Condition: Cooled <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Checked By: [Signature] Initials: [Signature]		Delivered By: (Circle One) <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other		Phone Result: <input type="checkbox"/> No Phone Result: <input type="checkbox"/> No		Add'l Phone #: Add'l Fax #:			

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#26

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)

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
Work Order Number: 367139

Report Date: 07-APR-10
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



Certificate of Analysis Summary 367139

Basin Environmental Consulting, LLC, Lovington, NM



Project Name: GH Cobb Federal #1

Date Received in Lab: Mon Mar-29-10 08:50 am
Report Date: 07-APR-10
Project Manager: Brent Barron, II

Project Id: 24511
Contact: Camille Bryant
Project Location: Eddy County, NM

<i>Analysis Requested</i>		<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>
BTEX by EPA 8021B		367139-001 Produced Water Tank	367139-002 MW-2		WATER	Mar-24-10 10:50	Mar-30-10 08:00	Mar-30-10 21:14	mg/L RL
					WATER	Mar-24-10 13:30			mg/L RL
Benzene									0.0208 0.0200
Toluene									ND 0.0400
Ethylbenzene									ND 0.0200
m,p-Xylenes									0.0432 0.0400
o-Xylenes									ND 0.0200
Total Xylenes									0.0432 0.0200
Total BTEX									0.0640 0.0200
TCLP Mercury by SW 7470A									
							Apr-06-10 09:30	Apr-06-10 09:30	mg/L RL
							Apr-06-10 16:37	Apr-06-10 16:37	mg/L RL
Mercury									ND 0.0001
TCLP Metals by SW846 6010B									
							Mar-30-10 09:00	Mar-30-10 09:00	mg/L RL
							Mar-31-10 09:17	Mar-31-10 09:17	mg/L RL
Lead									ND 2.22
Arsenic									ND 2.22
Cadmium									ND 0.111
Chromium									ND 0.556
Selenium									ND 2.22
Silver									ND 0.444
Barium									2.06 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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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
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,

Project ID: 24511

Lab Batch #: 800413

Sample: 559446-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/30/10 07:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Lab Batch #: 800413

Sample: 559446-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/30/10 08:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 800413

Sample: 559446-1-BLK / BLK

Batch: 1 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

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0264	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

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: GH Cobb Federal #1

Work Orders : 367139,

Project ID: 24511

Lab Batch #: 800413

Sample: 366845-004 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/30/10 21:35

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0225	0.0300	75	80-120	*

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries

Project Name: GH Cobb Federal #1

Work Order #: 367139 Project ID: 24511
 Analyst: ASA Date Analyzed: 03/30/2010
 Lab Batch ID: 800413 Sample: 559446-1-BKS Batch #: 1 Matrix: Water
 Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
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
BTEX by EPA 8021B	ND	0.1000	0.0824	82	0.1	0.0877	88	6	70-125	25	
Benzene	ND	0.1000	0.0832	83	0.1	0.0889	89	7	70-125	25	
Toluene	ND	0.1000	0.0848	85	0.1	0.0905	91	7	71-129	25	
Ethylbenzene	ND	0.2000	0.1744	87	0.2	0.1855	93	6	70-131	25	
m,p-Xylenes	ND	0.1000	0.0866	87	0.1	0.0924	92	6	71-133	25	
o-Xylene	ND										

Analyst: LATCOR Date Prepared: 04/06/2010 Date Analyzed: 04/06/2010
 Lab Batch ID: 801218 Sample: 559946-1-BKS Batch #: 1 Matrix: Water

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
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
TCLP Mercury by SW 7470A	ND	0.0010	0.0012	120	0.001	0.0011	110	9	75-125	20	
Mercury	ND										

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



Project Name: GH Cobb Federal #1

Work Order #: 367139

Analyst: LATCOR

Lab Batch ID: 800960

Sample: 559493-1-BKS

Batch #: 1

Date Prepared: 03/30/2010

Project ID: 24511

Date Analyzed: 03/31/2010

Matrix: Water

Units: mg/L

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

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
TCLP Metals by SW846 6010B											
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 Batch #: 1 Matrix: Water

