Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260

bjarguijo@basinenv.com

Office: (575) 396-2378 Fax: (575) 396-1429



REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

BOPCO, LP
BASS 3 FEDERAL WELL #4 SPILL SITE "B"
Eddy County, New Mexico
Unit Letter "O" (SW/SE), Section 3, Township 22 South, Range 28 East
Latitude 32.417420° North, Longitude 104.072281° West
NMOCD Reference #2RP-981

Prepared For:

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

Prepared By:
Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260

August 2013

Ben J. Arguijo
Project Manager

TABLE OF CONTENTS

	THEEL OF CONTENTS
1.0	INTRODUCTION & BACKGROUND INFORMATION
2.0	NMOCD SITE CLASSIFICATION
3.0	DISTRIBUTION OF CONTAMINANTS IN THE UNSATURATED ZONE
	3.1 Summary of Soil Remediation Activities
	3.2 Soil Closure Request
4.0	DISTRIBUTION OF CONTAMINANTS IN THE SATURATED ZONE 5
	4.1 Summary of Quarterly Groundwater Monitoring Activities
	4.2 Groundwater Closure Request
5.0	QA/QC PROCEDURES
	5.1 Soil Sampling
	5.2 Groundwater Sampling
	5.3 Decontamination of Equipment
	5.4 Laboratory Protocol
	SITE CLOSURE REQUEST
	LIMITATIONS 8
8.0	DISTRIBUTION9
FIGU	RES
rigo	
Figure	1 – Site Location Map
_	2 – Site & Sample Location Map
8	The state of the s
TABL	ES
Table	1 – Concentrations of Benzene, BTEX, TPH & Chloride in Soil
	2 – Concentrations of Benzene, BTEX, Chloride & TDS in Groundwater
	3 – Concentrations of RCRA & NMWQCC Metals in Groundwater
	4 – Concentrations of Volatile Organic Compounds in Groundwater
	5 – Concentrations of Semi-Volatile Compounds in Groundwater
	6 – Concentrations of Anions & Cations in Groundwater

APPENDICES

Appendix A – Release Notification and Corrective Action (Form C-141)

Appendix B – Photographs

Appendix C – Soil Boring Logs

Appendix D – Laboratory Analytical Reports (Soil)

Appendix E – Laboratory Analytical Reports (Groundwater)

1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the release site known as Bass 3 Federal Well #4 Spill Site "B" (Bass 3 "B"). The legal description of the release site is Unit Letter "O" (SW/SE), Section 3, Township 22 South, Range 28 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.417420° North latitude and 104.072281° West longitude. The property affected by the release is owned by The United States Department of the Interior - Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On December 13, 2011, BOPCO discovered a release had occurred near the Bass 3 Federal #1 tank battery. A two and seven-eighths-inch (2 7/8") steel flow line delivering produced fluid from Bass 3 Federal Well #4 to the tank battery developed a leak, resulting in a release of produced water and crude oil. During initial response activities, the well was shut in, and a temporary clamp was installed to mitigate the release.

The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office. The "Release Notification and Corrective Action" (Form C-141) indicated approximately forty-five barrels (45 bbls) of produced water and approximately five barrels (5 bbls) of crude oil were released, with no recovery. The release affected an area of pasture land measuring approximately five thousand square feet (5,000 ft²).

The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

In conjunction with remediation activities, the steel flow line was replaced with polyurethane pipe.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 3, Township 22 South, Range 28 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and fifteen feet (115') to one hundred and twenty feet (120') below ground surface (bgs). Gauging data collected from an on-site monitor well indicates the depth to groundwater is approximately one hundred and nine feet (109') bgs. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

NMOCD guidelines indicate the Bass 3 B release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/Kg (ppm)
- Benzene, toluene, ethylbenzene & total xylenes (BTEX) 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) 5,000 mg/Kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis. The NMOCD-approved chloride remediation level for the Bass 3 B site is 1,000 mg/kg. Field-screen results from soil samples collected during the advancement of soil boring SB-3 (discussed in Section 3.1, "Summary of Soil Remediation Activities", below), indicated the soil sample collected at one hundred feet (100') bgs exhibited a chloride concentration of 1,696 mg/kg. Based on the NMOCD ranking system and the occurrence of soil impact at one hundred feet (100') bgs, twenty (20) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the Bass 3 "B" release has a modified ranking score of twenty (20) points. 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)

3.0 DISTRIBUTION OF CONTAMINANTS IN THE UNSATURATED ZONE

3.1 Summary of Soil Remediation Activities

Following initial response activities, on December 19, 2011, delineation of the release site commenced. A series of four (4) delineation trenches (Trench 1 through Trench 4) were advanced at the site to investigate the vertical and horizontal extent of impacted soil. The delineation trenches were each advanced to a total depth of five feet (5') bgs. Soil samples from the delineation trenches were field-screened using a chloride test kit, and four (4) confirmation soil samples (Trench 1 @ 5', Trench 2 @ 5', Trench 3 @ 5', and Trench 4 @ 5') were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of TPH and chloride concentrations in accordance with Environmental Protection Agency (EPA) Methods SW-846 8015M and 4500 Cl-B, respectively. Laboratory analytical results indicated TPH concentrations were less than the laboratory method detection limit (MDL) in all submitted soil samples. Chloride concentrations ranged from less than the laboratory MDL in soil sample Trench 4 @ 5' to 416 mg/kg in soil sample Trench 2 @ 5'. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chlorides in Soil". A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided in Appendix D.

On November 11, 2011, three (3) soil borings (SB-1 through SB-3), were advanced at the site to further delineate the vertical extent of hydrocarbon impact. Soil samples were collected at five-foot (5') drilling intervals and field-screened using a photo-ionization detector (PID) and/or

chloride test kit. Selected soil samples were submitted to the laboratory for analysis of BTEX in accordance with EPA Method SW-846 8021b, TPH, and/or chloride. The locations of the soil borings are depicted in Figure 2. Soil boring logs are provided as Appendix C.

Soil boring SB-1 was located at the northern end of the release site. The soil boring was advanced to a total depth of approximately forty feet (40') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), thirty-five feet (35'), and forty feet (40') were submitted to the laboratory for analysis of TPH and/or chloride concentrations. Soil sample SB-1 @ 10' was also submitted for analysis of BTEX concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory MDL in soil sample SB-1 @ 10' to 230 mg/kg in soil sample SB-1 @ 5'. Chloride concentrations ranged from 32.0 mg/kg in soil sample SB-1 @ 40' to 14,200 mg/kg in soil sample SB-1 @ 5'. BTEX constituent concentrations in soil sample SB-1 @ 10' were less than the appropriate laboratory MDL.

Soil boring SB-2 was located near the release point. The soil boring was advanced to a total depth of approximately eighty feet (80'). Soil samples collected at drilling depths of five feet (5'), ten feet (10'), seventy-five feet (75'), and eighty feet (80') bgs were submitted to the laboratory for analysis of TPH and/or chloride concentrations. Soil sample SB-2 @ 10' was also analyzed for BTEX concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 32.0 mg/kg in soil samples SB-2 @ 75' and SB-2 @ 80' to 12,400 mg/kg in soil sample SB-2 @ 5'. BTEX constituent concentrations in soil sample SB-2 @ 10' were less than the appropriate laboratory MDL.

Soil boring SB-3 was located at the terminus of the flow path of the release. The soil boring was advanced to a total depth of approximately one hundred and ten feet (110'). Soil samples collected at drilling depths of ten feet (10'), fifteen feet (15'), one hundred and five feet (105'), and one hundred and ten feet (110') bgs were submitted to the laboratory for analysis of TPH and/or chloride concentrations. Soil sample SB-3 @ 15' was also analyzed for BTEX concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory MDL in soil sample SB-3 @ 15' to 37.1 mg/kg in soil sample SB-3 @ 10'. Chloride concentrations ranged from 96.0 mg/kg in soil sample SB-3 @ 15' to 6,800 mg/kg in soil sample SB-3 @ 15'. BTEX constituent concentrations in soil sample SB-3 @ 15' were less than the appropriate laboratory MDL.

The soil-to-groundwater pathway in SB-3 was evaluated via analysis of soil sample SB-3 @ 15' in accordance with the Synthetic Precipitation Leaching Procedure (SPLP). Laboratory analytical results indicate the SPLP-leachable chloride concentration in soil sample SB-3 @ 15' was 312 mg/L.

On January 12, 2012, excavation of impacted soil commenced at the site. A chloride test kit was used to field-screen the horizontal extent of impacted soil and to guide the excavation. From January 12 through Excavated soil was stockpiled on-site, pending final disposition. A single soil sample (South Wall @ 5') was collected from the sidewall of the excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentration in soil sample South Wall @ 5' was 64.0 mg/kg.

On January 24, 2012, an additional soil boring (SB-4) was advanced at the site to investigate the potential for groundwater contamination from the Bass 3 "B" release as well as two (2) additional releases approximately three hundred and forty feet (340') to five hundred and twenty-five feet (525') to the east-southeast (cross-gradient) of the site. The soil boring was advanced approximately two hundred and forty feet (240') to the south of soil boring SB-3, in an ephemeral wash which ultimately empties into the Pecos River, approximately four and one-half (4.5) miles southwest of the release site. The soil boring was advanced to a total depth of approximately one hundred and fifty feet (150') bgs. Groundwater was encountered at approximately one hundred and nine feet (109') bgs. Soil samples collected at fifty-five feet (55'), sixty feet (60'), and one hundred feet (100') bgs were submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations were less than the laboratory MDL in all submitted soil samples.

Soil boring SB-4 was fitted with two-inch (2") diameter, screened, PVC casing and converted into a temporary monitor well (TMW-1) to facilitate groundwater monitoring.

On January 25, 2012, eight (8) soil samples (East Wall 50', East Wall 100', East Wall 150', East Wall 200', West Wall 50', West Wall 100', West Wall 150', and West Wall 200') were collected from the sidewalls of at fifty-foot (50') horizontal intervals and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL in all submitted soil samples, with the exception of soil sample West Wall 50', which exhibited a TPH concentration of 219 mg/kg. Chloride concentrations ranged from 16.0 mg/kg in soil sample East Wall 200' to 304 mg/kg in soil sample East Wall 50'.

On January 26, 2012, a single soil sample (North Wall) was collected from the sidewall of the excavation and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated the TPH concentration in soil sample North Wall was 12.7 mg/kg, and the chloride concentration was 80.0 mg/kg.

Based on laboratory analytical results and field-screens, from January 25 through January 30, 2012, the excavation was backfilled in eighteen-inch (18") lifts with locally purchased, non-impacted material. Final dimensions of the excavation were approximately two hundred and ten feet (210') in length, ranging in width from approximately fourteen feet (14') to approximately forty-two feet (42'), and approximately five feet (5') in depth. Prior to backfilling, a twenty (20) mil polyurethane liner was installed in the floor of the excavation. A cushion of non-impacted pad sand was installed approximately one foot (1') both above and below the liner to protect the liner from damage during installation and backfilling activities. Following backfill, the excavation was water-packed and contoured to fit the surrounding topography.

On July 11, 2012, the disturbed area was seeded with a BLM-approved seed mixture.

3.2 Soil Closure Request

Soil samples collected from the sidewalls of the Bass 3 "B" excavation were analyzed by an NMOCD-approved laboratory, and concentrations of BTEX and TPH were below the regulatory remediation action levels established for the site by the NMOCD.

An impermeable, twenty (20) mil polyurethane liner was installed on the floor of the excavation prior to backfilling. This engineered control will inhibit vertical migration of contaminants from below the liner to the surface, protecting the vegetative zone. In addition, the polyurethane liner will shed moisture to the edge of the liner and beyond the maximum horizontal extent of underlying impacted soil, effectively inhibiting vertical migration of contaminants to groundwater.

Basin Environmental recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant soil closure status to the Bass 3 "B" release site.

4.0 SUMMARY OF CONTAMINANTS IN THE SATURATED ZONE

4.1 Summary of Groundwater Monitoring Activities

On December 30, 2011, a groundwater sample (Water Well) was collected from a nearby livestock well in order to determine baseline concentrations of chloride and total dissolved solids (TDS) in the area. Laboratory analytical results indicated the chloride concentration was 336 mg/L, and the TDS concentration was 2,420 mg/L.

On January 24, 2012, following the installation of temporary monitor well TMW-1, the monitor well was purged using a disposable Teflon bailer of approximately nine (9) well volumes of water, per the EPA-recommended protocol for well development.

On January 25, 2012 (and during subsequent quarterly monitoring events), the static water level in the on-site monitor well was gauged, and approximately three (3) well volumes of water were purged using a disposable Teflon bailer. Groundwater was allowed to recharge, and samples were collected using a clean, disposable Teflon bailer. Samples were stored in clean glass and/or plastic containers provided by the laboratory and placed on ice in the field.

Groundwater samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride, BTEX, and/or TDS concentrations in accordance with EPA Methods SM 4500 CL-B, SW846-8021b, and 160.1, respectively. Laboratory analytical results were compared to New Mexico Water Quality Control Commission (NMWQCC) and NMOCD regulatory limits based on the New Mexico groundwater standards found in Section 20.6.2.3103 NMAC. Table 2 summarizes the "Concentrations of Benzene, BTEX, Chloride & TDS in Groundwater". Laboratory analytical reports are provided in Appendix E.

Laboratory analytical results indicated the chloride concentration in TMW-1 was 24.0 mg/L, the TDS concentration was 2,020 mg/L, the benzene concentration was less than the laboratory MDL, and the total BTEX concentration was 0.001 mg/L.

On March 6, 2012, temporary monitor well TMW-1 was converted to a permanent monitor well (MW-1) and fitted with a locking, steel monument and a two-foot by two-foot (2' x 2') concrete pad.

On March 15, 2013, a groundwater monitoring event was conducted to assess the baseline concentrations of volatile organic compounds (VOC's), semi-volatile organic compounds

(SVOC's), inorganic chemicals (anions & cations), Resource Conservation and Recovery Act (RCRA) metals, and NMWQCC metals. Contaminant concentrations are summarized in Table 3 through Table 6.

Quarterly groundwater monitoring events to assess the levels and extent of dissolved-phase constituents in monitor well MW-1 were conducted on March 15, May 21, August 21, and October 11, 2012; and February 6 and April 11, 2013. Laboratory analytical results indicated chloride concentrations ranged from 16.0 mg/L on February 6, 2013, to 24.0 mg/L on March 15, 2012, and April 11, 2013. BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted groundwater samples, with the exception of the groundwater sample collected on October 11, 2012, which exhibited a total xylene concentration of 0.003 mg/L.

Review of laboratory analytical results indicated chloride, BTEX, and TDS concentrations were less than NMWQCC/NMOCD regulatory standards in all submitted groundwater samples from monitor wells TMW-1 and MW-1. In addition, chloride and TDS concentrations were less than baseline concentrations observed in the groundwater sample Water Well collected from the nearby livestock well.

No PSH was detected in the on-site monitor well during any of the quarterly monitoring events.

The location of monitor well MW-1 is depicted in Figure 2, "Site & Sample Location Map". An inferred groundwater gradient map cannot be constructed from the gauging data collected from the monitor well. An inferred groundwater gradient map requires a minimum of three (3) monitor wells to calculate an accurate groundwater gradient direction and magnitude. Review of New Mexico State Engineers Office (NMOSE) records indicate a general south-to-southwest groundwater gradient in this area of Eddy County, New Mexico.

4.2 Groundwater Closure Request

Groundwater samples collected from monitor wells TMW-1 and MW-1 at the Bass 3 "B" release site were analyzed by an NMOCD-approved laboratory, and concentrations of BTEX and chloride were both less than NMWQCC/NMOCD regulatory standards and less than baseline concentrations in the surrounding area. Since no evidence of groundwater contamination exists, BOPCO hereby requests permission to cease groundwater monitoring activities at the Bass 3 "B" release site and to plug and abandon (P&A) the on-site monitor well. Pending NMOCD approval, the monitor well will be P&A'd pursuant to NMOSE and NMOCD regulatory requirements.

5.0 QA/QC PROCEDURES

5.1 Soil Sampling

Soil Samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of BTEX, TPH, and/or chloride concentrations using the methods described below. Soil samples were analyzed for BTEX, TPH and/or chloride concentrations within fourteen (14) days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method SW 846-8021b
- TPH concentrations in accordance with modified EPA Method SW 846-8015M
- Chloride concentrations in accordance with EPA Method 4500 Cl-B

5.2 Groundwater Sampling

Groundwater samples were submitted to Cardinal Laboratories of Hobbs, New Mexico, for analysis of chloride, volatile organic compounds (VOC's), semi-volatile organic compounds (SVOC's), metals, and/or TDS concentrations using the methods described below. All samples were analyzed within approved holding times following the collection date.

The groundwater samples were analyzed as follows:

- Chloride concentrations in accordance with EPA Method SM 4500-CL-B
- BTEX concentrations in accordance with EPA Method SW846-8021b
- Metal concentrations in accordance with EPA Methods SW846 6010B (TCLP metals) and SW7470A (TCLP mercury)
- TDS concentrations in accordance with EPA Method 160.1

5.3 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

5.4 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

6.0 SITE CLOSURE REQUEST

Soil remediation activities at the Bass 3 "B" release site met the objectives set forth by the NMOCD, and there is no evidence of groundwater contamination at the site. Basin recommends BOPCO provide the NMOCD Artesia District Office a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure status to the Bass 3 "B" release site.

7.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Risk-Based Site Closure Request* 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:

Copy 1: Mike Bratcher

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division (District 2)

1301 E. Grand Avenue Artesia, NM 88210

Copy 2: James Amos

Bureau of Land Management

602 E. Greene Street Carlsbad, NM 88220

Copy 3: Tony Savoie

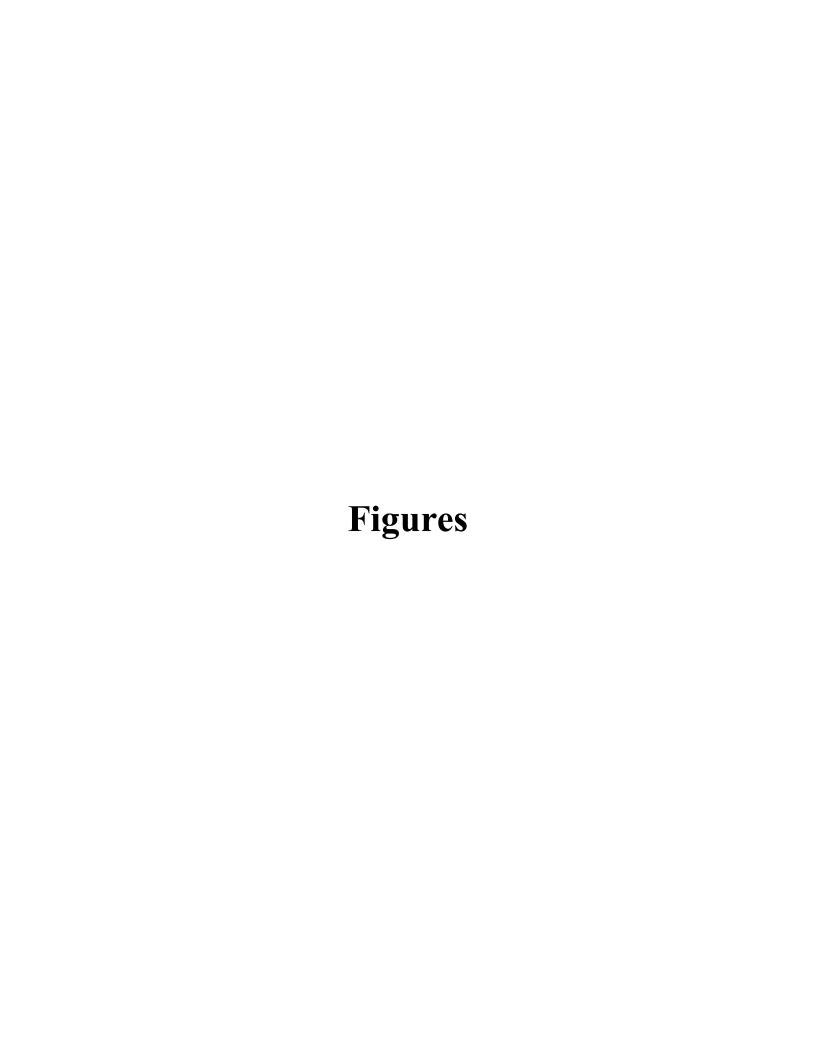
BOPCO, LP

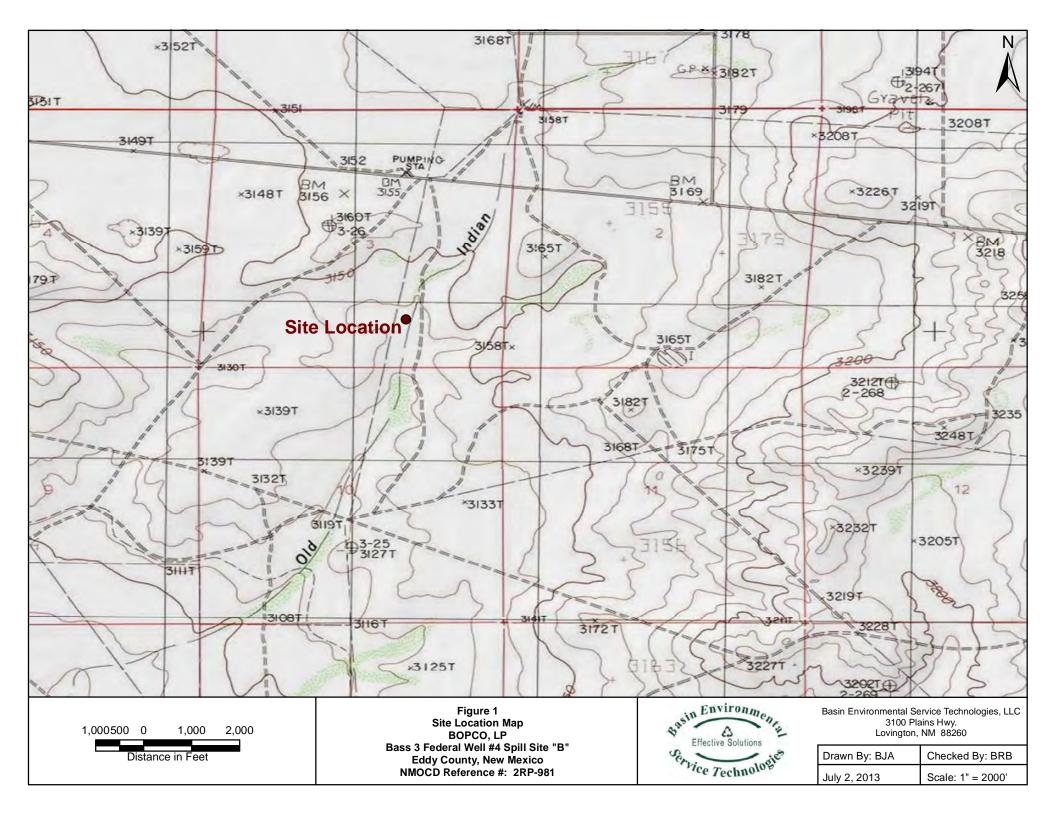
522 W. Mermod, Suite 704 Carlsbad, NM 88220