Date Analyzed: 03/30/2010

Date Prepared: 03/30/2010 Analyst: ASA

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

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
BTEX by EPA 8021B											
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 #: 1 Matrix: Soil

Date Analyzed: 04/06/2010

Date Prepared: 04/06/2010 Analyst: LATCOR

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

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
TCLP Mercury by SW 7470A											
Mercury	ND	0.0010	0.0013	130	0.0010	0.0012	120	8	75-125	20	X

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applied
n = See Narrative, EOL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: GH Cobb Federal #1

Work Order #: 367139

Project ID: 24511

Lab Batch ID: 800960

QC-Sample ID: 366845-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 03/31/2010

Date Prepared: 03/30/2010

Analyst: LATCOR

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	X

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: GH Cobb Federal #1

Work Order #: 367139

Lab Batch #: 800960

Project ID: 24511

Date Analyzed: 03/31/2010

Date Prepared: 03/30/2010

Analyst: LATCOR

QC- Sample ID: 366845-001-D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TCLP Metals by SW846 6010B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
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	NC	25	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

Environmental Lab of Texas
 Variance/ Corrective Action Report- Sample Log-In

Client: Basin Env.
 Date/ Time: 03-29-10 @ 0850
 Lab ID #: 367139
 Initials: JMF

Sample Receipt Checklist

				Client Initials	
#1	Temperature of container/ cooler?	<input checked="" type="radio"/> Yes	No	1.6 °C	
#2	Shipping container in good condition?	<input checked="" type="radio"/> Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<input checked="" type="radio"/> Not Present	
#4	Custody Seals intact on sample bottles/ container? / 16 vial	<input checked="" type="radio"/> Yes	No	Not Present	
#5	Chain of Custody present?	<input checked="" type="radio"/> Yes	No		
#6	Sample instructions complete of Chain of Custody?	<input checked="" type="radio"/> Yes	No		
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="radio"/> Yes	No		
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="radio"/> Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<input checked="" type="radio"/> Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="radio"/> Yes	No		
#11	Containers supplied by ELOT?	<input checked="" type="radio"/> Yes	No		
#12	Samples in proper container/ bottle?	<input checked="" type="radio"/> Yes	No	See Below	
#13	Samples properly preserved?	<input checked="" type="radio"/> Yes	No	See Below	
#14	Sample bottles intact?	<input checked="" type="radio"/> Yes	No		
#15	Preservations documented on Chain of Custody?	<input checked="" type="radio"/> Yes	No		
#16	Containers documented on Chain of Custody?	<input checked="" type="radio"/> Yes	No		
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="radio"/> Yes	No	See Below	
#18	All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	<input checked="" type="radio"/> No	Not Applicable	
#20	VOC samples have zero headspace?	<input checked="" type="radio"/> Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event



ARDINAL LABORATORIES

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

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
Method TX 1005	Total Petroleum Hydrocarbons

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

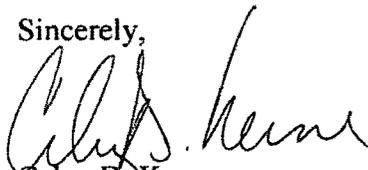
Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

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

This report conforms with NELAP requirements.

ANALYSIS REQUEST	
Company Name: Basin Environmental Consulting Project Manager: Camille Bryant Address: 2800 Plains Hwy City: Loriaston State: NM Zip: 88260 Phone #: 575-655-7210 Fax #: 575-396-1429 Project #: 24511 Project Owner: Bopeco Project Name: GH Cobbo Lecleral #1 Project Location: Edcky Co, NM Sampler Name: Lance Reynolds	P.O. #: _____ Company: Bopeco Attn: Lony Saroie Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____
(G) RAB OR (C) MP. 1X # CONTAINERS 11 GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: _____ MATRIX	PRESERV. 2010 ACID/BASE: _____ ICE / COOL: _____ OTHER: _____ DATE 6/3 TIME 1545 1630 1515 1615 1600 1500
Lab I.D. H20054-1 MW-1 2 MW-2 3 MW-3 4 MW-4 5 MW-5 6 MW-6	SAMPLES Chlorides 400