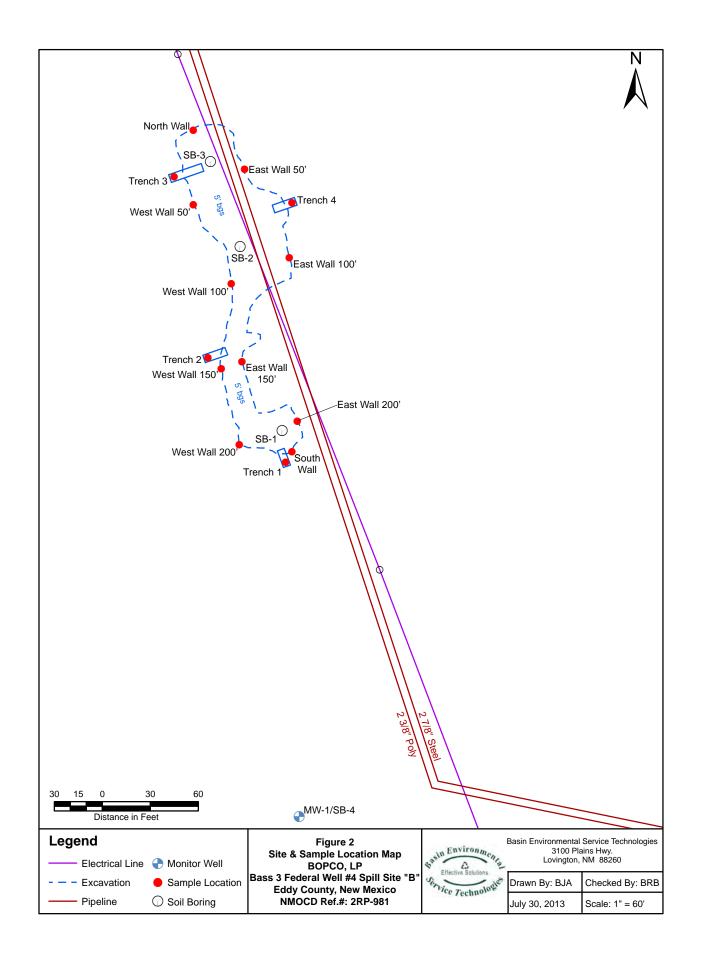
Copy 4: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, NM 88260







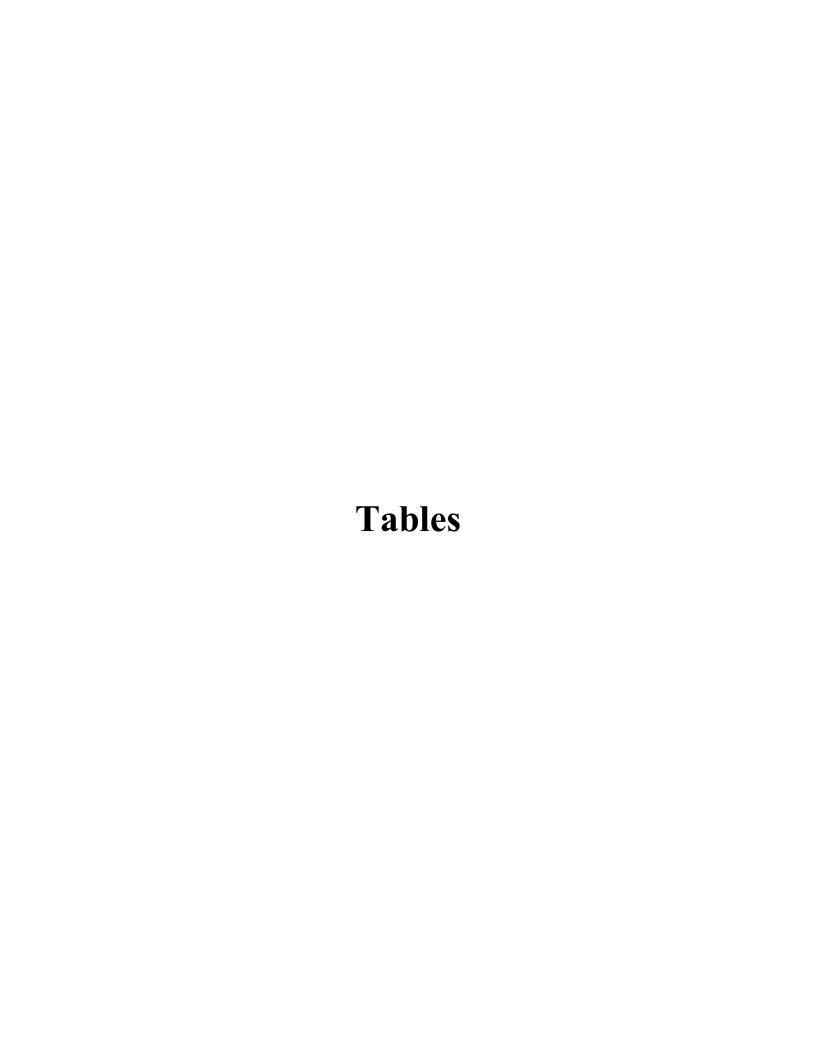


TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP BASS 3 FEDERAL WELL #4 SPILL SITE "B" EDDY COUNTY, NEW MEXICO

					METHOD: E	PA SW 846	-8021B, 503	0	MET	HOD: 80	15M	TOTAL	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6 - C_{12} (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	$\begin{array}{c} \text{TPH} \\ \text{C}_6\text{-C}_{35} \\ \text{(mg/Kg)} \end{array}$	CHLORIDE (mg/Kg)
Trench 1 @ 5'	5'	12/19/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	112
Trench 2 @ 5'	5'	12/19/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	416
Trench 3 @ 5'	5'	12/19/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	160
Trench 4 @ 5'	5'	12/19/2011	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
SB-1 @ 5'	5'	1/11/2012	In-Situ	-	-	-	-	-	<10.0	209	20.9	230	14,200
SB-1 @ 10'	10'	1/11/2012	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.150	<10.0	<10.0	<10.0	<10.0	4,320
SB-1 @ 35'	35'	1/11/2012	In-Situ	-	-	-	-	-	-	-	-	-	272
SB-1 @ 40'	40'	1/11/2012	In-Situ	-	-	-	-	-	-	-	-	-	32.0
SB-2 @ 5'	5'	1/11/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	12,400
SB-2 @ 10'	10'	1/11/2012	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.150	<10.0	<10.0	<10.0	<10.0	7,300
SB-2 @ 75'	75'	1/11/2012	In-Situ	-	-	-	-	-	-	-	-	-	32.0
SB-2 @ 80'	80'	1/11/2012	In-Situ	-	-	-	-	-	-	-	-	-	32.0
SB-3 @ 10'	10'	1/11/2012	In-Situ	-	-	-	-	-	<10.0	37.1	<10.0	37.1	4,900
SB-3 @ 15'	15'	1/11/2012	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.150	<10.0	<10.0	<10.0	<10.0	6,800
SB-3 @ 105'	105'	1/11/2012	In-Situ	-	-	-	-	-	-	-	-	-	96.0
SB-3 @ 110'	110'	1/11/2012	In-Situ	-	-	-	-	-	-	-	-	-	112
South Wall @ 5'	5'	1/12/2012	In-Situ	-	-	-	<u>-</u>	-	-	-	-	-	64.0
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											3.13
SB-4/TMW-1 @ 55'	55'	1/24/2012	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
SB-4/TMW-1 @ 60'	60'	1/24/2012	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
SB-4/TMW-1 @ 100'	100'	1/24/2012	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
East Wall 50'	5'	1/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	304
East Wall 100'	5'	1/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	32.0
East Wall 150'	5'	1/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	32.0
East Wall 200'	5'	1/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	16.0

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP BASS 3 FEDERAL WELL #4 SPILL SITE "B" EDDY COUNTY, NEW MEXICO

	0.4401.5				METHOD: E	PA SW 846	-8021B, 503	0	MET	HOD: 80	15M	TOTAL	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C_{28} - C_{35} (mg/Kg)	TPH C_6 - C_{35} (mg/Kg)	CHLORIDE (mg/Kg)
West Wall 50'	5'	1/25/2012	In-Situ	-	-	-	-	-	17.2	172	29.3	219	240
West Wall 100'	5'	1/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	64.0
West Wall 150'	5'	1/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	176
West Wall 200'	5'	1/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	224
North Wall	5'	1/26/2012	In-Situ	-	-	-	-	-	<10.0	12.7	<10.0	12.7	80.0
NMOCD Criteria				10				50				5,000	1,000

^{- =} Not analyzed.

TABLE 2

CONCENTRATIONS OF BENZENE, BTEX, CHLORIDE & TDS IN GROUNDWATER

BOPCO, LP BASS 3 FEDERAL WELL #4 SPILL SITE "B" EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-981

			METHODS:	EPA SW 8	46-8021B, 50	30		
SAMPLE LOCATION	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	TOTAL XYLENES (mg/L)	TOTAL BTEX (mg/L)	CHLORIDE (mg/L)	TDS (mg/L)
Water Well	12/30/2011	-	-	-	-	-	336	2,420
TMW-1	01/25/2012	<0.001	0.001	<0.001	<0.003	<0.003	24.0	2,020
MW-1	03/15/2012	< 0.001	<0.001	< 0.001	< 0.003	< 0.003	24.0	-
	05/21/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.003	20.0	-
	08/21/2012	< 0.001	<0.001	< 0.001	< 0.003	< 0.003	20.0	-
	10/11/2012	< 0.001	< 0.001	< 0.001	0.003	0.003	20.0	-
	02/06/2013	< 0.001	<0.001	< 0.001	< 0.003	< 0.006	16.0	-
	04/11/2013	<0.001	<0.001	< 0.001	< 0.003	<0.006	24.0	-
NMOCD CRITERIA		0.01	0.75	0.75	0.62		250	10,000

TABLE 3 CONCENTRATIONS OF RCRA & NMWQCC METALS IN GROUNDWATER

BOPCO, LP BASS 3 FEDERAL WELL #4 SPILL SITE "B" EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-981

									EPA 20	0.7, EPA	200.8							
SAMPLE LOCATION	SAMPLE DATE	Aluminum	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc
MW-1	3/15/2012	0.749	0.006	0.0342	<0.20	<0.0001	0.003	0.0011	0.0012	0.302	<0.0005	0.0118	<0.0002	0.0046	0.0206	0.004	<0.0001	0.007
Maximum Conta from NMWQCC standards Section and 3-103.A.	Drinking water	5.0 mg/L	0.1 mg/L	1.0 mg/L	J/Sm 9/.T	0.01 mg/L	0.05 mg/L	0.05 mg/L	1.0 mg/L	1.0 mg/L	0.05 mg/L	0.2 mg/L	0.002 mg/L	1.0 mg/L	0.2 mg/L	0.05 mg/L	0.05 mg/L	10 mg/L

CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

BOPCO, LP BASS 3 FEDERAL WELL #4 SPILL SITE "B" EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-981

Date Sampled	Sample Location	Acetone	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone	MTBE	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	2-Chloroethyl vinyl ether
3/15/2012	MW-1	< 0.005	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Maximum Contam NMWQCC Drinking Sections 1-101.	g water standards			0.01 mg/L												0.01 mg/L			

CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

BOPCO, LP BASS 3 FEDERAL WELL #4 SPILL SITE "B" EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-981

Date Sampled	Sample Location	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene(p- Isopropyltoluene)	Dibromochloromethane	1,2-Dibromo-3- chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane (methylene bromide)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluormethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene
3/15/2012	MW-1	< 0.001	<0.001	<0.001	<0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001
Maximum Contam NMWQCC Drinkin Sections 1-101.	g water standards	0.1mg/L							0.0001 mg/L						0.005 mg/L	0.01 mg/L	0.005 mg/L	0.1mg/L	

CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

BOPCO, LP BASS 3 FEDERAL WELL #4 SPILL SITE "B" EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-981

Date Sampled	Sample Location	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	Methylene chloride	4-Methyl-2-pentanone (MIBK)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)
3/15/2012	MW-1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Maximum Contam NMWQCC Drinkin Sections 1-101.								0.75 mg/L				0.1mg/L		0.03 mg/L				0.02 mg/L	

CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

BOPCO, LP BASS 3 FEDERAL WELL #4 SPILL SITE "B" EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-981

Date Sampled	Sample Location	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	o-Xylene	m,p-Xylene	Vinyl Chloride
3/15/2012	MW-1	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.002	<0.001
Maximum Contam NMWQCC Drinkin Sections 1-101.		0.75 mg/L			0.06 mg/L		0.01 mg/ L					Total Xylene	0.62 mg/L	0.001 mg/L

TABLE 5

CONCENTRATIONS OF SEMI-VOLATILE COMPOUNDS IN GROUNDWATER

BOPCO, LP BASS 3 FEDERAL WELL #4 SPILL SITE "B" EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-981

								EPA	SW846-8	270C, 35	10						
SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
MW-1	3/15/2012	< 0.001	<0.001	<0.001	<0.001	< 0.0002	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	0.001	< 0.001

TABLE 6 CONCENTRATIONS OF ANIONS & CATIONS IN GROUNDWATER

BOPCO, LP BASS 3 FEDERAL WELL #4 SPILL SITE "B" EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-981

SAMPLE	SAMPLE				EPA SW:	375.4, 325	,3, 310, 160.1	SW846	6010B			
DATE	LOCATION	Bicarbonate	Calcium	Carbonate	Chloride	Flouride	Magnesium	Nitrate	Phosphate	Potassium	Sodium	Sulfate
3/15/2012	MW-1	83.0	445	<0.00	24.0	4.48	29.8	2.35	0.10	2.95	9.30	1,170
_			-	•	250 mg/L	1.6 mg/L	•	1/6 m 01			-	600 mg/L



Appendix C Release Notification & Corrective Action (Form C-141)

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 Form C-141 Revised October 10, 2003 abmit 2 Copies to appropriate

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

2RP-981

30-015- 28736 Release Notification and Corrective Action													
nMLB/135			OPERA	🛛 Initi	al Report		Final R	leport					
Name of Co				260737		Contact Tony Savoie							
				ad, N.M. 88220		Telephone No. 432-556-8730 Facility Type E&P							
Facility Nai	ne Bass 3	Federal We	н#4 Spi	II SILE B	гасину гур	e E&P							
Surface Ow	ner Federa	Federal Lease No.											
LOCATION OF RELEASE													
Unit Letter O	Section 3	Township 22S	Range 28E	Feet from the	North/	South Line	Feet from the	East/	West Line	County Eddy			
Latitude_N 32.417420 Longitude W 104.072281_													
Type of Release: Produced water and crude oil NATURE OF RELEASE Volume of Release: 45 Bbls of Volume Recovered: none													
Type of Rele	ase: Produc	Volume of Release: 45 Bbls of Produced water and 5 Bbls of Crude oil				Recovered: none							
Source of Re		Unknown			i	Date and Hour of Discovery 12/13/11 11:46 a.m.							
Was Immedi	ate Notice (If YES, To Whom? Mike Bratcher NMOCD and Jim Amos BLM											
By Whom? T		Date and Hour 12/13/11 12:12 p.m.											
Was a Watercourse Reached? ☐ Yes ☒ No						If YES, Volume Impacting the Watercourse.							
						ECE							
If a Watercou	ırse was Im	pacted, Descr	ibe Fully,	•						DEC 15			
D : 1 . C	CD 11	NMOCD ARTESIA											
	Describe Cause of Problem and Remedial Action Taken.* The flow line delivering produced fluid from the well to the tank battery developed a leak, the well was shut in and a temporary repair clamp was placed on the affected area. The well will remain shut in until the entire flow line can be replaced with poly pipe.												
soaked into t	Describe Area Affected and Cleanup Action Taken.*The released fluid affected an area of approximately 5000 sq. ft of pasture land. All of the fluid had soaked into the ground. An air rotary rig has been scheduled for 12/19/11 to determine the vertical and horizontal extent of the release sites. The Site remediation for the produced water and crude oil spill will follow the NMOCD guidelines for leaks and spills.									ad			
I hereby cert regulations a	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 or the enviro	operations h nment. In a	nave failed to a	adequately OCD accer	investigate and rotance of a C-141	emediate	contaminati	on that pose a thr	eat to	ground wate	r, surface wa	ter, hur	nan heal	
Todorui, State	, or rocar la	tib dila of regi	aidirons.		T		OIL CON	SER	VATION	DIVISIO	N		
Signatura	1 0												
Signature: Printed Name	e: Tony Sav		Approved by District Supervisor: Signed By Mily Brance										
Title: Waste	Mgmt.& Re	1	Approval Date:DEC 2 0 2011 Expiration Date:										
E-mail Address: TASavoie@BassPet.com						Conditions of Approval:				Attached			
Date: 12/15/11 Phone:432-556-8730						Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION				Attached			
* Attach Addi	tional She	ets If Necess	arv		Guidelines. Subiviti THAN:								

Appendix D Photographs



Bass 3 Federal Well #4 Spill Site "B" - Release Site



Bass 3 Federal Well #4 Spill Site "B" - Release Site



Bass 3 Federal Well #4 Spill Site "B" - Delineation Trench



Bass 3 Federal Well #4 Spill Site "B" - Advancement of Soil Boring SB-2



Bass 3 Federal Well #4 Spill Site "B" - Excavation



Bass 3 Federal Well #4 Spill Site "B" - Excavation



Bass 3 Federal Well #4 Spill Site "B" - Excavation



Bass 3 Federal Well #4 Spill Site "B" - Liner Installation



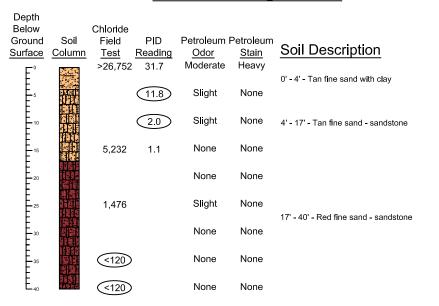
Bass 3 Federal Well #4 Spill Site "B" - Liner Installation



Bass 3 Federal Well #4 Spill Site "B" - Monitor Well MW-1

Appendix E Soil Boring & Monitor Well Logs

Soil Boring SB-1



Boring SB-1

January 11, 2012 Date Drilled_ Thickness of Bentonite Seal 40 Ft Depth of Exploratory Boring _____40 Ft bgs Depth to Groundwater _ Ground Water Elevation

Indicates the PSH level measured

Indicates the groundwater level

Completion Notes

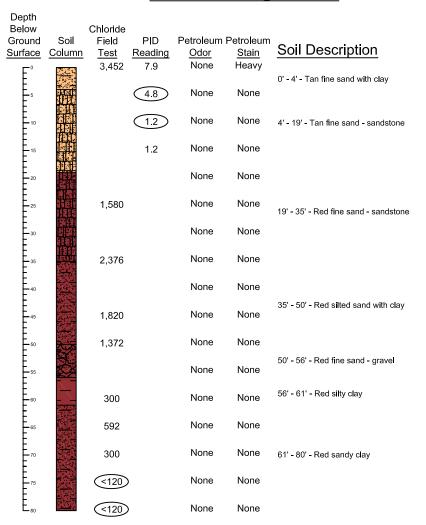
- The soil boring was advanced on date using air rotary drilling techniques.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.



Basin Environmental Service Technologies, LLC 3100 Plains Hwy.

Edvington, run 66266					
Prep By: BJA	Checked By: BRB				
July 2, 2013					

Soil Boring SB-2



Boring SB-2

Date Drilled	January 11, 2012
Thickness of Bentonite Se	eal80 Ft
Depth of Exploratory Bori	ng 80 Ft bgs
Depth to Groundwater	
Ground Water Elevation_	

Indicates the PSH level measured

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

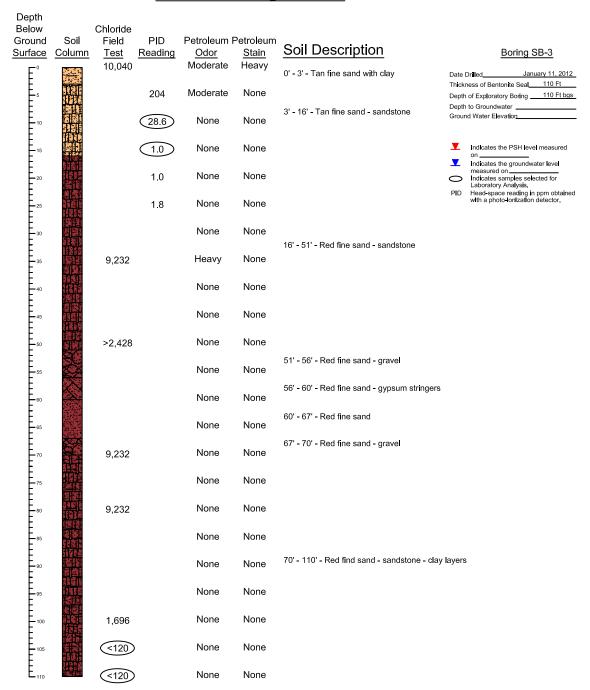
Completion Notes

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



Basin Environmental Service Technologies, LLC 3100 Plains Hwy. Lovington, NM 88260

Soil Boring SB-3



Completion Notes

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

Basin Environmental 3100 i Lovingto

Free Technologie

Basin Environmental 3100 i Lovingto

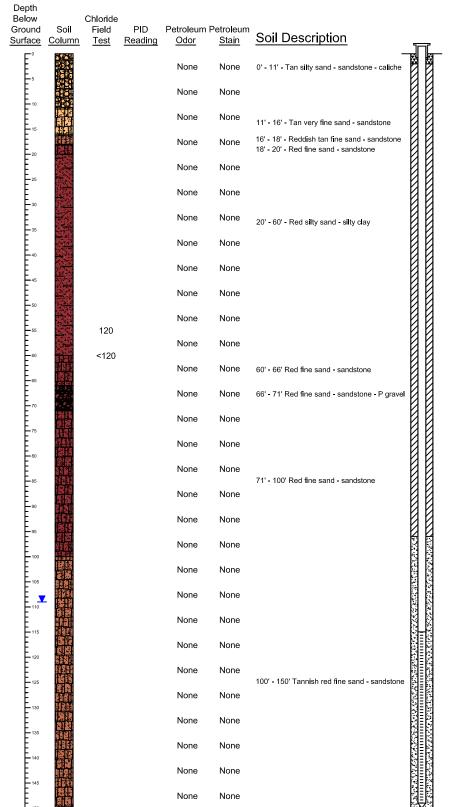
Prep By: BJA

July 2, 2013

Basin Environmental Service Technologies, LLC 3100 Plains Hwy. Lovington, NM 88260

Lovington, run cozec								
Prep By: BJA	Checked By: BRB							
July 2, 2013								

Soil Boring SB-4/Monitor Well MW-1



January 23, 2012 Date Drilled_ Thickness of Bentonite Seal 94 Ft Depth of Exploratory Boring _ 150 Ft bgs Depth to Groundwater 109 Ft bgs Ground Water Elevation

Indicates the PSH level measured





Grout Surface Seal



Bentonite Pellet Seal



Sand Pack



Completion Notes

- The monitor well was advanced on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.10 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.
- 5.) The depths indicated are referenced from

Soil Boring SB-4/ **Monitor Well MW-1**

BOPCO, LP Bass 3 Federal Well #4 Spill Site "B" **Eddy County, New Mexico** NMOCD Reference #2RP-981



Basin Environmental Service Technologies, LLC 3100 Plains Hwy. Lovington, NM 88260

Prep By: BJA	Checked By: BRB
July 2, 2013	

Appendix D Laboratory Analytical Reports (Soil)



December 22, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 12/20/11 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 12/20/2011 Sampling Date: 12/19/2011

Reported: 12/22/2011 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: TRENCH 1 @ 5' (H102740-01)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/21/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/21/2011	ND	216	108	200	1.74	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	197	98.7	200	12.2	
EXT DRO >C28-C35	<10.0	10.0	12/21/2011	ND					
Surrogate: 1-Chlorooctane	84.0	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	85.4	% 57.6-15	8						

Sample ID: TRENCH 2 @ 5' (H102740-02)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	12/21/2011	ND	448	112	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2011	ND	216	108	200	1.74	
DRO >C10-C28	<10.0	10.0	12/22/2011	ND	197	98.7	200	12.2	
EXT DRO >C28-C35	<10.0	10.0	12/22/2011	ND					
Surrogate: 1-Chlorooctane	94.2	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	86.3	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 12/20/2011 Sampling Date: 12/19/2011

Reported: 12/22/2011 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: TRENCH 3 @ 5' (H102740-03)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/21/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2011	ND	216	108	200	1.74	
DRO >C10-C28	<10.0	10.0	12/22/2011	ND	197	98.7	200	12.2	
EXT DRO >C28-C35	<10.0	10.0	12/22/2011	ND					
Surrogate: 1-Chlorooctane	87.4	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	97.9	% 57.6-15	8						

Sample ID: TRENCH 4 @ 5' (H102740-04)

Chloride, SM4500CI-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/21/2011	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2011	ND	216	108	200	1.74	
DRO >C10-C28	<10.0	10.0	12/22/2011	ND	197	98.7	200	12.2	
EXT DRO >C28-C35	<10.0	10.0	12/22/2011	ND					
Surrogate: 1-Chlorooctane	95.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	101	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or

greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance

limits.

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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name	Basin Environmental Service	Techno	logies, LLC	BILL TO						ANA	YSIS	REQU	EST	
Project Manager	Ben J. Arguijo			P.O. #:									T	T
Address: P.O.				Company: BOI	CO, LP									
City: Lovingto	on State: NM	Zip: 8	8260	Attn: Tony S	avoie									1
Phone #: (575)		96-142	9	Address: 522 W. Mermod										
Project #:	Project Owne	r: BOPC	O,LP	City: Carlsbac	đ				-					
Project Name:	Bass 3 Federal Well #4 Spill	Site "	В"	State: NM Zi	p: 8822	0		İ	l			İ		
Project Location	n: Eddy Co., NM		Amount 120 beautiful and the contract of the c	Phone #: (432)	556-87	30	1.		11					
Sampler Name:	Bobby Blackwood		MATRIX	Fax #:	SAMPLI		11		200					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	TER ER	HER: ID/BASE: 5/COOL HER:	DATE	TIME	(USIOL) HOL	Chlorides	141d Por					
2 3 4	Trench Q5' Trench 2 Q5' Trench 3 Q 5' Trench 4 Q 5'	X /		1.	*/19/n	0945 1030 1115 1200	X	X J						

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By:	Date: / /	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Lyka & Believer	10/30/11 Time: 0700	1/1/1/1	Fax Result:
Relinquished By:	Date:	Received By:	fun The Hold for BIEK. Please email results to pm@basinenv.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other	Mende	Sample Condition CHECKED BY: Cool Intact (Initials) Yes 1 Yes No No	& & TAsavoie@BassPet.com



January 19, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 01/16/12 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2012 Sampling Date: 01/11/2012

Reported: 01/19/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SB-1 @ 5' (H200085-01)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	01/16/2012	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2012	ND	219	109	200	6.11	
DRO >C10-C28	209	10.0	01/16/2012	ND	203	101	200	10.3	
EXT DRO >C28-C35	20.9	10.0	01/16/2012	ND					
Surrogate: 1-Chlorooctane	124 %	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	152 %	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2012 Sampling Date: 01/11/2012

Reported: 01/19/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

ma/ka

Sample ID: SB-1 @ 10' (H200085-02)

RTFY 8021R

BIEX 8021B	mg/	кд	Anaiyze	a By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2012	ND	1.93	96.5	2.00	3.48	
Toluene*	<0.050	0.050	01/17/2012	ND	2.05	102	2.00	2.56	
Ethylbenzene*	<0.050	0.050	01/17/2012	ND	2.05	103	2.00	2.92	
Total Xylenes*	<0.150	0.150	01/17/2012	ND	6.38	106	6.00	2.08	
Surrogate: 4-Bromofluorobenzene (PIL	103	% 64.4-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	01/16/2012	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2012	ND	219	109	200	6.11	
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3	
EXT DRO >C28-C35	<10.0	10.0	01/16/2012	ND					
Surrogate: 1-Chlorooctane	130	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	150	% 57.6-15	8						

Applyzod Ry: AD

Sample ID: SB-1 @ 35' (H200085-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/16/2012	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Basin Environmental Service

BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2012 Sampling Date: 01/11/2012

Reported: 01/19/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SB-1 @ 40' (H200085-04)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/16/2012	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 the 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.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

	DOBIN LIVITORMORE	AT OCTATOR TO	CITITIO	2706	9100, 1	TIC.			<u> </u>												
Project Manager	Ben J. Arguijo						P.C	D. #:													
Address: P.O.							Co	mpany: B	OPCO, LI)											
City: Lovingto	on	State: NM Z	Zip:	882	60		Att	n: Tony	Savoie											ı	
Phone #: (575)	396-2378 1	=ax #: (575)396	5-142	29			Address: 522 W. Mermod														
Project#:		Project Owner:	ворс	CO, I	LP		City: Carlsbad														
Project Name:	Bass 3 Federal W	1011 #4 Sp	://5	site	"B"		Sta	ate: NM	Zip: 8822	0		_									
	: Eddy Co., NM	•					Ph	one #: (43	2)556-87	30		81									
Sampler Name:	Ben J. Aguij	0					Fax	x #:	The state of the s			30/S									
Lab I.D. H2020555	Sample I.D. 58-/ @ 5' 58-/ @ 10' 58-/ @ 35' 58-/ @ 40').	(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	RIX		ACID/BASE: ASIGN CE / COOL COOL COOL COOL COOL COOL COOL CO	DATE ////a	TIME 230 235 300 325	Charde	(00) #101 xx	X								
	nd Damages. Cardinal's liability and client's											<u> </u>					<u></u>	<u> </u>			
service. In no event shall C	ng those for negligence and any other cau ardinal be liable for incidental or conseque	ental damages, including w	sthout lim	nitat on	n, business inte	eruptions,	loss of	f use, or loss of pri	ofits incurred by	client, its subsidia	aries,	ble									
Relinquished By	ng out of or related to the performance of s	Date: / /	The real Property lies	فنانسب	ss of whethers d By:	such claim	is base	ed upon any of the	above stated re	Phone Re	suit:	□Ye		No	Add'l		#:				
13/1/20		/// 5 //2 Time: 84 5	///	7	1		M	6 W.A.00	4Å	Fax Resu REMARK		□ Ye	s 🗆	No	Add'l	Fax#:					
Refinduished By			Rece	ive	d By:		1	CIUUD	1												
		Time:		m=0150.05%)																	
		raile.						277-2			Pleas	se ema	ail r	esult	s to	pm@b	asine	nv.co	om		
	: (Circle One)		_		Sample Cool	Intact		CHECK			& & T	Asavo	oie@B	assPe	et.com	1					
Sampler - UPS	- Bus - Other:		10	7 ! 2 !	Yes	Ye	s	(Init		1											

BILL TO



January 19, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 01/16/12 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2012 Sampling Date: 01/11/2012

Reported: 01/19/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SB-2 @ 5' (H200086-01)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	01/16/2012	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2012	ND	219	109	200	6.11	
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3	
EXT DRO >C28-C35	<10.0	10.0	01/16/2012	ND					
Surrogate: 1-Chlorooctane	99.8	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	112	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 01/16/2012 Sampling Date: 01/11/2012

Reported: 01/19/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SB-2 @ 10' (H200086-02)

BTEX 8021B	mg,	g/kg Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2012	ND	1.93	96.5	2.00	3.48	
Toluene*	<0.050	0.050	01/17/2012	ND	2.05	102	2.00	2.56	
Ethylbenzene*	<0.050	0.050	01/17/2012	ND	2.05	103	2.00	2.92	
Total Xylenes*	<0.150	0.150	01/17/2012	ND	6.38	106	6.00	2.08	
Surrogate: 4-Bromofluorobenzene (PIL	107	% 64.4-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7300	16.0	01/16/2012	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2012	ND	219	109	200	6.11	
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3	
EXT DRO >C28-C35	<10.0	10.0	01/16/2012	ND					
Surrogate: 1-Chlorooctane	111	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	127	% 57.6-15	8						

Sample ID: SB-2 @ 75' (H200086-03)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/16/2012	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2012 Sampling Date: 01/11/2012

Reported: 01/19/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SB-2 @ 80' (H200086-04)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/16/2012	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 the 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.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Basin Environmental Service	Technologies, LLC	BILL TO	ANALYSIS REQUEST
Project Manager	Ben J. Arguijo	T. p	P.O. #:	
Address: P.O.			Company: BOPCO, LP	
City: Lovingto	on State: NM	Zip: 88260	Attn: Tony Savoie	
Phone #: (575)	396-2378 Fax #: (575)3	96-1429	Address: 522 W. Mermod	
Project#:	Project Owne	r: BOPCO, LP	City: Carlsbad	
Project Name:	Bass 3 Federal Well #4 Spi	11 Site "B"	State: NM Zip: 88220	
	: Eddy Co., NM		Phone #: (432)556-8730	
Sampler Name:	Ben J. Arquijo		Fax #:	
FOR LAB USE ONLY	1 2	MATRIX	PRESERV. SAMPLING	
Lab I.D. 귀2000명	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: OTHER: OTHER: OTHER: BMIT	CALORIA CALORI
1	5B-2@5'	GI X	K 1/11/12 1400	XX
2	SB-2 Q10'		1405	/ X X
3	5B-2@75'	1	1540	
4	58-2 @ 80'	VV	1 1 1600	
PLEASE NOTE: Liability an	d Damages. Cardinal's liability and client's exclusive remedy for	any claim arising whether based in contra	act or tort, shall be limited to the amount paid by the client for	I the

anniates of successors ansing out of or related to the periormance of	is services refedition by Co	aldinal, regardless of whether such dalir	i is based upon any or the above stated re	asons of otherwise.				The second secon
Relinquished By:	Date:	Received By:	1	Phone Result:	☐ Yes	□ No	Add'l Phone #:	
1000	1/10/12	An I . I	M	Fax Result:	☐ Yes	□ No	Add'l Fax #:	
12/2/2	Time:	(11)/11 A	ONDOW	REMARKS:				
1//1/	COL	COUNTY OF						
Relinquistred By:	Date:	Réceived By:						
	Time:			Dloo	a omail	mogul t	s to pm@basinenv.com	
Delivered By: (Circle One)		Sample Condi	tion CHECKED BY:	Freas	se emali	. resurt	.s to phebasinenv.com	
Delivered by. (Officie Offe)		Cool Intact	and the same of the same		[Asavoie	@BassPe	et.com	
Sampler - UPS - Bus - Other:		/ Pres Tre	N. S. M.					
campio, of o Bao canon.		O No I N						



January 19, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 01/16/12 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

(575) 396-1429

Received: 01/16/2012 Sampling Date: 01/12/2012

Reported: 01/19/2012 Sampling Type: Soil

Fax To:

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SB-3 @ 10' (H200087-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4900	16.0	01/16/2012	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2012	ND	219	109	200	6.11	
DRO >C10-C28	37.1	10.0	01/16/2012	ND	203	101	200	10.3	
EXT DRO >C28-C35	<10.0	10.0	01/16/2012	ND					
Surrogate: 1-Chlorooctane	135	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	155	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2012 Sampling Date: 01/12/2012

Reported: 01/19/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SB-3 @ 15' (H200087-02)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2012	ND	1.93	96.5	2.00	3.48	
Toluene*	<0.050	0.050	01/17/2012	ND	2.05	102	2.00	2.56	
Ethylbenzene*	<0.050	0.050	01/17/2012	ND	2.05	103	2.00	2.92	
Total Xylenes*	<0.150	0.150	01/17/2012	ND	6.38	106	6.00	2.08	
Surrogate: 4-Bromofluorobenzene (PIL	106	% 64.4-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	01/16/2012	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2012	ND	219	109	200	6.11	
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3	
EXT DRO >C28-C35	<10.0	10.0	01/16/2012	ND					
Surrogate: 1-Chlorooctane	143	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	160	% 57.6-15	8						

Sample ID: SB-3 @ 105' (H200087-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/16/2012	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2012 Sampling Date: 01/12/2012

Reported: 01/19/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SB-3 @ 110' (H200087-04)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/16/2012	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by 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

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 whistoever 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 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.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC								BILL TO ANALYSIS REQUEST																			
Project Manager	n: Ben J. Arguijo								P.O	. #:				T													
Address: P.O.									Cor	npa	ny:	BOPCO, L	Р														
City: Lovingto	on	State: NM	Zip	: 8	3260				Attı	n:	Tony	/ Savoie	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				ë										
Phone #: (575)396-2378							Add	dres	s: 5:	22 W. Mei	mod		1				Ì										
Project #:		Project Owner	: BC	PCC	,LP				City	/: C	arls	bad															
Project Name:	Biss 3 Federal	Well #4 50	1//	Sin	le '	B"	1		Sta	te: 1	IΜ	Zip: 882	2 0		1	erene.			Ì		l				İ		
	: Eddy Co., NM	. ,	1100						Pho	one :	#: (4	32)556-8	730		Ì	E.											
Sampler Name:	Ben J. Avgu	ijo							Fax	#:					Į	6			1								
FOR LAB USE ONLY	7 .					MA	TRI	X	\perp	PRE	SERV	. SAMPL	ING	7		(S)				ı							
Lab I.D. 심2000%]	Sample I	.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME		Chlorides	1946	1318	DI 7 0.									
)	58-3€	2 10'	G	1		X		İ			K	1/12/12	0905		X	K											
2	313-3 €	15'	Ц			- Day					The same of the sa		0910		Ш	X	K										
3	58-30	105'				\perp	_			_			1330		\bot				\perp	_							
<u>-</u>	5 18-3 €	110	V	V		V	-	+	_	-	V	W	1345	1	V					-					<u> </u>		
			ļ	\vdash		_	-		\dashv		-	ļ		+				-	+	+							
			-	-		_	-	+			+		ļ	╀	-			-	-	+			-				
			\vdash	╁			-	!	-1		-	<u> </u>		╁				+		+						-	
						1	+			-				╁				1		+							
				t			\vdash	\dagger			ī	1	 	\dagger				+	+	+					 	<u> </u>	
analyses. All claims include service. In no event shall C	d Damages. Cardinal's liability and c ng those for negligence and any other ardinal be liable for incidental or cons ng out of or related to the performance	cause whatsoever shall be dequental damages, including	deeme withou	d waivi ut limita	ed unle	ss made usiness ir	in writ rterru;	ing and ptions. I	receiv	red by use, or	Cardinal loss of	within 30 days af profits incurred by	ter completion o client, its subsi	f the a diaries	app'icab	le						***			<u> </u>		
Relinquished By	y:	Date: //6//2	Re	cei	ved	Ву:		J.	1		4		Phone R Fax Res		ilt:	☐ Ye		No No		i'l Ph i'l Fa	one #	‡ :	-				
The state of the s	•	Time:	1	1/	11	li	(Le	1/	1	_ الل	REMAR						15.545					.,,			
Refinquished By	y:	Date:	R	cei	ved	Ву:							1														
		Time:																									
Delivered Rv	: (Circle One)				0	Sample	e Co	nditi	on	(HEC	KED BY:	-						lts t		m@ba	sine	nv.c	mc			
	- Bus - Other:		1	9	. (Cool	Int	act,		,		itials)	With the Colonial of the Colon	&	& T.	Asav	oie@	Bass.	Pet.c	mo							ē.



February 02, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 01/16/12 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2012 Sampling Date: 01/12/2012

Reported: 02/02/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SB-3 @ 15' (H200087-02)

SPLP Chloride	mg,	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	312	4.00	02/02/2012	ND	107	107	100	4.57	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Please email results to pm@basinenv.com

& & TAsavoie@BassPet.com

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

Company Name	Basin Environment	al Service To	ech	nol	ogie	s,	LLC	-		-	Ē	IL	L 70			****			1	ANAI	YSIS	RE	QUE	ST				
Project Manage	Pr. Ben J. Arguijo								P.C). #:						Τ										T		
Address: P.O									Co	mpa	iny:	В	OPCO, LI	?	1			ļ										ļ
City: Lovingt	on	State: NM	Zip:	88	260				Attn: Tony Savoie																		İ	
Phone #: (575)396-2378	Fax #: (575) 39	6-1	429					Ad	dres	ss:	522	W. Mer	mod	1													1
Project #:		Project Owner:	во	PCO	, LP				Cit	y: ([ar]	lsb	ad				1			L					1	1	- 1	- 1
Project Name:	Biss 3 Feleral 1	Jell #4 501	://	Sit	e"	B"	,		Sta	te:	NM	7	Zip: 8822	20]	_				\x\ \			1	İ	1	-	1	1
	n: Eddy Co., NM					×			Ph	one	#: (432	2)556-8	730	1	8	1			(-	I	
Sampler Name:	Ben J. Argui	עי							Fa	x #:						13				-						-	-	
FOR LAB USE ONLY	7 -					MA	TRIX	(PRE	SEF	₹V.	SAMPL	ING]	8	cho			(C)								
Lab I.D.	Sample I.I	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWALER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	14/00/10	1 1102	7 1/1	BTEK		SOLP								
1	58-3€	10'	Ğ	7		X	Ť	-	Ŭ		X	Ť	1/12/12	0905	T _x	X										\top		
2	5B-3 P	15'											7]	0910		X		K		V								
3	58-30	05'												1330														
<u></u>	5B-3@ 1	10'	V	\mathbf{V}		V	<u> </u>				V	_	V	1345	L	1_	\perp				ļ	<u> </u>						
					_	4	<u> </u>	<u> </u>			_	4			<u> </u>	4_	\dashv			<u> </u>	ļ	<u> </u>	 			_ _		
				Ш			-	├-			-	4		<u> </u>	1	1	4						-	4-	-	-		
			_	Н	-	-	\vdash	-	-		-	4			╀	-	-									+		
				-	-	-	-	-	-	\vdash	-	-			╂	╀	\dashv			-	 	 	┼	+-	\dashv	+		
			-	Н		-	┼	-	-		-	+			╂─	╁	\dashv			├	├	-	+	+	+	+		
analyses, All claims includ service, in no event shall C	Ind Damages. Cardinal's liability and cilen ing those for negligence and any other ca Cardinal be liable for incidental or consequing out of or related to the performance o	use whatsoever shall be de rental damages, including v	eemed vithou	l walve t Ilmita	d unless tion, bus	s made siness Ir	in writi nterrup	ng and tions,	d rece loss o	ived by fuse, o	/ Cardi or loss	nal wi of pro	ithin 30 days aft ofits incurred by	er completion of client, its subsid	the appl aries,	icable				<u> </u>	<u></u>	in market						
Relinquished B	у:	Date: 08/5	Re	celv	ed E	y:			1	ea upo				Phone Ro Fax Rest REMARK	esult: It:		Yes Yes		No No		Phone Fax#:	#:						

CHECKED BY:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact
Ves 2 Yes
No No



January 17, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 01/16/12 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2012 Sampling Date: 01/12/2012

Reported: 01/17/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SOUTH WALL @ 5' (H200083-01)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/16/2012	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Basin Environmental Service	Techno	logie	s, L	LC		***************************************	BI	LL TO			delinery was allowed	A	NAL	YSIS	RE	QUE	ST			
Project Manager	Ben J. Arguijo					P.O	.#:								A CONTRACTOR OF THE			2000			
Address: P.O.						Cor	npai	ny: E	BOPCO, LE)											
City: Lovingto	on State: NM	Zip: 8	8260			Attn: Tony Savoie														İ	
Phone #: (575)	396-2378 Fax #: (575)3	96-142	9			Add	ires	5 : 52	2 W. Mer	mod			1								
Project #:	Project Owne	r: BOPC	O,LP			City	/: Ca	arls	oad												
Project Name:	Bass 3 Federal Well #4.	50:115	ife "	13"		Sta	te: N	M	Zip: 8822	0										l	
	: Eddy Co., NM	*				Pho	ne #	‡: (43	12)556-87	30											
Sampler Name:	Shannon Brown	- William Company	***************************************	estration de la constitución de la constitución de la constitución de la constitución de la constitución de la		Fax	-					*									
FOR LAB USE ONLY		٠.		MAT	RIX		PRES	SERV.	SAMPLI	NG									l		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	OTHER:		TIME	Chloride										
	South Wall @ 5'	61		X			7	(1/12/12	1800	X										
analyses. All claims includir service. In no event shall Co	ad Damages. Cardina's liability and client's exclusive remedy for ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, includin ng out of or related to the performance of services hereunder by the man of the control of	deemed waiv g without limit	ved unless tation, bus	made in iness inte	writing an	d receiv	ed by 0 use, or	Cardinal v loss of p	within 30 days after rofits incurred by	er completion of t	the applical aries,	ble			www.escope.com						

Relinquished By:	Date:	Received By:	Constitution of the second states	Phone Result:	☐ Yes	□ No	Add'l Phone #:
1 5h B	1/12/12	1015		Fax Result:	☐ Yes	□ No	Add'l Fax #:
Shammon Brown	Time: 1400			REMARKS:			
Relinquished By:	Date:	Réceived By:					
11.11	Time: 0915	apoli Alenso	V.	Pleas	se emai:	l result	ts to pm@basinenv.com
Delivered By: (Circle One)		Sample Condition CHEC	KED BY:	ь TA	savoie®	BassPet	COM
Sampler - UPS - Bus - Other:		Cool Intact (If	hitials)	G. 1733	54,0106		



January 30, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 01/27/12 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/27/2012 Sampling Date: 01/24/2012

Reported: 01/30/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SB-4 / TMW-1 @ 55' (H200211-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/30/2012	ND	384	96.0	400	8.00	

Sample ID: SB-4 / TMW-1 @ 60' (H200211-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/30/2012	ND	384	96.0	400	8.00	

Sample ID: SB-4 / TMW-1 @ 100' (H200211-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/30/2012	ND	384	96.0	400	8.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Basin Environmental Service	Tech	nol	ogie	es,	LLC			and the same of	L	9//	4 70					ACCUMPANTS		ANA	LYSI	S RE	QUE	ST		CALCULATION OF THE PARTY OF	
Project Manager	r: Ben J. Arguijo							P.C	O. #:		in the same				T		-			T		The second				- AND THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OW
Address: P.O.								Co	mpa	any:	: В	OPCO, LI	9	1												
City: Lovingto	on State: NM	Zip:	88	3260				Att	n:	To	ny	Savoie														
Phone #: (575)) 396-2378 Fax #: (575) 3	96-1	429					Ad	dre	ss:	522	2 W. Mer	mod													
Project#:	Project Owne	r: BO	PCO	,LP				Cit	y: (Car	lsb	ad														
Project Name:	Bass 3 Federal Well #4 5p://	Sife	- //	<u>s"</u>				Sta	ate:	MM		Zip: 8822	20													
Project Location	n: Eddy Co., NM							Pho	one	#:	(43	2)556-8	730													
Sampler Name:	Gen Aranisa						OCCUPANT.	Fax	x #:																	
FOR LAB USE ONLY		0.		H	MA	TRIX			PRE	SE	RV.	SAMPL	ING]												
Lab I.D.	Sample I.D.		# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	111/	CN/00:18											
	5B-4/TMW-/655'	6	4	\perp	1					X		1/24/12	1030	I &												
3	SB-4/TMW-/ P60'	11.	4	1	-				Н	STANDARD CO.	-		1040		,				ļ	_	 	ļ				
	313-4/ TANN-16 100	V	V	\vdash	V	4			$\vdash \mid$	•	-	V	1200	W	4				-			-				
		-		\vdash	+-	+-								-	+				-		├					
		+	H			+	\vdash				-			-	+				-	-	-	-				
						+						1000000		\vdash	1						\vdash					
														1	T				1	†	 					
														l						T	1					
analyses. All claims includir service. In no event shall C affiliates or successors arising	nd Damages. Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, includir ing out of or related to the performance of services hereunder by	e deemed ng without Cardinal	d waive t limitat regard	ed unless ation, bus dless of	s made siness ir whether	in writin	ng and tions, I	d received loss of	ived by fuse, o	y Card or loss	linal w s of pr	ithin 30 days aft ofits incurred by	er completion of t client, its subsidia	he app aries,		SEE SOM SANCARIO										
Relinquished By	1/27//2	Re	ceiv	red B	sy:						711.		Phone Re Fax Resu			☐ Ye		No No		Phone Fax #:	#:					
12/12	Time: 09/5	7091	Kir	n	IN	AL		/					REMARK						1							
Relinguished By Paleotal Delivered By	y: Date: 7/1	Z Re	ceiv	red B	By:	A	lle	M ion	- La	CHE	//	ED BY:	1						ts to	-	asine	env.co	om			

♠ & TAsavoie@BassPet.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Yes Yes
No No



January 26, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 01/20/12 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 01/20/2012 Sampling Date: 01/19/2012

Reported: 01/26/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: WEST WALL 50' (H200148-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/23/2012	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	17.2	10.0	01/25/2012	ND	196	97.8	200	12.1	
DRO >C10-C28	172	10.0	01/25/2012	ND	238	119	200	10.1	
EXT DRO >C28-C35	29.3	10.0	01/25/2012	ND					
Surrogate: 1-Chlorooctane	90.9 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	119 %	% 57.6-15	8						