PLEASE NOTE: LIABILITY AND DAMAGES, CARDINALS 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 ANALYSIS. ALL CLAIMS INCLUDING THOSE FOR NEGLIGENCE AND ANY OTHER CAUSE WHATSOEVER SHALL BE DENIED UNLESS MADE IN WRITING AND RECEIVED BY CARDINAL WITHIN 30 DAYS AFTER COMPLETION OF THE APPLICABLE SERVICE. IN NO EVENT SHALL CARDINAL BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, BUSINESS INTERRUPTION, LOSS OF USE, OR LOSS OF PROFITS INCURRED BY CLIENT, ITS SUBSIDIARIES, AFFILIATES OR SUCCESSORS, ARISING OUT OF OR RELATED TO THE PERFORMANCE OF SERVICES RENDERED BY CARDINAL, REGARDLESS OF WHETHER SUCH CLAIM IS BASED UPON ANY OF THE ABOVE STATED REASONS OR CAUSES.

Sampler Relinquished By: Camille Bryant Relinquished By: Lance Reynolds Delivered By: Lance Reynolds Sampler - UPS - Bus - Other: _____	Received By: Bobby L. Stalder Received By: Adi Benson Temp: 6°C Sample Condition: Intact Cool/Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: Adi Benson (Initials) JB	Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: _____ REMARKS: _____
---	---	--

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

#726

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 Hydrocarbons

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

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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: NONE GIVEN
 Project Location: 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	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	43000	4.00	09/22/2010	ND	104	104	100	3.77		

Sample ID: MW - 2 (H020891-02)

Chloride, SM4500CI-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	140000	4.00	09/22/2010	ND	104	104	100	3.77		

Sample ID: MW - 3 (H020891-03)

Chloride, SM4500CI-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	220	4.00	09/22/2010	ND	104	104	100	3.77		

Sample ID: MW - 4 (H020891-04)

Chloride, SM4500CI-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48000	4.00	09/22/2010	ND	104	104	100	3.77		

Sample ID: MW - 5 (H020891-05)

Chloride, SM4500CI-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	76000	4.00	09/22/2010	ND	104	104	100	3.77		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BASIN ENVIRONMENTAL CONSULTING
 CAMILLE BRYANT
 P. O. BOX 381
 LOVINGTON NM, 88260
 Fax To: (575) 396-1429

Received:	09/21/2010	Sampling Date:	09/17/2010
Reported:	09/23/2010	Sampling Type:	Water
Project Name:	G H COBB FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MW - 6 (H020891-06)

Chloride, SM4500Cl-B

mg/L

Analyzed 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

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Company Name: Basin Environmentally Consulting Project Manager: Camille Bryant Address: 2300 Plains Hwy City: Lovington State: NM Zip: 88260 Phone: (575) 396-2378 Fax: (575) 396-1429 Project #: Project Owner: 100PCO Project Name: G.H. Cobb Federal #1 Project Location: Eddy Co, NM Sampler Name: SOE Caves		BILL TO Company: BOPCO Attn: Tony Savoie Address: City: State: Phone #: Fax #:		ANALYSIS REQUEST	
FOR LAB USE ONLY Lab I.D. Sample I.D. MW0891-1 mw-1 2 mw-2 3 mw-3 4 mw-4 5 mw-5 6 mw-6	(GRAB OR COMPOUND) CONTAINERS # CONTAINERS GROUNDWATER WASTEWATER SOIL OTHER:	MATRIX GROUNDWATER WASTEWATER SOIL OTHER:	PRESERV ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME	2010 9/17 1400 1430 1330 1300 1230

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 the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. This does not constitute an offer of insurance or any other financial product. Cardinal is not a financial institution and does not provide insurance or any other financial product. Cardinal is not a financial institution and does not provide insurance or any other financial product.