Sample ID: EAST WALL 50' (H200148-02)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/23/2012	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2012	ND	196	97.8	200	12.1	
DRO >C10-C28	<10.0	10.0	01/25/2012	ND	238	119	200	10.1	
EXT DRO >C28-C35	<10.0	10.0	01/25/2012	ND					
Surrogate: 1-Chlorooctane	107 9	55.5-15	4						
Surrogate: 1-Chlorooctadecane	151 9	57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 01/20/2012 Sampling Date: 01/19/2012

Reported: 01/26/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: EAST WALL 100' (H200148-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/23/2012	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2012	ND	196	97.8	200	12.1	
DRO >C10-C28	<10.0	10.0	01/25/2012	ND	238	119	200	10.1	
EXT DRO >C28-C35	<10.0	10.0	01/25/2012	ND					
Surrogate: 1-Chlorooctane	95.4	% 55.5-15	i.4						
Surrogate: 1-Chlorooctadecane	123	% 57.6-15	8						

Sample ID: WEST WALL 100' (H200148-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/23/2012	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2012	ND	196	97.8	200	12.1	
DRO >C10-C28	<10.0	10.0	01/25/2012	ND	238	119	200	10.1	
EXT DRO >C28-C35	<10.0	10.0	01/25/2012	ND					
Surrogate: 1-Chlorooctane	85.6	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	118	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 01/20/2012 Sampling Date: 01/19/2012

Reported: 01/26/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: WEST WALL 150' (H200148-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/23/2012	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2012	ND	196	97.8	200	12.1	
DRO >C10-C28	<10.0	10.0	01/25/2012	ND	238	119	200	10.1	
EXT DRO >C28-C35	<10.0	10.0	01/25/2012	ND					
Surrogate: 1-Chlorooctane	92.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	127	% 57.6-15	8						

Sample ID: EAST WALL 150' (H200148-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/23/2012	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2012	ND	196	97.8	200	12.1	
DRO >C10-C28	<10.0	10.0	01/25/2012	ND	238	119	200	10.1	
EXT DRO >C28-C35	<10.0	10.0	01/25/2012	ND					
Surrogate: 1-Chlorooctane	91.2	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	127	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/20/2012 Sampling Date: 01/19/2012

Reported: 01/26/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: EAST WALL 200' (H200148-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/24/2012	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2012	ND	196	97.8	200	12.1	
DRO >C10-C28	<10.0	10.0	01/25/2012	ND	238	119	200	10.1	
EXT DRO >C28-C35	<10.0	10.0	01/25/2012	ND					
Surrogate: 1-Chlorooctane	81.6	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	110	% 57.6-15	8						

Sample ID: WEST WALL 200' (H200148-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/24/2012	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/25/2012	ND	196	97.8	200	12.1	
DRO >C10-C28	<10.0	10.0	01/25/2012	ND	238	119	200	10.1	
EXT DRO >C28-C35	<10.0	10.0	01/25/2012	ND					
Surrogate: 1-Chlorooctane	105	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	140	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(3/3) 333-2320 FAX (3/3) 333-24/		COMPLEX SO	NAME AND ADDRESS OF	en en en en en en en en en en en en en e	NAME OF TAXABLE PARTY.	NO THE OWNER OF THE OWNER	STEMPON STREET		E ESTADO	CONCLINATION OF STREET	SEPTEMBER PROPERTY.	Company of the Control	MARCHEDITEIN	MOT REPORTED	0.5141	*AMPTONIA		TELEGRAPHICAL CO.	CO TO	CONTRACTOR CONTRACTOR	HOLONGHA WARRE	CONTRACTOR OF THE PARTY OF THE
Company Name	Basin Environmental Service 7	ech	nol	ogies	, LL	<u> </u>	SEASON SEC	NATIONALISMAN	Ban la	LTO		paconnanna	granacamus granacamus	WARREST CO.	922 ORIENTES SEC	ANA	LYSIS	o Kb	UUE	<u> </u>	parametria de la constanta de	and the same of the same of	NAME OF TAXABLE PARTY.
Project Manage	Ben J. Arguijo						P.O.	#:			NA AND SECURITY OF THE SECURIT												
Address: P.O.	Box 301			*******			Com	pany:	BOI	PCO, LP													
City: Lovingto	on State: NM	Zip	: 88	3260			Attn	: Ton	ny S	avoie													
Phone #: (575)	396-2378 Fax #: (575) 39	6-1	429	1			Add	ress: 5	522	w. Mern	nod												
Project #:	Project Owner	; BC	PCC	, LP			City:	Carl	sba	d													
Project Name:	BASS 3 FED 4 Site B						State	e: NM	Z	ip: 88220)	Michael											
	EDDY, NM.						Pho	ne #: (4	432)	556-87	30							1					
	Jody Walters						Fax	#:						l x									
FOR LAB USE ONLY	el E esta Procesa de la consenhaciona <mark>d</mark> es establecos destributas de la colonia de la			ALCO DE NOS DELOS	MATR	IX	Р	RESER	٩V.	SAMPLI	NG			BTEX									
Lab I.D. H200148	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	8015m	Chlorides	10 FOR									
1	westwall 50'	G	(Y			γ		1-19-17	10:00	×	×	X			<u> </u>			<u> </u>			
2.	EAST wall 50'	6	1		X			Y		1-19-17	10:10	×	×	14	<u> </u>								
3	EASTWALL 100'	G	1		X			Х		1-19-12	10:20	\times	×	×									
4	Westwall 100'	G	1_		X			Х		1-19-17	10:30	\times	×	X									
5	West wall 150'	G	1		У			X		1-19-12	10:40	×	1										
6	EAST Wall 150'	G	١		}			X	-		10:50	\geq	i	×									
7	EAST Wall 200'	6	1		X			1/2		1-19.12		X	×	×						<u> </u>			
8	West wall 200'	6	1		X		1000	V	1	-19-12	11910	_	~	1		ļ		<u> </u>					
						-			_						ļ	 			 				
	nd Damages, Cardinal's liability and client's exclusive remedy for a	_	L			n Videla sunda en en		DE 20 REPUBLICATION		no xyraesan magaalaa		and the same of th	-	- AMBREW CONTRACT		DESCRIPTION OF THE PROPERTY OF	N. CHESTAGORIS	designation of the same of the	- ACCUPATION OF	-	ORDER DE CHECK	275.000-0-1400-0-140	MAGNICUTE SERVICE

PLEASE NOTE: Liability and Oamages. Cardinat'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 be deather that the consequental 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	f services hereunder by Ca	rdinal, regardless of whether such claim is based upon	any of the above stated rea	sons or otherwise.			
Relinquighed By:	Date:	Received By:	/	Phone Result:	☐ Yes	□ No	Add'l Phone #:
	1.70.10	100 10		Fax Result:	☐ Yes	□ No	Add'l Fax #:
(w)	Time: 12.00	Withing Kon		REMARKS:			
Relinquished By:	Date: 20 12	Received By:	<i>'</i>				
MA A Ba	2016	a 15/2011					
Thomas James	Time: 1400	DULCOLD H MUR,		Pleas	e email	result	s to pm@basinenv.com
Delivered By: (Circle One)		Sample Condition C	HECKED BY:	ይ ግ'ልቋ	avoie@P	assPet.	COM
Sampler - UPS - Bus - Only	50	Cool Intact Ves Ves	(Inimals)	u 1110	Q 7 0 2 0 0 2		

† Cardinal cannot accept ya real/ellanges. Please fax written changes to 505-393-2476

Page 7 of 7



January 27, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 01/25/12 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/25/2012 Sampling Date: 01/24/2012

Reported: 01/27/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: NORTH WALL (H200180-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/26/2012	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/26/2012	ND	174	86.8	200	0.0835	
DRO >C10-C28	12.7	10.0	01/26/2012	ND	225	113	200	6.70	
EXT DRO >C28-C35	<10.0	10.0	01/26/2012	ND					
Surrogate: 1-Chlorooctane	93.2 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	123 %	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(3/3) 393-2320 FAX (3/3) 393-24/		Toronto S	-	State of the last	-	-	CHARGE SE	200 A		40		ALTERNATION OF		12 3 25 65	Selforo and to		1010		0115		-	**********	
Сопрапу мате	Basin Environmental Service	ech	no]	ogi	es, L	LC	- las		THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TW	LLT	U_		ent de comme d		-	-	ANAI	YSIS	RE	QUE	51	Parametric Science of the Control		MONE STORESSON MERCOL
Project Manage	r: _{Ben J.} Arguijo						Ρ.	0. #	:	**************************************		/A.A.A.												
Address: P.O.	Box 301						C	omp	any: 🗈	OPCO,	LP													
City: Lovingto	on State: NM	Zip	: 8	3260			Α	ttn:	Tony	Savoi	e				ĺ									
Phone #: (575)) 396-2378 Fax #: (575) 39	6-1	429	9			А	ddre	ss: 52	2 w. M	lerm	od												
Project#:	Project Owner	: BC	PCC), L	P		С	ity:	Carlsh	oad														
Project Name:	BASS 3 FED 4 Site 3						S	ate:	NM	Zip: 88	3220)												
Project Location	I: EDDY N.M.						Р	none	#:(43	2)556-	-873	3.0												
Sampler Name:	Jody Walters						F	ax #:							3TEX						İ			
FOR LABUSE ONLY					MAT	RIX		PR	ESERV	SAN	/PLII	NG		2	10									
Lab I.D. H20018D	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE OTHER	ACID/BASE:	ICE / COOL OTHER:	DAT	ΓE	TIME	W5108	Chiloridos	Hold For	1								
1	North wall	G	1		λ				X	1-24	-12	3:00	×	×	×									
												-												
					!																			
								100																
PLEASE NOTE: Liability a	nd Darnages. Cardinal's liability and client's exclusive remedy for a	ny clai	nı aris	ing whe	ther based	in con	tract or t	ort, sha	all be limited	to the amou	unt paid	d by the client for	the				-						57.50	

PLEASE NOTE: Usbility and Damages. Cardinal's lability and chent's exclusive remedy for any daim 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 varieted inless 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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiantes.

affiliates or syccessors arising out of or related to the performance	of services hereunder by Card	linal, regardless of whether such claim is based	a upon any of the above stated re	asons or otherwise.			
Relinguished By:	Date: 1/ 1	Received By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:
// /)	125/12			Fax Result:	☐ Yes	□ No	Add'l Fax #:
befall	Time: 0600	Pakeruh wall		REMARKS:			
Relinguished By: PUCO+4N Well	Date: 05/12-	Received By: JOCH MEN	Wor C	Pleas	se email	result	ts to pm@basinenv.com
Delivered By: (Circle One)		() Sample Condition	CHECKED BY:	& ТА:	savoie®	BassPet	COM
Sampler - UPS - Bus - Other:	محمدد	Cool Intact Soll Yes Yes No No	(Initials)				

Appendix E Laboratory Analytical Reports (Groundwater)



January 04, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL 4 'C'

Enclosed are the results of analyses for samples received by the laboratory on 12/30/11 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 12/30/2011 Sampling Date: 12/30/2011

Reported: 01/04/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL 4 'C' Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: WEST WALL (H102799-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2012	ND	206	103	200	4.54	
DRO >C10-C28	<10.0	10.0	01/04/2012	ND	177	88.4	200	3.61	
EXT DRO >C28-C35	<10.0	10.0	01/04/2012	ND					
Surrogate: 1-Chlorooctane	108	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	128	% 57.6-15	8						

Sample ID: SOUTH WALL (H102799-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2012	ND	206	103	200	4.54	
DRO >C10-C28	<10.0	10.0	01/04/2012	ND	177	88.4	200	3.61	
EXT DRO >C28-C35	<10.0	10.0	01/04/2012	ND					
Surrogate: 1-Chlorooctane	100	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	123	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 12/30/2011 Sampling Date: 12/30/2011

Reported: 01/04/2012 Sampling Type: Soil

Project Name: BASS 3 FEDERAL 4 'C' Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: EAST WALL (H102799-03)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2012	ND	206	103	200	4.54	
DRO >C10-C28	<10.0	10.0	01/04/2012	ND	177	88.4	200	3.61	
EXT DRO >C28-C35	<10.0	10.0	01/04/2012	ND					
Surrogate: 1-Chlorooctane	99.1	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	122 9	% 57.6-15	8						

Sample ID: WATER WELL (H102799-04)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	336	4.00	01/03/2012	ND	100	100	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2420	5.00	01/03/2012	ND	243	101	240	0.260	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service	Technologies, LLC	BILL TO			ANALYSIS RE	EQUEST	
Project Manager: Ben J. Arguijo		P.O. #:					
Address: P.O. Box 301		Company: BOPCO, LP					
City: Lovington State: NM	Zip: 88260	Attn: Tony Savoie					
Phone #: (575) 396-2378	96-1429	Address: 522 w. Mermod					
Project #: Project Owns	r: BOPCO, LP	City: Carlsbad		$ \times $			
Project Name: BASS 3 Federal 4	*C"	State: NM Zip:88220	1	(2)			
Project Location: Eddy County	CONTRACTOR AND A STATE OF THE S	Phone #: (432) 556-8730	2	3			
Project Name: BASS 3 Federal 4 Project Location: Eddy County Sampler Name: Troy Halm		Fax #:	8015m	0 3			
Lab I.D. Sample I.D.	# CONTAINERS # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	PRESERV. SAMPLING OTHER: OTHER: OTHER: DATE TIME) HG1	10/2 fo	3		
1 West Wall	Q 1 /	12/30/11 10/2					
2 South Wall	G 1 /	12/30/11 1030					
1 West Wall 7 South Wall 3 East Wall Waterwell	G /	12/30/11 1105	- / /				
y waterwell		12/3/11/900		1 1			
PLEASE NOTE: Liability and Damages, Cardinafs liability and client's exclusive remedy for analyses. All claims including those for negligence and any other cause whateveer shall be service. In no event shall Cardinal be liable for incidental or consequental damages, includi affiliates or successors arising out of or related to the performance of services hereunder by	e deemed waived unless made in writing a ng without limitation, business interruptions	nd received by Cardinal within 30 days after completions, loss of use, or loss of profits incurred by client, its sui	n of the applicable osidiaries, nerwise.				
Relinquished By: Date;	Received By:	Phone Fax Re		Yes □ No Yes □ No	Add'l Phone #: Add'l Fax #:		
Relinquished By: Date: Tirge:	Much 3	ILLUGAL REMA				MA	
Relinquished By: Date:	Received By:	V 4					
Time:		cultura esta de la cultura de					
Delivered By: (Circle One)	Sample Cond			email result sie@BassPet	ts to pm@basin	env.com	
Sampler - UPS - Bus - Other:	Cool Intact		a IABAVO	,remanaret	· OOH		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26



January 31, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 01/25/12 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 01/25/2012 Sampling Date: 01/25/2012 Reported: 01/31/2012 Sampling Type: Water

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: TMW-1 (H200188-01)

BTEX 8260B	mg/	'L	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	01/25/2012	ND	0.022	110	0.0200	10.1	
Toluene*	0.001	0.001	01/25/2012	ND	0.019	97.0	0.0200	10.4	
Ethylbenzene*	< 0.001	0.001	01/25/2012	ND	0.020	100	0.0200	10.1	
Total Xylenes*	<0.003	0.003	01/25/2012	ND	0.060	100	0.0600	10.7	
Surrogate: Dibromofluoromethane	125 9	125 % 59.8-161							
Surrogate: Toluene-d8	91.4	% 75.2-11	5						
Surrogate: 4-Bromofluorobenzene	88.3	% 53.7-12	0						
Chloride, SM4500Cl-B	mg/	'L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	24.0	4.00	01/27/2012	ND	104	104	100	0.00	
TDS 160.1	mg/L Analy								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2020	5.00	01/27/2012	ND	238	99.2	240	1.50	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

-ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name.		Vijonmental									DI	LE 10							ANA	LIOI	O KE	QUE	31			
Project Manager	Ben A	rquijo						_ /	P.O.	#:		····									i					
Address: P.D.	Ben A	·			*****************				Con	npan	y: 5	OPCO.	LP					k								
city: Louin	yton,	State: NM Fax #: 575- Project Owner (1 Well # 4 5)	Zip	: 8	80	260		_/	Attn	: J	ON	Sal	voie						İ		İ					
Phone #: 575 -	396 3378	Fax #: 575-	34	1-1	42	9		_/	Address: 522 W. Mermod																	
Project #:		Project Owner	r: L	101	CC), <u>L</u>	P	_ (City	: (ar	15 bac	<i>l</i>	******************							1					
Project Name: 🖗	bass 3 Federa	1 Well # 45)	oill	5;	te	"B	1					Zip: 88														
Project Location	" Eddy, Co	mirce, N	\mathcal{M}						Pho	ne#	: 43	2-551	-87	30							1					
Sampler Name:	Miguel Ru	mireé					-	_ !	Fax	#:					li			1								
FOR LAB USE ONLY	•				l	MA	TRIX	(F	PRES	ERV.	SAMP	LING													
Lab I.D. H2 <i>0</i> 0188	Sampl	le I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	MASTEWATER SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	; T	IME.	Chlor, de	7.05	B TEX									
-1	TMW-1	2	G	4	X	- 0,		-0,	Ť	X		1.25.1		:55	X	X	X									
	, , , , ,	LAMAZANIA TETEVALIA DA ALBERTA DE LA CONTRACTOR DE LA CON	_	ľ					1										1		-					
	was a second of the second of	TOUR AMPEREURY METALOGY																								
			!	 	ļ																			a carree value		
							-		+									-	-	-						
			-	-	-	_		li			-									-	-					
	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			╁	-		-		-		+							<u> </u>	-			<u> </u>				
		and client's exclusive remedy for														l				<u> </u>	<u> </u>					
service. In no event shall C	ardinal be liable for incidental o	y other cause whatsoever shall be or consequental damages, includin	g witho	ut limit	ation, b	usiness i	nterrupt	ions, lo	ss of I	use, or l	oss of p	rafits incurred t	y client,	its subsidia	aries,	ble										
Relinquished By		mance of services hereunder by (ved		such o	L I	pased	upon a	ny of th	e above stated	Ph	one Re	sult:	□ Ye		No		Phone	#:					
Mul	lk,	Time: 15	3/	1	1		. 2	VI c	1/	10	091	Z	DE	x Resul	c.	□ Ye		No.		Fax #:						
Relinguished By	1:	Date:	R	Coi	ved	Rv.	9	4	71			-	P1	ease	Ê	-ma	1;	resi	alts	to	PN	N (P)	bas	ine	nv.	Com
Kemiquisiica B	•		U	,,,,,	* C G	~ ,.							Ü	nd	TA	20	in.	rec	a (2)	AS	OC	τ. C	2W			CO/M
		Time:													1 , 1	211	VU.~	m		J 1 1, J.	TE	١, ٥	VIII			
Delivered By	: (Circle One)					Sampl Cool	Inta	ct		C		(ED BY: tials)														
Sampler - UPS	- Bus - Other:		5	6	-	□ Ye	s A	Yes			()4	tials)														
			-		-			.10	-	-	1	·	-		-	-							_			أحصم

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



July 10, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 03/15/12 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service

Lovington NM, 88260

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported: 10-Jul-13 15:08

P.O. Box 301

Project Number: NONE GIVEN

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	H200653-01	Water	15-Mar-12 11:45	15-Mar-12 14:15

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Basin Environmental Service

P.O. Box 301

Lovington NM, 88260

Project: BASS 3 FEDERAL WELL #4 SPILL S

Project Number: NONE GIVEN

Project Manager: BEN J. ARGUIJO Fax To: (575) 396-1429 Reported:

10-Jul-13 15:08

MW-1 H200653-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Alkalinity, Bicarbonate	83.0	5.00	mg/L	1	2030908	HM	16-Mar-12	310.1	
Alkalinity, Carbonate	ND	0.00	mg/L	1	2030908	HM	16-Mar-12	310.1	
Chloride*	24.0	4.00	mg/L	1	2031404	HM	16-Mar-12	4500-Cl-B	
Fluoride	4.48	0.200	mg/L	1	2032704	HM	27-Mar-12	4500F C	
Nitrate as N	2.35	0.100	mg/L	1	2040413	HM	16-Mar-12	353.3	
Phosphorus, Total	0.10	0.10	mg/L	1	2040414	HM	27-Mar-12	365.3	
Sulfate*	1170	125	mg/L	12.5	2031906	CK	19-Mar-12	375.4	
Dissolved Metals									
Aluminum	0.749	0.0500	mg/L	1	2040405	CK	23-Mar-12	200.7	GAI
Arsenic	0.0060	0.0005	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Barium	0.0342	0.000500	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Boron	ND	0.200	mg/L	1	2040405	CK	23-Mar-12	200.7	GAI
Cadmium	ND	0.00010	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Calcium	445	1.00	mg/L	1	2040405	CK	23-Mar-12	200.7	GAI
Chromium	0.003	0.001	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Cobalt	0.00110	0.00010	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Copper	0.0012	0.0001	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Iron	0.302	0.050	mg/L	1	2040405	CK	23-Mar-12	200.7	GAI
Lead	ND	0.0005	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Magnesium	29.8	1.00	mg/L	1	2040405	CK	23-Mar-12	200.7	GAI
Manganese	0.0118	0.0005	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Mercury	ND	0.0002	mg/L	1	2040407	CK	21-Mar-12	245.1	GAI
Molybdenum	0.0046	0.0005	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Nickel	0.0206	0.0005	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Potassium	2.95	1.00	mg/L	1	2040405	CK	23-Mar-12	200.7	GAI
Selenium	0.004	0.001	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Silver	ND	0.00010	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Sodium	9.30	1.00	mg/L	1	2040405	CK	23-Mar-12	200.7	GAI

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO Fax To: (575) 396-1429

> MW-1 H200653-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Dissolved Metals									
Zinc	0.007	0.001	mg/L	1	2040406	CK	21-Mar-12	200.8	GAI
Volatile Organic Compounds by EPA	A Method 8260B								
Dichlorodifluoromethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Chloromethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Vinyl chloride*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Bromomethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Chloroethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Trichlorofluoromethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,1-Dichloroethene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Carbon disulfide*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Iodomethane	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Acrolein*	ND	0.005	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Methylene chloride*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Acetone*	ND	0.005	mg/L	1	2031604	CMS	16-Mar-12	8260B	
trans-1,2-Dichloroethene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Methyl t-Butyl Ether*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,1-Dichloroethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Acrylonitrile*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Vinyl acetate*	ND	0.005	mg/L	1	2031604	CMS	16-Mar-12	8260B	
cis-1,2-Dichloroethene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
2,2-Dichloropropane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Bromochloromethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Chloroform*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Carbon tetrachloride*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,1,1-Trichloroethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,1-Dichloropropene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
2-Butanone*	ND	0.005	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Benzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

MW-1 H200653-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Volatile Organic Compounds by EPA	Method 8260B								
1,2-Dichloroethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Trichloroethene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Dibromomethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,2-Dichloropropane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Bromodichloromethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
cis-1,3-Dichloropropene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Toluene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
4-Methyl-2-pentanone*	ND	0.005	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Tetrachloroethene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
trans-1,3-Dichloropropene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,1,2-Trichloroethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Dibromochloromethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,3-Dichloropropane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,2-Dibromoethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
2-Hexanone*	ND	0.005	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Chlorobenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Ethylbenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,1,1,2-Tetrachloroethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
m+p - Xylene*	ND	0.002	mg/L	1	2031604	CMS	16-Mar-12	8260B	
o-Xylene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Total Xylenes*	ND	0.003	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Bromoform*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Styrene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Isopropylbenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Bromobenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
n-Propylbenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,1,2,2-Tetrachloroethane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
2-Chlorotoluene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1.2.3-trichloropropane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.

Celey D. Keene, Lab Director/Quality Manager

Reported:

10-Jul-13 15:08



Analytical Results For:

Basin Environmental Service

P.O. Box 301

Lovington NM, 88260

Project: BASS 3 FEDERAL WELL #4 SPILL S

Project Number: NONE GIVEN

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

MW-1 H200653-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Volatile Organic Compounds by EPA	Method 8260B								
1,3,5-Trimethylbenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
trans-1,4-Dichloro-2-butene	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
4-Chlorotoluene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
tert-Butylbenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,2,4-Trimethylbenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
sec-Butylbenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
p-Isopropyltoluene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,3-Dichlorobenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,4 Dichlorobenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
n-Butylbenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,2-Dichlorobenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,2-Dibromo-3-chloropropane*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Hexachlorobutadiene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,2,4-Trichlorobenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Naphthalene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
1,2,3-Trichlorobenzene*	ND	0.001	mg/L	1	2031604	CMS	16-Mar-12	8260B	
Surrogate: Dibromofluoromethane		114 %	70.2	-143	2031604	CMS	16-Mar-12	8260B	
Surrogate: Toluene-d8		101 %	73.8	-118	2031604	CMS	16-Mar-12	8260B	
Surrogate: 4-Bromofluorobenzene		88.8 %	48-	134	2031604	CMS	16-Mar-12	8260B	
Semivolatile Organic Compounds by O	GCMS								
Pyridine	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
N-Nitrosodimethylamine	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2-Picoline	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Methyl methanesulfonate	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Ethyl methanesulfonate	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Pentachloroethane	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Aniline	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Phenol	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
			=						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

MW-1 H200653-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Semivolatile Organic Compounds by GCMS									
2-Chlorophenol	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
bis(2-Chloroethyl)ether	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
1,4-Dichlorobenzene	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
1,3-Dichlorobenzene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Benzyl alcohol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
1,2-Dichlorobenzene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
bis(2-Chloroisopropyl)ether	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Acetophenone	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2-Methylphenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
4-Methylphenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Hexachloroethane	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
N-Nitrosodi-n-propylamine	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Nitrobenzene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
N-Nitrosopiperidine	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Isophorone	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2-Nitrophenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2,4-Dimethylphenol	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
bis(2-Chloroethoxy)methane	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2,6-Dichlorophenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
1,2,4-Trichlorobenzene	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Naphthalene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2,4-Dichlorophenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
4-Chloroaniline	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Hexachloropropene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Hexachlorobutadiene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
N-Nitroso-di-n-butylamine	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
4-Chloro-3-methylphenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Safrole	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2-Methylnaphthalene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

MW-1 H200653-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Semivolatile Organic Compounds by GCMS									
1,2,4,5-Tetrachlorobenzene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Hexachlorocyclopentadiene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2,4,6-Trichlorophenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2,4,5-Trichlorophenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Isosafrole	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2-Chloronaphthalene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2-Nitroaniline	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Dimethylphthalate	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Acenaphthylene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2,6-Dinitrotoluene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
3-Nitroaniline	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Acenaphthene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2,4-Dinitrophenol*	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Dibenzofuran	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
4-Nitrophenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Pentachlorobenzene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2,4-Dinitrotoluene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2-Naphthylamine	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
1-Naphthylamine	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
2,3,4,6-Tetrachlorophenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Fluorene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Diethylphthalate	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
4-Chlorophenyl-phenyl ether	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
5-Nitro-o-toluidine	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
4-Nitroaniline	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
4,6-Dinitro-2-methylphenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Diphenylamine	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Azobenzene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
1,3,5-Trinitrobenzene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	

*=Accredited Analyte Cardinal Laboratories

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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

P.O. Box 301

Project Number: NONE GIVEN

Reported: 10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

MW-1 H200653-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Semivolatile Organic Compounds by C	GCMS								
4-Bromophenyl-phenyl ether	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Phenacetin	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Diallate	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Hexachlorobenzene	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
4-Aminobiphenyl	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Pentachlorophenol	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Pentachloronitrobenzene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Pronamide	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Phenanthrene	0.001	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Anthracene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Dinoseb	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Carbazole	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Di-n-butylphthalate	ND	0.010	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Isodrin	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Fluoranthene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Benzidine	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Pyrene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Dimethylaminoazobenzene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Chlorobenzilate	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Butylbenzylphthalate	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Benzo[a]anthracene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
3,3'-Dichlorobenzidine	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Chrysene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
bis(2-Ethylhexyl)phthalate	0.013	0.010	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Di-n-octylphthalate	ND	0.005	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Benzo[b]flouranthene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Benzo[k]flouranthene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Benzo[a]pyrene	ND	0.0002	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
3-Methylcholanthrene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

MW-1 H200653-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Semivolatile Organic Compounds by GCMS									
Indeno[1,2,3-cd]pyrene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Dibenz[a,h]anthracene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Benzo[g,h,i]perylene	ND	0.001	mg/L	1.02	2040408	CK	28-Mar-12	8270C	
Surrogate: 2-Fluorophenol		41.4 %	21-	100	2040408	CK	28-Mar-12	8270C	
Surrogate: Phenol-d5		27.6 %	10	-94	2040408	CK	28-Mar-12	8270C	
Surrogate: Nitrobenzene-d5		87.8 %	35-	114	2040408	CK	28-Mar-12	8270C	
Surrogate: 2-Fluorobiphenyl		125 %	43-	116	2040408	CK	28-Mar-12	8270C	S-04
Surrogate: 2,4,6-Tribromophenol		171 %	10-	123	2040408	CK	28-Mar-12	8270C	S-04
Surrogate: Terphenyl-dl4		154 %	33-	141	2040408	CK	28-Mar-12	8270C	S-04

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2030908 - General Prep - Wet Chem										
Blank (2030908-BLK1)				Prepared &	Analyzed:	09-Mar-12				
Alkalinity, Carbonate	ND	0.00	mg/L							
Alkalinity, Bicarbonate	ND	5.00	mg/L							
LCS (2030908-BS1)				Prepared &	Analyzed:	09-Mar-12				
Alkalinity, Carbonate	ND	0.00	mg/L				80-120			
Alkalinity, Bicarbonate	127	5.00	mg/L				80-120			
LCS Dup (2030908-BSD1)				Prepared & Analyzed: 09-Mar-12						
Alkalinity, Carbonate	ND	0.00	mg/L				80-120		20	
Alkalinity, Bicarbonate	127	5.00	mg/L				80-120	0.00	20	
Duplicate (2030908-DUP1)	Sou	rce: H200513-	-02	Prepared & Analyzed: 09-Mar-12						
Alkalinity, Carbonate	ND	0.00	mg/L		0.00				20	
Alkalinity, Bicarbonate	1880	5.00	mg/L		1930			2.62	20	
Batch 2031404 - General Prep - Wet Chem										
Blank (2031404-BLK1)				Prepared &	: Analyzed:	14-Mar-12				
Chloride	ND	4.00	mg/L							
LCS (2031404-BS1)				Prepared &	: Analyzed:	14-Mar-12				
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (2031404-BSD1)				Prepared &	: Analyzed:	14-Mar-12				
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	
Duplicate (2031404-DUP1)	Sou	rce: H200626-	-02	Prepared & Analyzed: 14-Mar-12						
Chloride	272	4.00	mg/L		280			2.90	20	

*=Accredited Analyte Cardinal Laboratories

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 the 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.



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2031906 - General Prep - Wet Chem										
Blank (2031906-BLK1)				Prepared &	Analyzed:	19-Mar-12				
Sulfate	ND	10.0	mg/L							
LCS (2031906-BS1)				Prepared &	Analyzed:	19-Mar-12				
Sulfate	19.8	10.0	mg/L	20.0		99.1	80-120			
LCS Dup (2031906-BSD1)				Prepared &	Analyzed:	19-Mar-12				
Sulfate	21.6	10.0	mg/L	20.0		108	80-120	8.41	20	
Duplicate (2031906-DUP1)	Sour	ce: H200667-	-01	Prepared &	: Analyzed:	19-Mar-12				
Sulfate	543	10.0	mg/L		529			2.61	20	
Batch 2032704 - General Prep - Wet Chem										
Blank (2032704-BLK1)				Prepared &	: Analyzed:	27-Mar-12				
Fluoride	ND	0.200	mg/L							
LCS (2032704-BS1)				Prepared &	Analyzed:	27-Mar-12				
Fluoride	0.400	0.200	mg/L	0.400		100	80-120			
Duplicate (2032704-DUP1)	Sour	ce: H200612-	-01	Prepared &	: Analyzed:	27-Mar-12				
Fluoride	1.64	0.200	mg/L		1.59			3.10	20	
Batch 2040413 - General Prep - Wet Chem										
Blank (2040413-BLK1)				Prepared &	Analyzed:	16-Mar-12				
Nitrate as N	ND	0.100	mg/L							

*=Accredited Analyte Cardinal Laboratories

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 the 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.



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported: 10-Jul-13 15:08

P.O. Box 301

Lovington NM, 88260

Project Number: NONE GIVEN

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2040413 - General Prep - Wet Chem										
LCS (2040413-BS1)				Prepared &	α Analyzed:	16-Mar-12				
Nitrate as N	5.10	0.100	mg/L	5.00		102	80-120			
Duplicate (2040413-DUP1)	Sour	ce: H200653-	01	Prepared &	α Analyzed:	16-Mar-12				
Nitrate as N	2.34	0.100	mg/L		2.35			0.426	20	
Batch 2040414 - General Prep - Wet Chem										
Blank (2040414-BLK1)				Prepared &	Analyzed:	27-Mar-12				
Phosphorus, Total	ND	0.10	mg/L							
LCS (2040414-BS1)				Prepared &	Analyzed:	27-Mar-12				
Phosphorus, Total	0.79	0.10	mg/L	0.800		98.8	80-120			
Duplicate (2040414-DUP1)	Sour	се: Н200653-	01	Prepared &	Analyzed:	27-Mar-12				
Phosphorus, Total	0.09	0.10	mg/L	·	0.10			10.5	20	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Dissolved Metals - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Datab 2040405	- Dissolved/Potentially	Discolved Motels
Batch 2040405	- Dissoived/Potentially	Dissolved Metals

Blank (2040405-BLK1)				Prepared: 22-Ma	ır-12 Analyzed: 2	3-Mar-12			
Boron	ND	0.200	mg/L						
Sodium	ND	1.00	mg/L						
Potassium	ND	1.00	mg/L						
Calcium	ND	1.00	mg/L						
Iron	ND	0.050	mg/L						
Magnesium	ND	1.00	mg/L						
Aluminum	ND	0.0500	mg/L						
LCS (2040405-BS1)				Prepared: 22-Ma	ır-12 Analyzed: 2	3-Mar-12			
Calcium	5.05		mg/L	5.00	101	85-115			
Magnesium	26.5		mg/L	25.0	106	85-115			
Sodium	7.84		mg/L	8.10	96.8	85-115			
Iron	4.92		mg/L	5.00	98.4	85-115			
Aluminum	4.94		mg/L	5.00	98.8	85-115			
Boron	4.79		mg/L	5.00	95.8	85-115			
Potassium	9.87		mg/L	10.0	98.7	85-115			
LCS Dup (2040405-BSD1)				Prepared: 22-Ma	ır-12 Analyzed: 2	3-Mar-12			
Aluminum	4.93		mg/L	5.00	98.6	85-115	0.203	20	
Sodium	7.83		mg/L	8.10	96.7	85-115	0.128	20	
Boron	4.82		mg/L	5.00	96.4	85-115	0.624	20	
Iron	4.91		mg/L	5.00	98.2	85-115	0.203	20	
Potassium	9.75		mg/L	10.0	97.5	85-115	1.22	20	
Calcium	5.05		mg/L	5.00	101	85-115	0.00	20	
Magnesium	26.4		mg/L	25.0	106	85-115	0.378	20	

Batch 2040406 - Dissolved/Potentially Dissolved Metals

Blank (2040406-BLK1)				Prepared: 19-Mar-12 Analyzed: 21-Mar-12	
Nickel	ND	0.0005	mg/L		
Copper	ND	0.0001	mg/L		
Chromium	ND	0.001	mg/L		
Zinc	ND	0.001	mg/L		

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO Fax To: (575) 396-1429

Total Metals by ICPMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2040406 - Dissolved/Potentially	y Dissolved Metals

Blank (2040406-BLK1)				Prepared: 19-Ma	r-12 Analyzed: 2	1-Mar-12			
Cadmium	ND	0.00010	mg/L						
Barium	ND	0.000500	mg/L						
Cobalt	ND	0.00010	mg/L						
Manganese	ND	0.0005	mg/L						
Silver	ND	0.00010	mg/L						
Lead	ND	0.0005	mg/L						
Arsenic	ND	0.0005	mg/L						
Selenium	ND	0.001	mg/L						
Molybdenum	ND	0.0005	mg/L						
LCS (2040406-BS1)				Prepared: 19-Ma	r-12 Analyzed: 2	1-Mar-12			
Copper	0.0489		mg/L	0.0500	97.8	85-115			
Selenium	0.238		mg/L	0.250	95.2	85-115			
Nickel	0.0533		mg/L	0.0500	107	85-115			
Arsenic	0.0458		mg/L	0.0500	91.6	85-115			
Silver	0.0490		mg/L	0.0500	98.0	85-115			
Manganese	0.0484		mg/L	0.0500	96.8	85-115			
Lead	0.0468		mg/L	0.0500	93.6	85-115			
Chromium	0.051		mg/L	0.0500	103	85-115			
Zinc	0.050		mg/L	0.0500	100	85-115			
Cobalt	0.0517		mg/L	0.0500	103	85-115			
Molybdenum	0.0533		mg/L	0.0500	107	85-115			
Cadmium	0.0479		mg/L	0.0500	95.8	85-115			
Barium	0.0476		mg/L	0.0500	95.2	85-115			
LCS Dup (2040406-BSD1)				Prepared: 19-Ma	r-12 Analyzed: 2	1-Mar-12			
Cobalt	0.0463		mg/L	0.0500	92.6	85-115	11.0	20	
Arsenic	0.0489		mg/L	0.0500	97.8	85-115	6.55	20	
Zinc	0.048		mg/L	0.0500	96.8	85-115	3.65	20	
Chromium	0.046		mg/L	0.0500	92.8	85-115	10.2	20	
Molybdenum	0.0482		mg/L	0.0500	96.4	85-115	10.0	20	
Copper	0.0468		mg/L	0.0500	93.6	85-115	4.39	20	
Silver	0.0462		mg/L	0.0500	92.4	85-115	5.88	20	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Source

Reported:

RPD

P.O. Box 301

Project Number: NONE GIVEN

Reporting

Spike

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Total Metals by ICPMS - Quality Control

Cardinal Laboratories

		reporting		Spine	Bource		FORELE		111 12	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2040406 - Dissolved/Potentia	lly Dissolved Metals									
LCS Dup (2040406-BSD1)				Prepared: 1	19-Mar-12 A	Analyzed: 2	1-Mar-12			
Barium	0.0483		mg/L	0.0500		96.6	85-115	1.46	20	
Manganese	0.0469		mg/L	0.0500		93.8	85-115	3.15	20	
Lead	0.0475		mg/L	0.0500		95.0	85-115	1.48	20	
Cadmium	0.0482		mg/L	0.0500		96.4	85-115	0.624	20	
Nickel	0.0482		mg/L	0.0500		96.4	85-115	10.0	20	
Selenium	0.239		mg/L	0.250		95.6	85-115	0.419	20	
Batch 2040407 - Dissolved/Potentia Blank (2040407-BLK1)	lly Dissolved Metals			Prepared: 2	20-Mar-12 <i>I</i>	Analyzed: 2	1-Mar-12			
Mercury	ND	0.0002	mg/L	•		•				
LCS (2040407-BS1)				Prepared: 2	20-Mar-12 A	Analyzed: 2	1-Mar-12			
Mercury	0.0022		mg/L	0.00200		110	85-115			
LCS Dup (2040407-BSD1)				Prepared: 2	20-Mar-12 A	Analyzed: 2	1-Mar-12			
Mercury	0.0022		mg/L	0.00200		110	85-115	0.00	20	

*=Accredited Analyte Cardinal Laboratories

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 the 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.



Basin Environmental Service

Lovington NM, 88260

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported: 10-Jul-13 15:08

P.O. Box 301

Project Number: NONE GIVEN

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2031604 - Volatiles

Blank (2031604-BLK1)			Prepared & Analyzed: 16-Mar-12
Dichlorodifluoromethane	ND	0.001	mg/L
Chloromethane	ND	0.001	mg/L
Vinyl chloride	ND	0.001	mg/L
Bromomethane	ND	0.001	mg/L
Chloroethane	ND	0.001	mg/L
Trichlorofluoromethane	ND	0.001	mg/L
1,1-Dichloroethene	ND	0.001	mg/L
Carbon disulfide	ND	0.001	mg/L
Iodomethane	ND	0.001	mg/L
Acrolein	ND	0.005	mg/L
Methylene chloride	ND	0.001	mg/L
Acetone	0.006	0.005	mg/L
trans-1,2-Dichloroethene	ND	0.001	mg/L
Methyl t-Butyl Ether	ND	0.001	mg/L
1,1-Dichloroethane	ND	0.001	mg/L
Acrylonitrile	ND	0.001	mg/L
Vinyl acetate	ND	0.005	mg/L
cis-1,2-Dichloroethene	ND	0.001	mg/L
2,2-Dichloropropane	ND	0.001	mg/L
Bromochloromethane	ND	0.001	mg/L
Chloroform	ND	0.001	mg/L
Carbon tetrachloride	ND	0.001	mg/L
1,1,1-Trichloroethane	ND	0.001	mg/L
1,1-Dichloropropene	ND	0.001	mg/L
2-Butanone	ND	0.005	mg/L
Benzene	ND	0.001	mg/L
1,2-Dichloroethane	ND	0.001	mg/L
Trichloroethene	ND	0.001	mg/L
Dibromomethane	ND	0.001	mg/L
1,2-Dichloropropane	ND	0.001	mg/L
Bromodichloromethane	ND	0.001	mg/L
cis-1,3-Dichloropropene	ND	0.001	mg/L

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Lovington NM, 88260

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported: 10-Jul-13 15:08

P.O. Box 301

Project Number: NONE GIVEN

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2031604 - Volatiles

Blank (2031604-BLK1)			Prepared & Analyzed: 16-Mar-12
Toluene	ND	0.001	mg/L
4-Methyl-2-pentanone	ND	0.005	mg/L
Tetrachloroethene	ND	0.001	mg/L
trans-1,3-Dichloropropene	ND	0.001	mg/L
1,1,2-Trichloroethane	ND	0.001	mg/L
Dibromochloromethane	ND	0.001	mg/L
1,3-Dichloropropane	ND	0.001	mg/L
1,2-Dibromoethane	ND	0.001	mg/L
2-Hexanone	ND	0.005	mg/L
Chlorobenzene	ND	0.001	mg/L
Ethylbenzene	ND	0.001	mg/L
1,1,1,2-Tetrachloroethane	ND	0.001	mg/L
m+p - Xylene	ND	0.002	mg/L
o-Xylene	ND	0.001	mg/L
Total Xylenes	ND	0.003	mg/L
Bromoform	ND	0.001	mg/L
Styrene	ND	0.001	mg/L
Isopropylbenzene	ND	0.001	mg/L
Bromobenzene	ND	0.001	mg/L
n-Propylbenzene	ND	0.001	mg/L
1,1,2,2-Tetrachloroethane	ND	0.001	mg/L
2-Chlorotoluene	ND	0.001	mg/L
1.2.3-trichloropropane	ND	0.001	mg/L
1,3,5-Trimethylbenzene	ND	0.001	mg/L
trans-1,4-Dichloro-2-butene	ND	0.001	mg/L
4-Chlorotoluene	ND	0.001	mg/L
tert-Butylbenzene	ND	0.001	mg/L
1,2,4-Trimethylbenzene	ND	0.001	mg/L
sec-Butylbenzene	ND	0.001	mg/L
p-Isopropyltoluene	ND	0.001	mg/L
1,3-Dichlorobenzene	ND	0.001	mg/L
1,4 Dichlorobenzene	ND	0.001	mg/L

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (2031604-BLK1)				Prepared & Analy	yzed: 16-Mar-1	2
n-Butylbenzene	ND	0.001	mg/L			
1,2-Dichlorobenzene	ND	0.001	mg/L			
1,2-Dibromo-3-chloropropane	ND	0.001	mg/L			
Hexachlorobutadiene	ND	0.001	mg/L			
1,2,4-Trichlorobenzene	ND	0.001	mg/L			
Naphthalene	ND	0.001	mg/L			
1,2,3-Trichlorobenzene	ND	0.001	mg/L			
Surrogate: Dibromofluoromethane	0.0101		mg/L	0.0100	101	70.2-143
Surrogate: Toluene-d8	0.0103		mg/L	0.0100	103	73.8-118
Surrogate: 4-Bromofluorobenzene	0.00929		mg/L	0.0100	92.9	48-134
LCS (2031604-BS1)				Prepared & Analy	yzed: 16-Mar-1	2
Dichlorodifluoromethane	0.022	0.001	mg/L	0.0200	111	48.1-138
Chloromethane	0.021	0.001	mg/L	0.0200	104	68.4-125
Vinyl chloride	0.021	0.001	mg/L	0.0200	106	63.4-131
Bromomethane	0.020	0.001	mg/L	0.0200	102	62-142
Chloroethane	0.021	0.001	mg/L	0.0200	104	61-149
Trichlorofluoromethane	0.022	0.001	mg/L	0.0200	111	60.1-147
,1-Dichloroethene	0.023	0.001	mg/L	0.0200	113	68.7-131
Carbon disulfide	0.022	0.001	mg/L	0.0200	109	55.2-147
odomethane	0.021	0.001	mg/L	0.0200	106	68.4-130
Acrolein	0.098	0.005	mg/L	0.100	98.4	17.1-165
Methylene chloride	0.019	0.001	mg/L	0.0200	96.6	63.1-134
Acetone	0.029	0.005	mg/L	0.0200	146	37-148
rans-1,2-Dichloroethene	0.021	0.001	mg/L	0.0200	105	74.5-120
Methyl t-Butyl Ether	0.021	0.001	mg/L	0.0200	105	75.7-119
1,1-Dichloroethane	0.021	0.001	mg/L	0.0200	103	74.5-121
Acrylonitrile	0.021	0.001	mg/L	0.0200	104	58.1-136
Vinyl acetate	0.017	0.005	mg/L	0.0200	82.8	35.4-148
sis-1,2-Dichloroethene	0.021	0.001	mg/L	0.0200	105	80.4-117
2,2-Dichloropropane	0.021	0.001	mg/L	0.0200	105	49.7-152
Bromochloromethane	0.021	0.001	mg/L	0.0200	103	76.8-121

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO Fax To: (575) 396-1429

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

LCS (2031604-BS1)				Prepared & Analy	yzed: 16-Mar-1	2
Chloroform	0.020	0.001	mg/L	0.0200	101	76-115
Carbon tetrachloride	0.021	0.001	mg/L	0.0200	106	66.6-128
1,1,1-Trichloroethane	0.021	0.001	mg/L	0.0200	105	71.1-127
1,1-Dichloropropene	0.021	0.001	mg/L	0.0200	107	76-125
2-Butanone	0.021	0.005	mg/L	0.0200	103	60.6-129
Benzene	0.021	0.001	mg/L	0.0200	105	76.5-120
1,2-Dichloroethane	0.021	0.001	mg/L	0.0200	103	75.5-117
Trichloroethene	0.021	0.001	mg/L	0.0200	104	76.3-118
Dibromomethane	0.021	0.001	mg/L	0.0200	104	77.2-118
1,2-Dichloropropane	0.021	0.001	mg/L	0.0200	104	76.7-122
Bromodichloromethane	0.021	0.001	mg/L	0.0200	103	72.4-124
cis-1,3-Dichloropropene	0.021	0.001	mg/L	0.0200	106	66-121
Toluene	0.021	0.001	mg/L	0.0200	106	74.8-121
1-Methyl-2-pentanone	0.021	0.005	mg/L	0.0200	107	59.1-136
Tetrachloroethene	0.022	0.001	mg/L	0.0200	110	52.4-136
rans-1,3-Dichloropropene	0.021	0.001	mg/L	0.0200	107	62.2-125
,1,2-Trichloroethane	0.021	0.001	mg/L	0.0200	103	76.6-118
bibromochloromethane	0.021	0.001	mg/L	0.0200	106	69.2-121
,3-Dichloropropane	0.021	0.001	mg/L	0.0200	105	78.7-115
1,2-Dibromoethane	0.021	0.001	mg/L	0.0200	107	77.8-119
2-Hexanone	0.022	0.005	mg/L	0.0200	111	50.2-139
Chlorobenzene	0.021	0.001	mg/L	0.0200	106	76.5-115
Ethylbenzene	0.021	0.001	mg/L	0.0200	107	78.4-121
,1,1,2-Tetrachloroethane	0.021	0.001	mg/L	0.0200	104	75.9-120
n+p - Xylene	0.043	0.002	mg/L	0.0400	108	72.5-128
o-Xylene	0.022	0.001	mg/L	0.0200	109	71-126
Total Xylenes	0.065	0.003	mg/L	0.0600	108	73.6-126
Bromoform	0.021	0.001	mg/L	0.0200	105	57.9-126
Styrene	0.022	0.001	mg/L	0.0200	111	70.8-122
Isopropylbenzene	0.023	0.001	mg/L	0.0200	113	69.8-129
Bromobenzene	0.021	0.001	mg/L	0.0200	104	77.6-119
n-Propylbenzene	0.021	0.001	mg/L	0.0200	107	73.5-126

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.