Sampler Relinquished: Date: 9/17/10 Time: 12:10
 Received By: [Signature]
 Relinquished By: [Signature]
 Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: UPS
 Sample Condition: Cool Intact
 Checked By: [Signature]
 Phone Result: No Add'l Phone #: 575-393-2476
 Fax Result: No Add'l Fax #: 575-393-2476
 REMARKS: Chilled & stored



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
DEC - 7 2009
NMOCD ARTESIA

Form C-141
Revised October 10, 2003
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-05829

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company BOPCO, L.P. <u>260737</u>	Contact Tony Savoie
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 432-556-8730
Facility Name: G.H. Cobb Federal #1	Facility Type E&P

Surface Owner Federal	Mineral Owner Federal	Lease No. 30-015-05829
-----------------------	-----------------------	------------------------

LOCATION OF RELEASE

Unit Letter M	Section 23	Township 20S	Range 31E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude N 32.33°11.412 Longitude W 103.50°44.304

NATURE OF RELEASE

Type of Release: Produced water, and crude oil sediment	Volume of Release: Un-known	Volume Recovered: 0
Source of Release: Un-lined evaporation pit	Date and Hour of Occurrence Pre 2009	Date and Hour of Discovery 7/1/09
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Operation of the pit ceased prior to 7/1/09, approximately 4000 cubic yards of soil has been removed

Describe Area Affected and Cleanup Action Taken.* Pasture land measuring approximately 80 ft. by 80ft. A remediation closure plan was submitted to the NMOCD on 11/20/09. The area will be partially backfilled, an air rotary rig will be used to define the vertical and horizontal extent of the pit area. A complete remediation and closure plan will be submitted based on the results of the core samples. The pit will be closed under the guidance of the NMOCD pit closure guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <u>Tony Savoie</u>		OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie		Approved by District Supervisor Signed By <u>Mike Beaman</u>	
Title: Waste Mgmt. & Remediation Specialist		Approval Date: <u>MAR 24 2010</u>	Expiration Date:
E-mail Address: TAsavoie@BassPet.com		Conditions of Approval:	
Date: 12/7/09	Phone: 432-556-8730	REMEDATION per OCD Rules and Guidelines. SUBMIT REMEDIATION PROPOSAL BY: Investigation is ongoing as of 3/24/10	

Attached

* Attach Additional Sheets If Necessary

PMLB 0934455618

2 RA-369

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
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.

1.
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

2.
 Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
 Permanent Emergency Cavitation P&A
 Lined Unlined Liner type: Thickness _____ mil LLDPE HDPE PVC Other _____
 String-Reinforced
Liner Seams: Welded Factory Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.
 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: Thickness _____ mil LLDPE HDPE PVC Other _____
Liner Seams: Welded Factory Other _____

4.
 Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: _____ bbl Type of fluid: _____
Tank Construction material: _____
 Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
 Visible sidewalls and liner Visible sidewalls only Other _____
Liner type: Thickness _____ mil HDPE PVC Other _____

5.
 Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6.
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, hospital, institution or church*)

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)

8.
Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

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
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. 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. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.

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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to permanent pits</i>) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

11. **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

16.

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 identify 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 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

17.

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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> 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

19. **Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Steve Johnson

Title: SR, Production

Signature: [Handwritten Signature]

Date: 7/1/09

e-mail address: _____

Telephone: (432) 683-2277

20. **OCD Approval:** Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)

OCD Representative Signature: _____ Approval Date: _____

Title: _____ OCD Permit Number: _____

21. **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: _____

22. **Closure Method:**

- Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)
- If different from approved plan, please explain.

23. **Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

Instructions: Please identify 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 operations:

- Site Reclamation (Photo Documentation)
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique

24. **Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check 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 closure)
- 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 _____ Longitude _____ NAD: 1927 1983

25. **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 division-prescribed 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.