Celey D. Keene, Lab Director/Quality Manager

%PEC



Analytical Results For:

Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

DDD

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2031604 - Volatiles										
Y GG (2021 (2) 4 PG4)				D 10		1636 10				

LCS (2031604-BS1)				Prepared & Anal	yzed: 16-Mar-12	2			
1,1,2,2-Tetrachloroethane	0.020	0.001	mg/L	0.0200	101	74.2-122			
2-Chlorotoluene	0.021	0.001	mg/L	0.0200	105	72.9-125			
1.2.3-trichloropropane	0.020	0.001	mg/L	0.0200	102	71.9-121			
1,3,5-Trimethylbenzene	0.022	0.001	mg/L	0.0200	108	68.6-132			
trans-1,4-Dichloro-2-butene	0.018	0.001	mg/L	0.0200	89.8	55.4-130			
4-Chlorotoluene	0.020	0.001	mg/L	0.0200	102	76.5-117			
tert-Butylbenzene	0.021	0.001	mg/L	0.0200	107	56.5-145			
1,2,4-Trimethylbenzene	0.021	0.001	mg/L	0.0200	107	69.7-129			
sec-Butylbenzene	0.022	0.001	mg/L	0.0200	109	69.6-129			
p-Isopropyltoluene	0.022	0.001	mg/L	0.0200	110	68.1-132			
1,3-Dichlorobenzene	0.020	0.001	mg/L	0.0200	102	76.2-116			
1,4 Dichlorobenzene	0.021	0.001	mg/L	0.0200	105	75.2-116			
n-Butylbenzene	0.022	0.001	mg/L	0.0200	109	65.3-131			
1,2-Dichlorobenzene	0.021	0.001	mg/L	0.0200	104	79.2-114			
1,2-Dibromo-3-chloropropane	0.020	0.001	mg/L	0.0200	98.8	62.6-118			
Hexachlorobutadiene	0.021	0.001	mg/L	0.0200	104	63-129			
1,2,4-Trichlorobenzene	0.021	0.001	mg/L	0.0200	104	77.2-118			
Naphthalene	0.021	0.001	mg/L	0.0200	107	68.4-126			
1,2,3-Trichlorobenzene	0.021	0.001	mg/L	0.0200	104	78-117			
Surrogate: Dibromofluoromethane	0.00998		mg/L	0.0100	99.8	70.2-143			
Surrogate: Toluene-d8	0.0103		mg/L	0.0100	103	73.8-118			
Surrogate: 4-Bromofluorobenzene	0.00993		mg/L	0.0100	99.3	48-134			
LCS Dup (2031604-BSD1)				Prepared & Anal	yzed: 16-Mar-12	2			
Dichlorodifluoromethane	0.020	0.001	mg/L	0.0200	102	48.1-138	9.34	14	
Chloromethane	0.018	0.001	mg/L	0.0200	88.6	68.4-125	15.6	10.5	
Vinyl chloride	0.019	0.001	mg/L	0.0200	93.3	63.4-131	12.8	12.3	
Bromomethane	0.018	0.001	mg/L	0.0200	90.4	62-142	11.7	12.3	
Chloroethane	0.018	0.001	mg/L	0.0200	89.8	61-149	14.2	9.87	
Trichlorofluoromethane	0.020	0.001	mg/L	0.0200	99.8	60.1-147	11.0	11	
1,1-Dichloroethene	0.020	0.001	mg/L	0.0200	102	68.7-131	10.2	18.3	
Carbon disulfide	0.019	0.001	mg/L	0.0200	96.8	55.2-147	11.7	15.4	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2031604 - Volatiles										
LCS Dup (2031604-BSD1)				Prepared &	Analyzed:	16-Mar-12				

LCS Dup (2031604-BSD1)				Prepared & Ana	alyzed: 16-Mar-12				
Iodomethane	0.019	0.001	mg/L	0.0200	94.4	68.4-130	11.9	12.5	
Acrolein	0.091	0.005	mg/L	0.100	91.1	17.1-165	7.69	72.4	
Methylene chloride	0.017	0.001	mg/L	0.0200	86.4	63.1-134	11.1	19.8	
Acetone	0.030	0.005	mg/L	0.0200	148	37-148	0.885	19.4	
trans-1,2-Dichloroethene	0.018	0.001	mg/L	0.0200	92.2	74.5-120	13.2	19.4	
Methyl t-Butyl Ether	0.019	0.001	mg/L	0.0200	96.0	75.7-119	9.39	13.9	
1,1-Dichloroethane	0.018	0.001	mg/L	0.0200	91.8	74.5-121	11.2	9.91	
Acrylonitrile	0.020	0.001	mg/L	0.0200	101	58.1-136	3.61	17.2	
Vinyl acetate	0.013	0.005	mg/L	0.0200	62.9	35.4-148	27.3	61.1	
cis-1,2-Dichloroethene	0.019	0.001	mg/L	0.0200	93.2	80.4-117	11.6	10.9	
2,2-Dichloropropane	0.019	0.001	mg/L	0.0200	94.6	49.7-152	10.5	52.3	
Bromochloromethane	0.019	0.001	mg/L	0.0200	93.6	76.8-121	9.23	8.76	
Chloroform	0.018	0.001	mg/L	0.0200	92.2	76-115	9.55	9.44	
Carbon tetrachloride	0.019	0.001	mg/L	0.0200	95.9	66.6-128	9.82	16	
1,1,1-Trichloroethane	0.019	0.001	mg/L	0.0200	94.1	71.1-127	10.8	12.2	
1,1-Dichloropropene	0.019	0.001	mg/L	0.0200	97.1	76-125	9.89	12.8	
2-Butanone	0.019	0.005	mg/L	0.0200	96.8	60.6-129	6.01	13.3	
Benzene	0.019	0.001	mg/L	0.0200	93.1	76.5-120	12.3	9.89	
1,2-Dichloroethane	0.019	0.001	mg/L	0.0200	94.2	75.5-117	8.54	9.07	
Trichloroethene	0.019	0.001	mg/L	0.0200	92.7	76.3-118	11.1	12	
Dibromomethane	0.019	0.001	mg/L	0.0200	94.6	77.2-118	9.18	9.82	
1,2-Dichloropropane	0.019	0.001	mg/L	0.0200	94.8	76.7-122	9.15	11	
Bromodichloromethane	0.019	0.001	mg/L	0.0200	92.8	72.4-124	10.3	10.5	
cis-1,3-Dichloropropene	0.019	0.001	mg/L	0.0200	96.6	66-121	9.66	12.8	
Toluene	0.019	0.001	mg/L	0.0200	95.6	74.8-121	10.7	12.3	
4-Methyl-2-pentanone	0.021	0.005	mg/L	0.0200	103	59.1-136	3.29	11.1	
Tetrachloroethene	0.021	0.001	mg/L	0.0200	105	52.4-136	5.02	43.6	
trans-1,3-Dichloropropene	0.020	0.001	mg/L	0.0200	98.1	62.2-125	8.26	13.1	
1,1,2-Trichloroethane	0.019	0.001	mg/L	0.0200	96.6	76.6-118	6.08	11.1	
Dibromochloromethane	0.019	0.001	mg/L	0.0200	96.6	69.2-121	9.24	11.1	
1,3-Dichloropropane	0.019	0.001	mg/L	0.0200	96.6	78.7-115	8.04	10.8	
1,2-Dibromoethane	0.020	0.001	mg/L	0.0200	98.0	77.8-119	9.06	11.3	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.

Celey D. Keene, Lab Director/Quality Manager

Limits

RPD



Analytical Results For:

Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported: 10-Jul-13 15:08

RPD

Limit

Notes

P.O. Box 301

Analyte

Lovington NM, 88260

Project Number: NONE GIVEN

Reporting

Limit

Result

Spike

Level

Source

Result

%REC

97.6

93.2

94.6

101

94.8

100

62.6-118

63-129

77.2-118

68.4-126

78-117

70.2-143

1.22

11 4

9.08

5.71

9.35

12.6

14 9

15.3

10.5

13.2

*=Accredited Analyte

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Units

LCS Dup (2031604-BSD1)				Prepared & Anal	yzed: 16-Mar-12	2		
2-Hexanone	0.021	0.005	mg/L	0.0200	106	50.2-139	4.29	13.9
Chlorobenzene	0.019	0.001	mg/L	0.0200	94.7	76.5-115	11.0	11.8
Ethylbenzene	0.019	0.001	mg/L	0.0200	96.6	78.4-121	9.88	13.2
1,1,1,2-Tetrachloroethane	0.019	0.001	mg/L	0.0200	94.5	75.9-120	9.28	9.73
m+p - Xylene	0.039	0.002	mg/L	0.0400	96.4	72.5-128	10.9	13.7
o-Xylene	0.020	0.001	mg/L	0.0200	98.2	71-126	10.6	11.7
Total Xylenes	0.058	0.003	mg/L	0.0600	97.0	73.6-126	10.8	13.1
Bromoform	0.019	0.001	mg/L	0.0200	96.4	57.9-126	8.78	10.5
Styrene	0.020	0.001	mg/L	0.0200	100	70.8-122	10.4	12.8
Isopropylbenzene	0.020	0.001	mg/L	0.0200	99.9	69.8-129	12.2	14.2
Bromobenzene	0.019	0.001	mg/L	0.0200	95.6	77.6-119	8.56	12.4
n-Propylbenzene	0.020	0.001	mg/L	0.0200	97.7	73.5-126	8.71	16.7
1,1,2,2-Tetrachloroethane	0.020	0.001	mg/L	0.0200	97.5	74.2-122	3.72	10.6
2-Chlorotoluene	0.019	0.001	mg/L	0.0200	97.1	72.9-125	7.68	14
1.2.3-trichloropropane	0.020	0.001	mg/L	0.0200	99.4	71.9-121	2.39	9.43
1,3,5-Trimethylbenzene	0.020	0.001	mg/L	0.0200	99.9	68.6-132	8.16	16.1
trans-1,4-Dichloro-2-butene	0.018	0.001	mg/L	0.0200	88.2	55.4-130	1.80	14.3
4-Chlorotoluene	0.019	0.001	mg/L	0.0200	92.8	76.5-117	9.54	15.5
tert-Butylbenzene	0.019	0.001	mg/L	0.0200	97.2	56.5-145	9.22	33.4
1,2,4-Trimethylbenzene	0.020	0.001	mg/L	0.0200	98.6	69.7-129	8.59	15.6
sec-Butylbenzene	0.020	0.001	mg/L	0.0200	99.4	69.6-129	8.90	18.7
p-Isopropyltoluene	0.020	0.001	mg/L	0.0200	100	68.1-132	9.19	17.8
1,3-Dichlorobenzene	0.019	0.001	mg/L	0.0200	94.5	76.2-116	8.17	14.4
1,4 Dichlorobenzene	0.019	0.001	mg/L	0.0200	97.2	75.2-116	7.34	14.4
n-Butylbenzene	0.020	0.001	mg/L	0.0200	99.4	65.3-131	9.26	18.5
1,2-Dichlorobenzene	0.019	0.001	mg/L	0.0200	95.7	79.2-114	7.98	13.1

Cardinal Laboratories

0.001

0.001

0.001

0.001

0.001

0.020

0.019

0.019

0.020

0.019

0.0100

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 the 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.

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

0.0200

0.0200

0.0200

0.0200

0.0200

0.0100

Celey D. Keine

1,2-Dibromo-3-chloropropane

Surrogate: Dibromofluoromethane

Hexachlorobutadiene

Naphthalene

1,2,4-Trichlorobenzene

1,2,3-Trichlorobenzene

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO Fax To: (575) 396-1429

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2031604 - Volatiles

LCS Dup (2031604-BSD1)			Prepared & Anal	yzed: 16-Mar-12	!
Surrogate: Toluene-d8	0.0101	mg/L	0.0100	101	73.8-118
Surrogate: 4-Bromofluorobenzene	0.0100	mg/L	0.0100	100	48-134

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2040408 - EPA 3510

Blank (2040408-BLK1)			Prepared: 22-Mar-12 Analyzed: 03-Apr-12
Pyridine	ND	0.005	mg/L
N-Nitrosodimethylamine	ND	0.005	mg/L
2-Picoline	ND	0.005	mg/L
Methyl methanesulfonate	ND	0.005	mg/L
Ethyl methanesulfonate	ND	0.005	mg/L
Pentachloroethane	ND	0.005	mg/L
Aniline	ND	0.005	mg/L
Phenol	ND	0.005	mg/L
2-Chlorophenol	ND	0.005	mg/L
bis(2-Chloroethyl)ether	ND	0.005	mg/L
1,4-Dichlorobenzene	ND	0.005	mg/L
1,3-Dichlorobenzene	ND	0.001	mg/L
Benzyl alcohol	ND	0.001	mg/L
1,2-Dichlorobenzene	ND	0.001	mg/L
bis(2-Chloroisopropyl)ether	ND	0.001	mg/L
Acetophenone	ND	0.001	mg/L
2-Methylphenol	ND	0.001	mg/L
4-Methylphenol	ND	0.001	mg/L
Hexachloroethane	ND	0.001	mg/L
N-Nitrosodi-n-propylamine	ND	0.001	mg/L
Nitrobenzene	ND	0.001	mg/L
N-Nitrosopiperidine	ND	0.001	mg/L
Isophorone	ND	0.001	mg/L
2-Nitrophenol	ND	0.001	mg/L
2,4-Dimethylphenol	ND	0.005	mg/L
bis(2-Chloroethoxy)methane	ND	0.001	mg/L
2,6-Dichlorophenol	ND	0.001	mg/L
1,2,4-Trichlorobenzene	ND	0.005	mg/L
Naphthalene	ND	0.001	mg/L
2,4-Dichlorophenol	ND	0.001	mg/L
4-Chloroaniline	ND	0.001	mg/L
Hexachloropropene	ND	0.001	mg/L

*=Accredited Analyte Cardinal Laboratories

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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2040408 - EPA 3510

Blank (2040408-BLK1)			Prepared: 22-Mar-12 Analyzed: 03-Apr-12
Hexachlorobutadiene	ND	0.001	mg/L
N-Nitroso-di-n-butylamine	ND	0.001	mg/L
4-Chloro-3-methylphenol	ND	0.001	mg/L
Safrole	ND	0.001	mg/L
2-Methylnaphthalene	ND	0.001	mg/L
1,2,4,5-Tetrachlorobenzene	ND	0.001	mg/L
Hexachlorocyclopentadiene	ND	0.001	mg/L
2,4,6-Trichlorophenol	ND	0.001	mg/L
2,4,5-Trichlorophenol	ND	0.001	mg/L
Isosafrole	ND	0.001	mg/L
2-Chloronaphthalene	ND	0.001	mg/L
2-Nitroaniline	ND	0.001	mg/L
Dimethylphthalate	ND	0.005	mg/L
Acenaphthylene	ND	0.001	mg/L
2,6-Dinitrotoluene	ND	0.001	mg/L
3-Nitroaniline	ND	0.001	mg/L
Acenaphthene	ND	0.001	mg/L
2,4-Dinitrophenol*	ND	0.001	mg/L
Dibenzofuran	ND	0.001	mg/L
4-Nitrophenol	ND	0.001	mg/L
Pentachlorobenzene	ND	0.001	mg/L
2,4-Dinitrotoluene	ND	0.001	mg/L
2-Naphthylamine	ND	0.001	mg/L
1-Naphthylamine	ND	0.001	mg/L
2,3,4,6-Tetrachlorophenol	ND	0.001	mg/L
Fluorene	ND	0.001	mg/L
Diethylphthalate	ND	0.001	mg/L
4-Chlorophenyl-phenyl ether	ND	0.001	mg/L
5-Nitro-o-toluidine	ND	0.001	mg/L
4-Nitroaniline	ND	0.001	mg/L
4,6-Dinitro-2-methylphenol	ND	0.001	mg/L
Diphenylamine	ND	0.001	mg/L

*=Accredited Analyte Cardinal Laboratories

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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Project Number: NONE GIVEN

10-Jul-13 15:08

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO Fax To: (575) 396-1429

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2040408 - EPA 3510

Blank (2040408-BLK1)			Prepared: 22-Mar-12 Analyzed: 03-Apr-12
Azobenzene	ND	0.001	mg/L
1,3,5-Trinitrobenzene	ND	0.001	mg/L
4-Bromophenyl-phenyl ether	ND	0.005	mg/L
Phenacetin	ND	0.001	mg/L
Diallate	ND	0.005	mg/L
Hexachlorobenzene	ND	0.005	mg/L
4-Aminobiphenyl	ND	0.001	mg/L
Pentachlorophenol	ND	0.001	mg/L
Pentachloronitrobenzene	ND	0.001	mg/L
Pronamide	ND	0.001	mg/L
Phenanthrene	ND	0.005	mg/L
Anthracene	ND	0.001	mg/L
Dinoseb	ND	0.005	mg/L
Carbazole	ND	0.001	mg/L
Di-n-butylphthalate	ND	0.010	mg/L
Isodrin	ND	0.001	mg/L
Fluoranthene	ND	0.001	mg/L
Benzidine	ND	0.005	mg/L
Pyrene	ND	0.001	mg/L
Dimethylaminoazobenzene	ND	0.001	mg/L
Chlorobenzilate	ND	0.001	mg/L
Butylbenzylphthalate	ND	0.005	mg/L
Benzo[a]anthracene	ND	0.001	mg/L
3,3'-Dichlorobenzidine	ND	0.005	mg/L
Chrysene	ND	0.001	mg/L
bis(2-Ethylhexyl)phthalate	ND	0.010	mg/L
Di-n-octylphthalate	ND	0.005	mg/L
Benzo[b]flouranthene	ND	0.001	mg/L
Benzo[k]flouranthene	ND	0.001	mg/L
Benzo[a]pyrene	ND	0.0002	mg/L
3-Methylcholanthrene	ND	0.001	mg/L
Indeno[1,2,3-cd]pyrene	ND	0.001	mg/L

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.

Celey D. Keene, Lab Director/Quality Manager

Limits

70-130

70-130

70-130

82.6

87.9

RPD



Analytical Results For:

Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported:

P.O. Box 301

Analyte

Project Number: NONE GIVEN

Reporting

Limit

Result

0.008

0.009

0.008

Spike

Level

Source

Result

%REC

10-Jul-13 15:08

RPD

Limit

Notes

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Units

Blank (2040408-BLK1)				Prepared: 22-Mar	r-12 Analyzed: ()3-Apr-12	
Dibenz[a,h]anthracene	ND	0.001	mg/L				
Benzo[g,h,i]perylene	ND	0.001	mg/L				
urrogate: 2-Fluorophenol	0.0180		mg/L	0.0500	36.1	21-100	
Jurrogate: Phenol-d5	0.0100		mg/L	0.0500	20.0	10-94	
Surrogate: Nitrobenzene-d5	0.0308		mg/L	0.0500	61.5	35-114	
urrogate: 2-Fluorobiphenyl	0.0398		mg/L	0.0500	79.5	43-116	
urrogate: 2,4,6-Tribromophenol	0.0425		mg/L	0.0500	84.9	10-123	
urrogate: Terphenyl-dl4	0.0396		mg/L	0.0500	79.2	33-141	
LCS (2040408-BS1)				Prepared: 22-Mar	r-12 Analyzed: ()2-Apr-12	
yridine	0.009	0.005	mg/L	0.0100	93.7	70-130	
I-Nitrosodimethylamine	0.011	0.005	mg/L	0.0100	112	70-130	
-Picoline	0.012	0.005	mg/L	0.0100	121	70-130	
lethyl methanesulfonate	0.010	0.005	mg/L	0.0100	102	70-130	
thyl methanesulfonate	0.012	0.005	mg/L	0.0100	120	70-130	
entachloroethane	0.012	0.005	mg/L	0.0100	125	70-130	
aniline	0.011	0.005	mg/L	0.0100	106	70-130	
henol	0.011	0.005	mg/L	0.0100	114	70-130	
-Chlorophenol	0.012	0.005	mg/L	0.0100	121	70-130	
is(2-Chloroethyl)ether	0.013	0.005	mg/L	0.0100	135	70-130	
,4-Dichlorobenzene	0.012	0.005	mg/L	0.0100	123	70-130	
,3-Dichlorobenzene	0.010	0.001	mg/L	0.0100	98.8	70-130	
Benzyl alcohol	0.009	0.001	mg/L	0.0100	86.3	70-130	
,2-Dichlorobenzene	0.010	0.001	mg/L	0.0100	98.2	70-130	
is(2-Chloroisopropyl)ether	0.010	0.001	mg/L	0.0100	96.3	70-130	
cetophenone	0.009	0.001	mg/L	0.0100	91.2	70-130	
-Methylphenol	0.009	0.001	mg/L	0.0100	90.5	70-130	
-Methylphenol	0.011	0.001	mg/L	0.0100	110	70-130	
Iexachloroethane	0.009	0.001	mg/L	0.0100	92.0	70-130	

Cardinal Laboratories *=Accredited Analyte

mg/L

mg/L

mg/L

0.0100

0.0100

0.0100

0.001

0.001

0.001

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 the 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.

Celey D. Keine

N-Nitrosodi-n-propylamine

Nitrobenzene

N-Nitrosopiperidine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported: 10-Jul-13 15:08

P.O. Box 301

Project Number: NONE GIVEN

1

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO Fax To: (575) 396-1429

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

LCS (2040408-BS1)				Prepared: 22-Ma	r-12 Analyzed: (02-Apr-12	
Isophorone	0.009	0.001	mg/L	0.0100	91.3	70-130	
2-Nitrophenol	0.009	0.001	mg/L	0.0100	87.8	70-130	
2,4-Dimethylphenol	0.009	0.005	mg/L	0.0100	86.5	70-130	
bis(2-Chloroethoxy)methane	0.010	0.001	mg/L	0.0100	95.6	70-130	
2,6-Dichlorophenol	0.009	0.001	mg/L	0.0100	91.2	70-130	
1,2,4-Trichlorobenzene	0.010	0.005	mg/L	0.0100	96.4	70-130	
Naphthalene	0.010	0.001	mg/L	0.0100	95.7	70-130	
2,4-Dichlorophenol	0.009	0.001	mg/L	0.0100	93.3	70-130	
4-Chloroaniline	0.009	0.001	mg/L	0.0100	87.6	70-130	
Hexachloropropene	0.004	0.001	mg/L	0.0100	36.3	60-140	BS2
Hexachlorobutadiene	0.010	0.001	mg/L	0.0100	99.1	70-130	
N-Nitroso-di-n-butylamine	0.009	0.001	mg/L	0.0100	88.8	70-130	
4-Chloro-3-methylphenol	0.008	0.001	mg/L	0.0100	84.4	70-130	
Safrole	0.010	0.001	mg/L	0.0100	97.7	70-130	
2-Methylnaphthalene	0.009	0.001	mg/L	0.0100	94.9	70-130	
1,2,4,5-Tetrachlorobenzene	0.010	0.001	mg/L	0.0100	96.5	70-130	
Hexachlorocyclopentadiene	0.006	0.001	mg/L	0.0100	60.1	60-140	
2,4,6-Trichlorophenol	0.008	0.001	mg/L	0.0100	82.8	70-130	
2,4,5-Trichlorophenol	0.008	0.001	mg/L	0.0100	81.4	70-130	
Isosafrole	0.009	0.001	mg/L	0.0100	93.4	70-130	
2-Chloronaphthalene	0.009	0.001	mg/L	0.0100	93.6	70-130	
2-Nitroaniline	0.008	0.001	mg/L	0.0100	83.9	70-130	
Dimethylphthalate	0.009	0.001	mg/L	0.0100	93.1	70-130	
Acenaphthylene	0.009	0.001	mg/L	0.0100	90.7	70-130	
2,6-Dinitrotoluene	0.009	0.001	mg/L	0.0100	93.2	70-130	
3-Nitroaniline	0.007	0.001	mg/L	0.0100	69.1	70-130	BS2
Acenaphthene	0.009	0.001	mg/L	0.0100	93.5	70-130	
2,4-Dinitrophenol*	0.005	0.001	mg/L	0.0100	49.5	60-140	BS2
Dibenzofuran	0.009	0.001	mg/L	0.0100	89.6	70-130	
4-Nitrophenol	0.005	0.001	mg/L	0.0100	51.7	60-140	BS2
Pentachlorobenzene	0.010	0.001	mg/L	0.0100	97.1	70-130	
2,4-Dinitrotoluene	0.009	0.001	mg/L	0.0100	93.2	70-130	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported: 10-Jul-13 15:08

P.O. Box 301

Lovington NM, 88260

Project Number: NONE GIVEN

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

LCS (2040408-BS1)				Prepared: 22-Mar	r-12 Analyzed: (02-Apr-12	
2-Naphthylamine	0.007	0.001	mg/L	0.0100	72.0	70-130	
1-Naphthylamine	0.006	0.001	mg/L	0.0100	59.1	60-140	BS2
2,3,4,6-Tetrachlorophenol	0.008	0.001	mg/L	0.0100	76.6	70-130	
Fluorene	0.009	0.001	mg/L	0.0100	89.8	70-130	
Diethylphthalate	0.009	0.001	mg/L	0.0100	89.4	70-130	
4-Chlorophenyl-phenyl ether	0.009	0.001	mg/L	0.0100	89.7	70-130	
5-Nitro-o-toluidine	0.008	0.001	mg/L	0.0100	82.0	70-130	
4-Nitroaniline	0.007	0.001	mg/L	0.0100	73.2	70-130	
4,6-Dinitro-2-methylphenol	0.006	0.001	mg/L	0.0100	65.0	70-130	BS2
Diphenylamine	0.009	0.001	mg/L	0.0100	87.1	70-130	
Azobenzene	0.008	0.001	mg/L	0.0100	79.3	70-130	
1,3,5-Trinitrobenzene	0.006	0.001	mg/L	0.0100	62.2	60-140	
4-Bromophenyl-phenyl ether	0.009	0.005	mg/L	0.0100	92.8	70-130	
Phenacetin	0.007	0.001	mg/L	0.0100	72.6	70-130	
Diallate	0.009	0.005	mg/L	0.0100	89.1	70-130	
Hexachlorobenzene	0.009	0.005	mg/L	0.0100	93.8	70-130	
4-Aminobiphenyl	0.007	0.001	mg/L	0.0100	65.7	70-130	BS2
Pentachlorophenol	0.009	0.001	mg/L	0.0100	93.9	70-130	
Pentachloronitrobenzene	0.009	0.001	mg/L	0.0100	85.9	70-130	
Pronamide	0.008	0.001	mg/L	0.0100	84.5	70-130	
Phenanthrene	0.009	0.001	mg/L	0.0100	94.2	70-130	
Anthracene	0.009	0.001	mg/L	0.0100	94.4	70-130	
Dinoseb	0.006	0.005	mg/L	0.0100	60.2	60-140	
Carbazole	0.009	0.001	mg/L	0.0100	85.1	70-130	
Di-n-butylphthalate	0.009	0.001	mg/L	0.0100	89.5	70-130	
Isodrin	0.009	0.001	mg/L	0.0100	87.0	70-130	
Fluoranthene	0.009	0.001	mg/L	0.0100	85.1	70-130	
Benzidine	0.006	0.005	mg/L	0.0100	56.3	60-140	BS2
Pyrene	0.008	0.001	mg/L	0.0100	83.7	70-130	
Dimethylaminoazobenzene	0.008	0.001	mg/L	0.0100	78.3	70-130	
Chlorobenzilate	0.008	0.001	mg/L	0.0100	76.3	70-130	
Butylbenzylphthalate	0.008	0.001	mg/L	0.0100	84.2	70-130	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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 Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

P.O. Box 301

Project Number: NONE GIVEN

Reporting

Spike

Source

Reported: 10-Jul-13 15:08

RPD

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		reporting		Spike	Source		/orche		KI D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2040408 - EPA 3510										
LCS (2040408-BS1)				Prepared: 2	22-Mar-12 A	Analyzed: 0	2-Apr-12			
Benzo[a]anthracene	0.008	0.001	mg/L	0.0100		84.4	70-130			
3,3'-Dichlorobenzidine	0.010	0.005	mg/L	0.0100		101	70-130			
Chrysene	0.009	0.001	mg/L	0.0100		91.0	70-130			
pis(2-Ethylhexyl)phthalate	0.010	0.001	mg/L	0.0100		97.0	70-130			
Di-n-octylphthalate	0.011	0.005	mg/L	0.0100		108	70-130			
Benzo[b]flouranthene	0.010	0.001	mg/L	0.0100		96.4	70-130			
Benzo[k]flouranthene	0.012	0.001	mg/L	0.0100		118	70-130			
Benzo[a]pyrene	0.011	0.0002	mg/L	0.0100		110	70-130			
3-Methylcholanthrene	0.010	0.001	mg/L	0.0100		100	70-130			
ndeno[1,2,3-cd]pyrene	0.011	0.001	mg/L	0.0100		107	70-130			
Dibenz[a,h]anthracene	0.011	0.001	mg/L	0.0100		107	70-130			
Benzo[g,h,i]perylene	0.011	0.001	mg/L	0.0100		105	70-130			
LCS Dup (2040408-BSD1)				Prepared: 2	22-Mar-12 A	Analyzed: 0	2-Apr-12			
Pyridine	0.009	0.005	mg/L	0.0100		89.3	70-130	4.81	20	
N-Nitrosodimethylamine	0.011	0.005	mg/L	0.0100		108	70-130	3.54	20	
2-Picoline	0.011	0.005	mg/L	0.0100		115	70-130	5.26	20	
Methyl methanesulfonate	0.010	0.005	mg/L	0.0100		98.4	70-130	3.89	20	
Ethyl methanesulfonate	0.012	0.005	mg/L	0.0100		117	70-130	3.12	20	
Pentachloroethane	0.012	0.005	mg/L	0.0100		123	70-130	1.54	20	
Aniline	0.011	0.005	mg/L	0.0100		111	70-130	4.51	20	
Phenol	0.012	0.005	mg/L	0.0100		123	70-130	7.78	20	
2-Chlorophenol	0.012	0.005	mg/L	0.0100		117	70-130	3.11	20	
ois(2-Chloroethyl)ether	0.014	0.005	mg/L	0.0100		141	70-130	4.50	20	I
,4-Dichlorobenzene	0.012	0.005	mg/L	0.0100		122	70-130	0.734	20	
,3-Dichlorobenzene	0.010	0.001	mg/L	0.0100		99.7	70-130	0.907	20	
Benzyl alcohol	0.008	0.001	mg/L	0.0100		84.2	70-130	2.46	20	
,2-Dichlorobenzene	0.010	0.001	mg/L	0.0100		99.5	70-130	1.32	20	
ois(2-Chloroisopropyl)ether	0.010	0.001	mg/L	0.0100		95.0	70-130	1.36	20	
Acetophenone	0.009	0.001	mg/L	0.0100		88.4	70-130	3.12	20	
2-Methylphenol	0.009	0.001	mg/L	0.0100		90.8	70-130	0.331	20	
1-Methylphenol	0.011	0.001	mg/L	0.0100		108	70-130	2.11	20	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.

Limits

RPD



Analytical Results For:

Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Source

Result

%REC

Reported:

P.O. Box 301

Analyte

Project Number: NONE GIVEN

Reporting

Limit

Result

0.006

Spike

Level

10-Jul-13 15:08

RPD

Limit

Notes

Lovington NM, 88260

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Units

										110100
Batch 2040408 - EPA 3510										
LCS Dup (2040408-BSD1)				Prepared: 2	22-Mar-12 An	alyzed: ()2-Apr-12			
Iexachloroethane	0.009	0.001	mg/L	0.0100		90.2	70-130	1.98	20	
N-Nitrosodi-n-propylamine	0.008	0.001	mg/L	0.0100		80.3	70-130	2.82	20	
Vitrobenzene	0.009	0.001	mg/L	0.0100		87.6	70-130	0.342	20	
-Nitrosopiperidine	0.008	0.001	mg/L	0.0100		79.2	70-130	0.504	20	
ophorone	0.009	0.001	mg/L	0.0100		90.0	70-130	1.43	20	
Nitrophenol	0.009	0.001	mg/L	0.0100		86.6	70-130	1.38	20	
4-Dimethylphenol	0.009	0.005	mg/L	0.0100		86.2	70-130	0.347	20	
s(2-Chloroethoxy)methane	0.009	0.001	mg/L	0.0100		93.4	70-130	2.33	20	
6-Dichlorophenol	0.009	0.001	mg/L	0.0100		92.6	70-130	1.52	20	
2,4-Trichlorobenzene	0.010	0.005	mg/L	0.0100		98.4	70-130	2.05	20	
aphthalene	0.010	0.001	mg/L	0.0100		95.7	70-130	0.00	20	
4-Dichlorophenol	0.009	0.001	mg/L	0.0100		92.6	70-130	0.753	20	
Chloroaniline	0.009	0.001	mg/L	0.0100		87.6	70-130	0.00	20	
exachloropropene	0.006	0.001	mg/L	0.0100		60.2	60-140	49.5	20	
exachlorobutadiene	0.010	0.001	mg/L	0.0100		102	70-130	2.59	20	
-Nitroso-di-n-butylamine	0.009	0.001	mg/L	0.0100		88.9	70-130	0.113	20	
Chloro-3-methylphenol	0.009	0.001	mg/L	0.0100		88.3	70-130	4.52	20	
afrole	0.010	0.001	mg/L	0.0100		96.7	70-130	1.03	20	
Methylnaphthalene	0.010	0.001	mg/L	0.0100		95.3	70-130	0.421	20	
2,4,5-Tetrachlorobenzene	0.010	0.001	mg/L	0.0100		97.0	70-130	0.517	20	
exachlorocyclopentadiene	0.007	0.001	mg/L	0.0100		69.1	60-140	13.9	20	
4,6-Trichlorophenol	0.008	0.001	mg/L	0.0100		83.3	70-130	0.602	20	
4,5-Trichlorophenol	0.009	0.001	mg/L	0.0100		87.1	70-130	6.77	20	
osafrole	0.009	0.001	mg/L	0.0100		92.1	70-130	1.40	20	
Chloronaphthalene	0.009	0.001	mg/L	0.0100		94.2	70-130	0.639	20	
Nitroaniline	0.009	0.001	mg/L	0.0100		89.4	70-130	6.35	20	
imethylphthalate	0.010	0.001	mg/L	0.0100		95.7	70-130	2.75	20	
cenaphthylene	0.009	0.001	mg/L	0.0100		93.4	70-130	2.93	20	
6-Dinitrotoluene	0.010	0.001	mg/L	0.0100		95.4	70-130	2.33	20	
Nitroaniline	0.007	0.001	mg/L	0.0100		72.2	70-130	4.39	20	
cenaphthene	0.009	0.001	mg/L	0.0100		94.5	70-130	1.06	20	

Cardinal Laboratories *=Accredited Analyte

 $mg\!/\!L$

0.0100

55.5

60-140

11.4

20

0.001

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 the 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.

Celey D. Keine

2,4-Dinitrophenol*

Celey D. Keene, Lab Director/Quality Manager

BS2



Analytical Results For:

Basin Environmental Service

Lovington NM, 88260

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported: 10-Jul-13 15:08

RPD

P.O. Box 301

Project Number: NONE GIVEN

Reporting

Spike

Source

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2040408 - EPA 3510										
LCS Dup (2040408-BSD1)				Prepared: 2	2-Mar-12 A	analyzed: 0	2-Apr-12			
Dibenzofuran	0.009	0.001	mg/L	0.0100		93.4	70-130	4.15	20	
4-Nitrophenol	0.005	0.001	mg/L	0.0100		48.9	60-140	5.57	20	BS
Pentachlorobenzene	0.010	0.001	mg/L	0.0100		101	70-130	3.54	20	
2,4-Dinitrotoluene	0.009	0.001	mg/L	0.0100		93.4	70-130	0.214	20	
2-Naphthylamine	0.008	0.001	mg/L	0.0100		75.2	70-130	4.35	20	
1-Naphthylamine	0.006	0.001	mg/L	0.0100		61.0	60-140	3.16	20	
2,3,4,6-Tetrachlorophenol	0.008	0.001	mg/L	0.0100		83.3	70-130	8.38	20	
Fluorene	0.009	0.001	mg/L	0.0100		92.9	70-130	3.39	20	
Diethylphthalate	0.009	0.001	mg/L	0.0100		93.0	70-130	3.95	20	
4-Chlorophenyl-phenyl ether	0.010	0.001	mg/L	0.0100		96.1	70-130	6.89	20	
5-Nitro-o-toluidine	0.009	0.001	mg/L	0.0100		89.3	70-130	8.52	20	
4-Nitroaniline	0.008	0.001	mg/L	0.0100		81.9	70-130	11.2	20	
4,6-Dinitro-2-methylphenol	0.007	0.001	mg/L	0.0100		74.7	70-130	13.9	20	
Diphenylamine	0.009	0.001	mg/L	0.0100		91.4	70-130	4.82	20	
Azobenzene	0.008	0.001	mg/L	0.0100		80.6	70-130	1.63	20	
1,3,5-Trinitrobenzene	0.007	0.001	mg/L	0.0100		68.7	60-140	9.93	20	
4-Bromophenyl-phenyl ether	0.010	0.005	mg/L	0.0100		97.5	70-130	4.94	20	
Phenacetin	0.008	0.001	mg/L	0.0100		81.5	70-130	11.6	20	
Diallate	0.009	0.005	mg/L	0.0100		89.1	70-130	0.00	20	
Hexachlorobenzene	0.010	0.005	mg/L	0.0100		96.5	70-130	2.84	20	
4-Aminobiphenyl	0.007	0.001	mg/L	0.0100		72.0	70-130	9.15	20	
Pentachlorophenol	0.010	0.001	mg/L	0.0100		98.8	70-130	5.09	20	
Pentachloronitrobenzene	0.009	0.001	mg/L	0.0100		93.1	70-130	8.04	20	
Pronamide	0.009	0.001	mg/L	0.0100		93.7	70-130	10.3	20	
Phenanthrene	0.009	0.001	mg/L	0.0100		94.3	70-130	0.106	20	
Anthracene	0.009	0.001	mg/L	0.0100		93.7	70-130	0.744	20	
Dinoseb	0.007	0.005	mg/L	0.0100		68.8	60-140	13.3	20	
Carbazole	0.009	0.001	mg/L	0.0100		89.9	70-130	5.49	20	
Di-n-butylphthalate	0.009	0.001	mg/L	0.0100		93.4	70-130	4.26	20	
Isodrin	0.009	0.001	mg/L	0.0100		90.4	70-130	3.83	20	
Fluoranthene	0.009	0.001	mg/L	0.0100		91.5	70-130	7.25	20	
Benzidine	0.006	0.005	mg/L	0.0100		57.4	60-140	1.93	20	BS

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.



Basin Environmental Service

Project: BASS 3 FEDERAL WELL #4 SPILL S

Reported: 10-Jul-13 15:08

P.O. Box 301

Lovington NM, 88260

Project Number: NONE GIVEN

Project Manager: BEN J. ARGUIJO

Fax To: (575) 396-1429

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch	20404	408 -	EPA.	3510
-------	-------	-------	------	------

LCS Dup (2040408-BSD1)				Prepared: 22-Ma	r-12 Analyzed: 0	2-Apr-12		
Pyrene	0.009	0.001	mg/L	0.0100	91.5	70-130	8.90	20
Dimethylaminoazobenzene	0.009	0.001	mg/L	0.0100	87.5	70-130	11.1	20
Chlorobenzilate	0.008	0.001	mg/L	0.0100	84.0	70-130	9.61	20
Butylbenzylphthalate	0.009	0.001	mg/L	0.0100	94.6	70-130	11.6	20
Benzo[a]anthracene	0.010	0.001	mg/L	0.0100	99.7	70-130	16.6	20
3,3'-Dichlorobenzidine	0.010	0.005	mg/L	0.0100	101	70-130	0.0991	20
Chrysene	0.009	0.001	mg/L	0.0100	91.1	70-130	0.110	20
bis(2-Ethylhexyl)phthalate	0.010	0.001	mg/L	0.0100	98.7	70-130	1.74	20
Di-n-octylphthalate	0.011	0.005	mg/L	0.0100	113	70-130	4.43	20
Benzo[b]flouranthene	0.011	0.001	mg/L	0.0100	106	70-130	9.86	20
Benzo[k]flouranthene	0.012	0.001	mg/L	0.0100	117	70-130	1.02	20
Benzo[a]pyrene	0.011	0.0002	mg/L	0.0100	113	70-130	3.05	20
3-Methylcholanthrene	0.010	0.001	mg/L	0.0100	99.5	70-130	0.601	20
Indeno[1,2,3-cd]pyrene	0.010	0.001	mg/L	0.0100	97.3	70-130	9.59	20
Dibenz[a,h]anthracene	0.010	0.001	mg/L	0.0100	98.0	70-130	8.69	20
Benzo[g,h,i]perylene	0.009	0.001	mg/L	0.0100	91.8	70-130	13.6	20

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.



S-04

Notes and Definitions

3-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GAL	Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(5/5) 393-2326 FAX (5/5) 393-24/	9		CONTRACTOR OF THE PROPERTY OF THE					
Company Name	Basin Environmental	S (0000000 Small S	BILL TO		e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de		ANALYSIS	REQUEST	
Project Manage	or: Ben J. Arguyo		P.O. #:		3		3		
Address: PO	State: N/M Fax 2378 Fax #: 575 Project Owne Box 3 felex 54 Spill Site In: Edy County, NM Miguel Rumires	ter to personal and a second of the	Company:		attached	el ,	NMW ac (sec atherbal		
City: OVINY	State: NM	Zip: 88260	Attn:	W. W. Co., Sp. 18.	ta	3	2 t		
Phone #: 575	-396 2378 Fax#: 575	- 396-1429	Address:	The state of the s		(See attacked) Metals (See attacked	2		
Project #:	Project Owne	*	City:		(See Ed)	3 3	3		
Project Name:	3045 3 Feder J4 Spill Site	``B''	State: Zip:		7	ie ac	3		
Project Locatio	n: Eddy County, NM		Phone #:		isty (see attached)	attachec ils Ciee at	8		
Sampler Name:	Miguel Rumirez		Fax #:		Genisty See atta	2 2	3		
FOR LAB USE ONLY		PRESERV. SAMPL	ING	147	(See	3			
		A S S			Hers See	5 8	3		
		(C)(/ATE				\-	5		
Lab I.D.	Sample I.D.	NDW NDW	ASE OOL		5-6/2	C.	12		
		CGNOUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE ICE / COOL OTHER:	20.2000	General So &\$	VOC	Metals		
<u> </u>	Asia			TIME	2 2	7 2			
	MW-2	G 7 X	XX 3.15.12	11.45	1 1	1 1	1		
				and the second s					
			2 November 19 10 10 November 19 10 10 November 19 10 10 November 19 November 19 10 November 19 November 19 10 November 19 10 November 19 10 November 19 10 N		Constitution (Control of Section 1997)	A. T. A. S. A. S. A. S. A. S. A. S. A. S. A. S. A. S. A. S. A. S. A. S. A. S. A. S. A. S. A. S. A. S. A. S. A.			
-	1/6								
			**		78.00 mm				
				1	MARKET BOOKS AND ADMINISTRATION				
	and Damages. Cardinal's liability and client's exclusive remedy for a ing those for negligence and any other cause whatsoever shall be						ACTION CONTRACTOR OF THE PROPERTY OF THE PROPE		ne voor een een kombonikie een hoosine einen een een een een een een een ee
	Cardinal be liable for incidental or consequental damages, including sing out of or related to the performance of services hereunder by C								
Relinquished B	y: Date:	Received By:		Phone Res			Add'l Phone Add'l Fax #:	#:	AND THE PARTY OF T
Many	As in some:	*		REMARKS		5 140	Mudirax #.		The second secon
Relinguished B	y: Date:	Received By:	TO STANKE THE PARTY OF THE PART						
TOTAL DESCRIPTION OF THE PROPERTY OF THE PROPE	Time:								
Delivered Rv	: (Circle One)	Sample Condi	tion CHECKED BY:						
	- Bus - Other:	(Initials)	E LUI CAMBRACA						



May 30, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 05/23/12 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 05/23/2012 Sampling Date: 05/21/2012 Reported: 05/30/2012 Sampling Type: Water

BASS 3 FEDERAL WELL #4 SPILL SITE 'B Project Name: Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: MW-1 (H201165-01)

BTEX 8021B	mg/	'L	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	05/30/2012	ND	0.044	88.9 0.0500		5.30	
Toluene*	< 0.001	0.001	05/30/2012	ND	0.047	93.1	0.0500	4.13	
Ethylbenzene*	< 0.001	0.001	05/30/2012	ND	0.047	93.4	0.0500	4.78	
Total Xylenes*	<0.003	0.003	05/30/2012	ND	0.141	93.7	0.150	4.32	
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 89.5-12	6						
Chloride, SM4500CI-B	mg/	'L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	20.0	4.00	05/24/2012	ND	100	100	100	0.00	
TPH 8015M	mg/	′L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	05/24/2012	ND	50.2	100	50.0	3.45	
DRO >C10-C28	<1.00	1.00	05/24/2012	ND	50.7	101	50.0	4.26	
EXT DRO >C28-C35	<1.00	1.00	05/24/2012	ND	ND		0.00		
Surrogate: 1-Chlorooctane	96.8 % 48.7-164		4						
Surrogata: 1 Chlorocatadacana	1120	0/. 518 16	5						

112 % Surrogate: 1-Chlorooctadecane 54.8-165

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	npany Name: Basin Environmental Service Technologies, LLC					LLC		BILL TO									MANAGE AND AND AND AND AND AND AND AND AND AND	ANA	LYSI	S RE	QUE	ST			
Project Manage	r: Ben J. Arguijo							F	P.O.	#:							Make and Mark	-			T				
Address: P.O.								C	Com	pan	y: I	ворсо,	LP												
City: Lovingto	on	State: NM	Zip	: 88	260			1	Attn	: 7	rony	Savo	ie												
Phone #: (575))396-2378	Fax #: (575) 39	96-3	L429	1			1	Addı	ress	: 52	2 W. I	Mern	nod											
Project #:		Project Owner	r: BC	PCO	, LP			c	City:	Ca	rls	bad													
Project Name:	Bass 3 Federal Wel	11 #4 Spill	Site	е "В	ş 11			S	State	e: NI	VI.	Z ip: 8	822	0											
Project Location	roject Location: Eddy Co, , NM							F	2hor	ne#	: (43	32)556	-87	30											
Sampler Name:	- in the second						F	Fax i	#:				J. 1007	ς l											
FOR LAB USE ONLY									Р	RES	ERV.	SAN	/IPLII	NG	13					2					
Lab I.D.	Tab I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Soil Soil Soil Soil Soil Soil Soil Soil									XACID/BASE:		ĐΑΊ	-	TIME	Chlorici	HUL	RIVX								
550-	MW-1		ĺ	4	Λ	_	1	\vdash	\perp	XX	4	9.21.	12	1020	1	7	4	1_	-		ļ	-			
			<u> </u>	\sqcup	_	_		\vdash	+	1	-	<u> </u>						-		-		ļ			
			-	Н	\perp	-	H	-	-	_	-	ļ						-	_			-			
			+-'	\vdash	+	-	-	+	-		-				ļ			-	-	-	-				-
			-	Н	+		+-	+						-		-		-							
			+	H		+	-	+	+	+	+	 						-	-	+-	-				
			-		+	+		+	-		-	-							+-	-	+				
						_	+	\vdash	1	+		ļ			Ì			_		+	+-				
				H	\top	-		\sqcap	\top	\top	+							T	\top	+	1	1			
analyses. All claims includi service. In no event shall C affiliates or successors arisi	ond Damages. Cardinal's liability and clien ing those for negligence and any other ca Cardinal be liable for incidental or consequ ing out of or related to the performance o	ause whatsoever shall be quental damages, including of services hereunder by C	deemed g withou Cardinal	ed waived ut limitati il, regard	d unless tion, bus dless of	s made i siness in whether	in writin nterrupti	ng and r	receive	d by Ca se, or la	ardinal oss of p	within 30 day	ys afte	r completion of the lient, its subsidia asons or otherwi	he applica aries, se.	la Character and the									
Relinguished B	Y M	Data: 23.12	Re	ceiv	ed B	sy:	·	1	0.1		a			Phone Re Fax Resul		☐ Ye		No No		I Phone					
Ulling,	My hund Time: 20 Wall					1	Je	10	de	91/		REMARK													
Rélinquished B										*															
The second		Time:	+				ia.																		
Delivered By	elivered By: (Circle One) Sample Con					Please email results					(@mq c	oasine	env.co	mc											
1	- Bus - Other:		DE	2	С	ool Ye	Inta	ct	(Initials)				& TAs	avoi	e@Ba	ssPet	.com								



August 28, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 08/21/12 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/21/2012 Sampling Date: 08/21/2012
Reported: 08/28/2012 Sampling Type: Water

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'B Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: MW - 1 (H201981-01)

BTEX 8021B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	08/28/2012	ND	0.047	94.5	0.0500	1.81	
Toluene*	< 0.001	0.001	08/28/2012	ND	0.049	97.6	0.0500	2.63	
Ethylbenzene*	< 0.001	0.001	08/28/2012	ND	0.051	101	0.0500	3.06	
Total Xylenes*	<0.003	0.003	08/28/2012	ND	0.164	109	0.150	2.68	
Surrogate: 4-Bromofluorobenzene (PID	97.3 9	% 89.5-126	í						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	20.0	4.00	08/22/2012	ND	100	100	100	7.69	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC					L	BILL TO ANALYSIS REQUEST																				
Project Manage	r: _{Ben J. Arguijo}								2.0	. #:								T								
Address: P.O.	Box 301								Con	npa	ny:	ВС	OPCO, LE)												
City: Lovingto	on State:	NM Z	ip:	882	260			_/	Attr	ղ։	Tor	ny	Savoie													
Phone #: (575)	396-2378 Fax #: (!	575)396	-14	29				_/	Add	ires	s:	522	W. Mer	mod					1							
Project#:	Project	Owner: I	30P	co,	LP				City: Carlsbad								Ì					İ				
Project Name:	Bass 3 Federal Well #4 S	pill Si	te	"B	"			!	Stat	te: 1	MM	7	Zip: 8822	0	1											
Project Location	n: Eddy Op., NM							F	ho	ne	#: (432	2)556-87	30												
Sampler Name:	TYMMIN Fame	-					TD 134		ax	-	0.55		041101													
Lab I.D. H20193]	Sample I.D.	awo, or avaion	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	i	TRIX				SER TOOD / 301	OTHER:	SAMPLI	TIME	Chlorioles	4318										
	MW-((7	5	X					1	X.		8.21.13	13:30	N	X										
	- AND THE STREET, STRE		1	_					1			_														
			-	1	-	-		_	4			4			_			-		-	1_					
.			+	╀		-		-	-	+	-	+						-	-	-	-	-	<u> </u>			
			+	+	+				+			+							-			-				
			†	\dagger		1			1			T							1			†				
				T					ı			1								1	1					
BI SACS NOTE: USB											E. E.												<u> </u>			
analyses. All claims includi	nd Damages. Cardinal's liability and client's exclusive m ng those for negligence and any other cause whatsoev ardinal be liable for incidental or consequental damage	er shall be deer	med w	aived	unless	made ir	n writin	g and r	eceiv	ed by	Cardin	nal wi	thin 30 days after	er completion of I	the applical	ole										
affiliates or successors aris	ng out of or related to the performance of services here	eunder by Cardi	inal, re	egardle	ess of w	hether								asons or otherwi	ise.		-	-	0 4 4	Phone				سسانها البابعة	The San San San San San San San San San San	
Relinquished B	Time:	Ed	4	a	ed By		~	A	l	M	0	6	4	Phone Re Fax Resu REMARK	It: S: #	Ye Ye		No No				pht	ال	ive	the	8
	Time:													TO	Pleas			O								
Delivered By	: (Circle One)					mple			n	,			ED BY:	1	& TAs					, Fuer	Jasiil	GIIV . CI	Jat			
Sampler - UPS	- Bus - Other:	IE	PC	_		ool Yes No	inta	Yes No			4	niti	als)		M. Company			A18570.00								



October 19, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 10/11/12 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 10/11/2012 Sampling Dat Reported: 10/19/2012 Sampling Typ

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'B

Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

Sampling Date: 10/11/2012

Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MW - 1 (H202479-01)

BTEX 8021B	mg/	'L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/17/2012	ND	0.053	106	0.0500	0.836	
Toluene*	< 0.001	0.001	10/17/2012	ND	0.046	92.1	0.0500	1.31	
Ethylbenzene*	<0.001	0.001	10/17/2012	ND	0.045	90.5	0.0500	1.72	
Total Xylenes*	0.003	0.003	10/17/2012	ND	0.130	86.9	0.150	1.45	
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 89.5-12	6						
Chloride, SM4500CI-B	mg/	'L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	20.0	4.00	10/15/2012	ND	104	104	100	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Address: P.O. Box 301 Ithy: Levington State: NM Zip: 88260 Attn: Tony Savoie Address: 522 M. Mermod Project Marie: Project Owner: BDPCO, LP City: Carl labad State: NM Zip: 88220 Phone #: (432) 536-8730 Fax #: (575) 396-2378 Fax #: (575) 396-1429 Address: 522 M. Mermod City: Carl labad State: NM Zip: 88220 Phone #: (432) 536-8730 Fax #: Carl Location: Address: S22 M. Mermod Troject Location: Address: S22 M. Mermod Address: S22 M. Mermod Address: S22 M. Mermod Troject Location: Address: S22 M. Mermod Address: S22	Company Name: Basin Environmental Service Technologies, LLC					7			1	BII	LL TO						AN	ALY	SIS	RE	QUES	ST			101.65			
State: NM Zip: 88260 Attn: Tony Savoie Address: 522 M. Mermod Project #: Project Owner: BOPCO, LP City: Carl abad Project Location: State: NM Zip: 88220 Phone #: (432) 556-8730 Fax #: Project Location: State: NM Zip: 88220 Phone #: (432) 556-8730 Fax #: Project Location: State: NM Zip: 88220 Phone #: (432) 556-8730 Fax #: Project Location: State: NM Zip: 88220 Phone #: (432) 556-8730 Fax #: PRESERV. SAMPLING MATRIX PRESERV. SAMPLING MATRIX DO STATE TIME DO STATE T	Project Manage	er: Ben J. Arguijo								Р.	0. #.	:																
Address: 522 W. Mermod Project S. Project Owner: 99800, LP City: Carlabad Project Name: As 3 Feb 50 / S. F. S. State: 18M Zip: 88220 Phone \$\frac{1}{2}\$: 18M Zip: 88220 Phone \$\frac{1}{2}\$: 18M Zip: 88220 Phone \$\frac{1}{2}\$: 18M Zip: 88220 Phone \$\frac{1}{2}\$: 18M Zip: 88220 Phone \$\frac{1}{2}\$: 18M Zip: 88220 Phone \$\frac{1}{2}\$: 18M Zip: 88220 Address: 52 W. Mermod Phone \$\frac{1}{2}\$: 18M Zip: 88220 Phone \$\frac{1}{2}\$: 18M Zip: 88220 Phone \$\frac{1}{2}\$: 18M Zip: 88220 Phone \$\frac{1}{2}\$: 18M Zip: 88220 DATE TIME Lab I.D. Sample I.D. \$\frac{1}{2}\$ \frac{1}{2}\$	Address: P.O	. Box 301								Co	mp	any	: B	OPCO, L	P													
Project Warner: 155 3 Feb. 1 Feb. 1 State: NN Zip: 88220 Phone #: (432)556-8730 Phone #: (432)566-8730 Phone #: (432)566-8730 Phone #: (432)566-8730 Phone #: (432)566-8730 Phone #: (432)566-8730 Phone #: (432)566-8730 Phone #: (4	City: Lovingt	on	State: NM	Ziţ) : 8	826	0			Αt	tn:	To	ny	Savoie		1												
State: NM Zip: 88220 Phone #: (432) 556-8730 Fax #: FOR EXABLEE OUT: Lab I, D. Sample I, D. Sample I, D. BY AND SAMPLING MATRIX PRESERV. SAMPLING MATRIX PRESERV. SAMPLING MATRIX PRESERV. SAMPLING DATE TIME AND SAMPLING DATE TIME DATE TIME RECOVER BY RECOVER BY: Time: RECOVER BY: Time: RECOVER BY: RECOVER BY: Fax #: Fax #: SAMPLING DATE TIME PRESERV. SAMPLING PATRIX PRESERV. SAMPLING PATRIX PRESERV. SAMPLING PATRIX PRESERV. SAMPLING DATE TIME PATRIX PRESERV. SAMPLING DATE TIME PATRIX PRESERV. SAMPLING PATRIX PRESERV.	Phone #: (575)396-2378	Fax #: (575) 3	96-	142	9				Αd	ldre	ss:	52:	2 W. Mer	mod					:								
Lab I.D. Sample I.D. By By By By By By By By By By By By By	Project #:					O,L	P			City: Carlsbad											-							
Lab I.D. Sample I.D. By By By By By By By By By By By By By	Project Name:	DUSS 3 Feel 4	50/1/ site "	13	11					Sta	ate:	NM		Zip: 8822	20													
Lab I.D. Sample I.D. By Married and the second and the state of the second and th	Project Locatio	n: Eddy 60.11	im	186			64. 4.04			Ph	one	#:	(43	2)556-8	730													
Lab I.D. Sample I.D. By Married and the second and the state of the second and th	Sampler Name:	Munihan		ř						Fa	x #:									ė								
LEASE NOTE: Likelity and Damages. Cardinal's likelity and cherc's enclasive remety for any claim and range whether based in contract or lost, that it is limited to the appearance of rendgingence and any other cause whitshope of share of share of share of the appearance interrupts on the claim of the capture of the appearance of the ap	FOR LAB USE ONLY					_	M.	ATRI	X		PR	ESE	RV.	SAMPL	ING	1	3		-	ļ								
LEASE NOTE: Likelity and Damages. Cardinal's likelity and cherc's enclasive remety for any claim and range whether based in contract or lost, that it is limited to the appearance of rendgingence and any other cause whitshope of share of share of share of the appearance interrupts on the claim of the capture of the appearance of the ap		,		OMF	(0	<u>بر</u>											¥ ¥											
LEASE NOTE: Listility and Damages. Carcinar's listelity and client's exclusive remedy for any claim analing whether based in contract or fort, shall be limited to the amount pack by the client for the programme of the applicable prince. In no event shall confirm to listelly and client's exclusive remedy for any claims including those for negligence and any other cause whatboover shall be deemed waired unless made in writing and received by Cardinaria within 30 days after completion of the applicable prince. In no event shall Candina be listelle for incidental or consequential diamages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries. Relinquished By: Date:	1.1.15		n	(O)	JER!	VATE	TER									1												
LEASE NOTE: Listility and Damages. Carcinar's listelity and client's exclusive remedy for any claim analing whether based in contract or fort, shall be limited to the amount pack by the client for the programme of the applicable prince. In no event shall confirm to listelly and client's exclusive remedy for any claims including those for negligence and any other cause whatboover shall be deemed waired unless made in writing and received by Cardinaria within 30 days after completion of the applicable prince. In no event shall Candina be listelle for incidental or consequential diamages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries. Relinquished By: Date:	Lab I.D.	j Sampie i	.D.	BOR	TAIN	NDV	EWA		SE SE	 or	SASE	100	 ~			10	1	Ü	-	1								
LEASE NOTE: Listility and Damages. Carcinar's listelity and client's exclusive remedy for any dam arising whether based in contract or fort, shall be limited to the amount paid by the client for the page. All clients inducing those for negligence and any other cause whatboower shall be deemed waived unless made in writing and received by Cardinal within 30 days after completen of the applicable prince. In no event shall Cardinal be listelle for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profiles mounted by client, its subsidiaries, interruptions of exercises hereinable by Cardinal agains of whether such claim is based upon any of the above stated reasons or chrewine. Relinquished By: Date:	Unannia	ł		RAI	SON	ROU	AST	۱ ا	-UDO	THE	SID/E	E/C	H H	D.4.T.F	711.5	1	100		İ									
LEASE NOTE: Lititally and Damages. Cardinal's liability and deferts exclusive remedy for any claim aring whether based in contract or fort, and the limited to the amount paid by the claims including those for negligence and any other cause whatabover shall be deemed valued unless made in writing and neceived by Cardinal within 30 days after completion of the applicable prince. In no event shall Cardinal be liable for incidental or consequential diamages, including without limitation, business interruptions, loss of use, or less of profits incurred by client, its subsidiaries. Relinquished By: Date: Received By: Time: Delivered By: (Circle One) Sample Condition CHECKED,BY: The application of the applicable investment of the profit of the pr	112024 19	MALLI		9.00		Q	3 6	5 0	S	Ö	Ă	2	Ö			-	1	+		╁	+	+	-	\rightarrow		\vdash		
Please email results to pm@basinenv.com Delivered By: (Circle One) Sample Condition CHECKED,BY: Sample Condition Checket, and output possible of the applicable of the appl	-	91140-1		19	1	1		+	+	H		4	-	12/12	20/3	\$	1		-									
Please email results to pm@basinenv.com Delivered By: (Circle One) Sample Condition CHECKED,BY: Sample Condition Checket, and output possible of the applicable of the appl	*** ***********************************	0.1.2 = 2.11		┢	╁	┢		+	+-				-						+		+	-						
Please email results to pm@basinenv.com Delivered By: (Circle One) Sample Condition CHECKED,BY: Time: Delivered By: (Circle One) Sample Condition CHECKED,BY: Time: Delivered By: (Circle One) Sample Condition CHECKED,BY: Time: Delivered By: (Circle One) Sample Condition CHECKED,BY: Time: Delivered By: (Circle One) Sample Condition CHECKED,BY: Time: Description of the applicable applicable or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries. Date: Date: Date: Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #: Remarks: Please email results to pm@basinenv.com				1	t	ı		+					-		:	_	\vdash				+	+	\neg					
Please email results to pm@basinenv.com Delivered By: (Circle One) Sample Condition CHECKED,BY: Sample Condition Checket, and output possible of the applicable of the appl	- 1000 1000 -		V. 10.11.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	T		İ		+									-	1		+	\top	\dashv					-	
Please email results to pm@basinenv.com Delivered By: (Circle One) Sample Condition CHECKED,BY: Sample Condition Checked, By: Sample Condition CHECKED,BY: Sample Condition Checked, By: Time: Please email results to pm@basinenv.com			202			İ											1			\top		\top						
Please email results to pm@basinenv.com Delivered By: (Circle One) Sample Condition CHECKED,BY: Sample Condition Checked, By: Sample Condition CHECKED,BY: Sample Condition Checked, By: Time: Please email results to pm@basinenv.com				1	Ť	T					İ			ľ								\neg						
Please email results to pm@basinenv.com Delivered By: (Circle One) Sample Condition CHECKED,BY: Sample Condition Checked, By: Sample Condition CHECKED,BY: Sample Condition Checked, By: Time: Please email results to pm@basinenv.com																												
Please email results to pm@basinenv.com Delivered By: (Circle One) Sample Condition CHECKED,BY: Sample Condition Checket, and output possible of the applicable of the appl																												
Please email results to pm@basinenv.com Delivered By: (Circle One) Sample Condition CHECKED,BY:																												
Relinquished By: Date: Time: Date: Received By: Date: Received By: Date: Received By: Date: Received By: Date: Received By: Date: Received By: Date: Received By: Date: Received By: Date: Received By: Date: Received By: Date: Received By: Time: Date: Received By: Date: Received By: Date: Received By: Date: Received By: Time: Date: Received By: Date: Received By: Time: Date: Received By: Time: Date: Received By: Time: Date: Received By: Date: Received By: Time: Date: Received By: Time: Date: Received By: Time: Time: Date: Received By: Date: Received By: Time: Time: Date: Received By: Time: Time: Time: Date: Received By: Time: Time: Time: Time: Date: Received By: Time: Time: Time: Time: Date: Received By: Time:																	able		***			160 to 10						
Relinquished By: Date: Received By: Time: Delivered By: (Circle One) Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY:																												
Relinquished By: Date: Time: Delivered By: (Circle One) Sample Condition CHECKED BY: Time: Please email results to pm@basinenv.com			Date:						,	IJ					Phone Re	esult:												
Date: Received By: Time: Delivered By: (Circle One) Sample Condition CHECKED, BY: Time: Please email results to pm@basinenv.com	4/1/	MAL	Time:	5-/	10	1/1	1/		1	10	1/	1/	18	71/			ш	62	□ NO	Aut	JIFAX	#.	2-0					
Time: Delivered By: (Circle One) Sample Condition CHECKED BY: Sample Condition CHECKED	Relinguished B	V / U	Date:	R	ecei	ved	By:		3	-	1		وياسدا	<i>y</i>	ĺ													
Please email results to pm@basinenv.com Delivered By: (Circle One) Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY: Sample Condition CHECKED BY:	<i>,</i> .	-	Time:	_			,																					
Delivered By: (Circle One) Sample Condition CHECKED BY:		(0) 1 0	illic.			,	_									Plea	se er	nail	resu	lts t	o pm	@bas	siner	ıv.co	m			
Sampler JIDS - Rue - Other		Cool Inta				act	-			Initi	ials)		& TA	savo:	ie@B	assPe	t.com	ı										



February 13, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 02/06/13 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 02/06/2013 Sampling Date: 02/06/2013
Reported: 02/13/2013 Sampling Type: Water

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: MW - 1 (H300346-01)

BTEX 8021B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	02/13/2013	ND	0.048	96.4	0.0500	3.00	
Toluene*	< 0.001	0.001	02/13/2013	ND	0.049	98.2	0.0500	2.17	
Ethylbenzene*	<0.001	0.001	02/13/2013	ND	0.048	96.7	0.0500	1.89	
Total Xylenes*	<0.003	0.003	02/13/2013	ND	0.148	98.5	0.150	1.74	
Total BTEX	<0.006	0.006	02/13/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 89.5-12	6						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	16.0	4.00	02/07/2013	ND	108	108	100	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC				10 feet 10 fee	B/I	LL TO	American Services			ANA	LYSIS	REQU	EST				
Project Manage	r: Ben J. Arguijo				P.O. #:												
Address: P.O.	. Box 301				Compa	ny: B	OPCO, LP									ĺ	
City: Lovingto	on	State: NM	Zip: 8	8260	Attn:	Tony	Savoie						Ì				
Phone #: (575	396-2378	Fax #: (575)3	96-142	9	Addres	s : 522	2 W. Mer	nod							. 1		J
Project #:		Project Owne	r: BOPC	O,LP	City: C	arlsb	ad		1			1					j
Project Name:	Bass 3 Federal We	ll #4 Spill	Site "	В"	State: 1	IM.	Zip: 8822	0	1								
Project Location	Project Location: Eddy Co., NM Sampler Name:				Phone	#: (43	2)556-87	30									
Sampler Name:	Thus the		,		Fax #:							1 1					
Lab I.D. Sample I.D. Sample I.D. (6)8RAB OR (C)OMP. WASTEWATER Soll. OIL OIL OIL OIL OIL OIL OIL OIL OIL OIL					1	SERV.	SAMPLI	NG	1	cricles	į					Ē	
H300346	M W - 1		G)RAB	WASTEW SOIL OIL	OTHER:	OTHER:	DATE	TIME	1.11	1 CV						_	
4	171,7-1	7/-	7 7	X'	++>-	X. -	3551 - 17	11: 10	-	X 1		+		+			
			H	++++													
	· · · · · · · · · · · · · · · · · · ·																
			Ш														
			 		+												
analyses, All claims including service. In no event shall C	nd Damages, Cardinal's liability and clier ing those for negligence and any other cr ardinal be liable for incidental or conseq ing out of or related to the performance of	ause whatsoever shall be uental damages, including	deemed wai without limi	ved unless made in writing tation, business interruption	and received by s. loss of use, or	Cardinal w loss of pro	ithin 30 days after ofits incurred by c	completion of t lient, its subsidia	the applicab aries	le				_11			
Relinquished By Mayord () Relinquished By	Rice-	Date:		ived By: LAL A ived By:	lesse	10	/ <u>_</u> .	Phone Re Fax Resu REMARK	It:			l Phone # l Fax #:					
Delivered By	: (Circle One)	Time:		Sample Cond			ED/BY:			e email re avoie@Bass		o pm@ba	sinenv.	com			

Sampler - UPS - Bus - Other:

Cool / Intact / Yes Yes



April 19, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 3 FEDERAL WELL #4 SPILL SITE 'B'

Enclosed are the results of analyses for samples received by the laboratory on 04/12/13 9:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/12/2013 Sampling Date: 04/11/2013
Reported: 04/19/2013 Sampling Type: Water

Project Name: BASS 3 FEDERAL WELL #4 SPILL SITE 'E Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: MW - 1 (H300880-01)

BTEX 8021B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	04/19/2013	ND	0.051	103	0.0500	1.43	
Toluene*	< 0.001	0.001	04/19/2013	ND	0.052	105	0.0500	0.738	
Ethylbenzene*	< 0.001	0.001	04/19/2013	ND	0.051	102	0.0500	0.827	
Total Xylenes*	<0.003	0.003	04/19/2013	ND	0.153	102	0.150	0.961	
Total BTEX	<0.006	0.006	04/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 89.5-12	6						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	24.0	4.00	04/15/2013	ND	104	104	100	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 the 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.



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

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 whistoever 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC	BILL TO	ANALYSIS REQUEST
Project Manager: Ben J. Arguijo	P.O. #:	ANALTOIO REGOLO
Address: P.O. Box 301	Company: BOPCO, LP	
City: Lovington State: NM Zip: 88260	Attn: Tony Savoie	
Phone #: (575) 396-2378	Address: 522 W. Mermod	
Project #: Project Owner: BOPCO, LP	City: Carlsbad	
Project Name: Bass 3 Federal Well #4 Spill Site "B"	State: NM Zip: 88220	
Project Location: Eddy Co., NM	Phone #: (432) 556-8730	
Sampler Name:	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
Tap I.D. Sample I.D. (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: OTHER: OTHER:	Chlorides
1 Mw-1 G4X	XX 4-1(13 11:45	XX
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contra	t or fort, shall be limited to the amount haid by the client for the	

PLEASE NOTE: Llability 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 uriess 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 consequental 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.

Relinquished By:	Date:	Received By:	Phone Res	sult:	□ Yes	□ No	Add'l Phone #:			·
//a / //	4-12-13	10 11 1	Fax Resul	t: 1	□ Yes	□ No	Add'l Fax #:	<u> </u>	- :	
1 JOSH SMITW	Time:	KA Klabra	REMARKS):						
Relinquished By:	Date:	Regeived By:	1							
El Black no 2	Time: 9'80	Dai denson	,	Please	email	l resul	ts to pm@basi	nensr dom		
Delivered By: (Circle One)		/ Sample Condition CHECKED BY:				BassPet		nenv.com		
Sampler - UPS - Bus - Other:	ų.	Cool Intact (hittals) Ves Ves No No		: IASa	.voie@i	oassret	. Colli			