

ENVIRONMENTAL PLUS, INC.

2100 AVE 'O'
P.O. BOX 1558
EUNICE, NM 88231
ddominguezepi@gmail.com
Office: (575)394-3481
Fax: (575)394-2601



CLOSURE REPORT

**BOPCO, L.P.
PLU #261 Tank Battery
Eddy County, New Mexico
Unit Letter "J", Section 21, Township 24 South, Range 30 East
Latitude 32.201808 North, Longitude 103.883505 West
NMOCD Reference #2RP-1012
NMOCD Reference #2RP-2333
NMOCD Reference #2RP-2957**

Prepared For:

**BOPCO, L.P.
522 W. Mermod, Suite 704
Carlsbad, New Mexico 88220**

Prepared By:

**Environmental Plus, Inc.
2100 Ave 'O'
Eunice, NM 88231**

June 2016

**Daniel Dominguez
Project Manager**



29 June 2016

Mr. Mike Bratcher
Environmental Specialist
NMOCD
811 S. First St.
Artesia, New Mexico 88210

RE: Final Closure Report
Bopco – PLU #261 Tank Battery
UL-J, Section 21, Township 24 South, Range 30 East
Eddy County, New Mexico
NMOCD Reference's #2RP-1012, #2RP-2333, #2RP-2957

Mr. Bratcher:

The following *Final Closure Report* serves as a condensed update on closure activities for the above referenced Site.

Background Information:

Release one, designated 2RP-1012, occurred when a new well was brought onto the production at the PLU-261 battery; the new well went on gas surge and pushed all of the oil out of the production vessels into a temporary gas purge tank which overflowed. The well was shut in and the gas problem was corrected. The area around the lined tank containment was enclosed with an earthen berm which kept all of the spilled fluid on the well pad and tank battery pad. An area measuring approximately 18,000 sq. ft. was affected by the spill. The free oil was recovered with a vacuum truck and the heavily saturated soil around the process vessels and lines was hand dug and stockpiled on-site.

Release two, designated 2RP-2333, occurred when a valve was left closed on the header and the well was put back on line. The excessive pressure blew out one of the Victaulic gaskets on the well header. The wells were shut in and the gasket was replaced. The release impacted approximately 2,800 sq. ft. of tank battery pad area around the process equipment. This spill is in the same place as a previous spill that had been partially excavated and sampled for compliance. Reference 2RP-1012. The saturated soil will be excavated by hand and a hydro-vac as far as practicable around the process lines and vessels.

Release three, designated 2RP-2957, occurred when a four inch check valve on the header failed and released 71 barrels of produced water and 30 barrels of oil to the ground surface, there are also several areas where the fluid did get off the well pad. Area one was north of the battery and pipeline valve settings, area two was an overspray area to the northwest of the battery. The spill impacted approximately 18,900 sq. ft. of pad area, caliche lease road and pasture area. The release also misted approximately 11,500 sq. ft. of pasture. BOPCO plans to spray the overspray area with a Micro-Blaze mix and have a backhoe conduct surface scrape on the areas that are accessible.

Remediation Activities:

Releases one and two, 2RP-1012 and 2RP-2333, were remediated by Basin Environmental. The release areas were sampled on August 20-21, and September 5, 2014 (reference *Figure 3* and *Attachment II*). Based on those samples, laboratory analytical data, and NMOCD approval, the contaminated soil was excavated one (1) foot bgs in the areas around SP #1 – SP #16 and hauled to a state approved facility for disposal (reference *Attachment III*).

EPI personnel mobilized on the site on April 13, 2015 to collect soil samples to determine the vertical extent of contamination on release three, 2RP-2957. A total of fourteen (14) soil samples were collected from six (6) sample locations; SP1 – SP6. All samples were field tested for organic vapors and chloride concentrations. Soil samples were placed in self-sealing polyethylene bags and allowed to equilibrate to ~70° F. Soil samples were tested for organic vapors utilizing a Mini-Rae™ Photoionization Detector (PID) equipped with a 10.6 electron-volt (eV) lamp calibrated for benzene response. Chloride concentrations were determined via use of a LaMotte Chloride Kit (Titration Method).

Field testing results indicate elevated Chloride concentrations in SP2 at three (3) inches bgs, SP3 to one (1) foot bgs, and SP4 to one (1) foot bgs. Field testing results indicate low levels of organic vapors in all samples. On June 7, 2016 two (2) additional soil samples were collected by EPI personnel from Basin's sample location SP #8. Laboratory analytical data indicates Benzene, BTEX, TPH, and Chloride levels to be below NMOCD RRALs of 10 mg/Kg, 50 mg/Kg, 5,000 mg/Kg, and 1,000 mg/Kg, respectively, for both samples (reference *Figure 4* and *Table 2*).

Based on laboratory analytical data and, and NMOCD approval the release area was excavated to a depth of approximately one (1) foot bgs in the area of SP #8 and a 20 mil poly-ethylene liner installed. The surface area around SP1 – SP6 was scraped up. All contaminated soil was hauled to a state approved facility for disposal. The overspray area to the north and northwest of the battery was thoroughly sprayed with a six (6) percent solution of Micro-Blaze. Approximately 68 tons of contaminated soil was excavated and hauled to a state approved facility for disposal.

Closure Activities:

With NMOCD approval the excavation was backfilled with approximately 68 tons of clean soil. All soil was free of rocks, clumps or deleterious material. The entire disturbed area was then contoured to blend with existing pad area and protected against wind/water erosion.

Should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at ddominguezepi@gmail.com or Mr. Brad Blevins at (432) 214-3704 or via e-mail at bblevins@basspet.com. All official communication should be addressed to:

Mr. Brad Blevins
Bopco, L.P.
522 W. Mermond, Suite 704
Carlsbad, NM 88220

Sincerely,

ENVIRONMENTAL PLUS, INC.

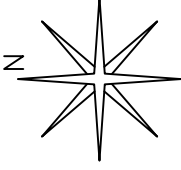
Daniel Dominguez
Environmental Consultant

cc: Brad Blevins, EHS Asst. Remediation Foreman – Bopco, L.P.
File

Encl.: Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Site/Sample Map – Basin
Figure 4 – Site/Sample Map – EPI
Table 1 – Well Data
Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results
Attachment I – Photographs
Attachment II – Basin Environmental Sampling Tables
Attachment III – Correspondence
Attachment IV – Laboratory Analytical Data
Attachment V – Copy of Initial NMOCD Form C-141's, Final C-141's

FIGURES



Figure 1 Area Map Bopco, L.P. PLU #261 Tank Battery		Eddy County, New Mexico NW 1/4 of SE 1/4, Sec. 21, T24S, R30E N 32° 12' 5.56" W 103° 53' 0.71" Elevation: 3,323 feet amsl		DWG By: D Dominguez June 2016		REVISED:			
						0 3 6 Miles		SHEET 1 of 1	

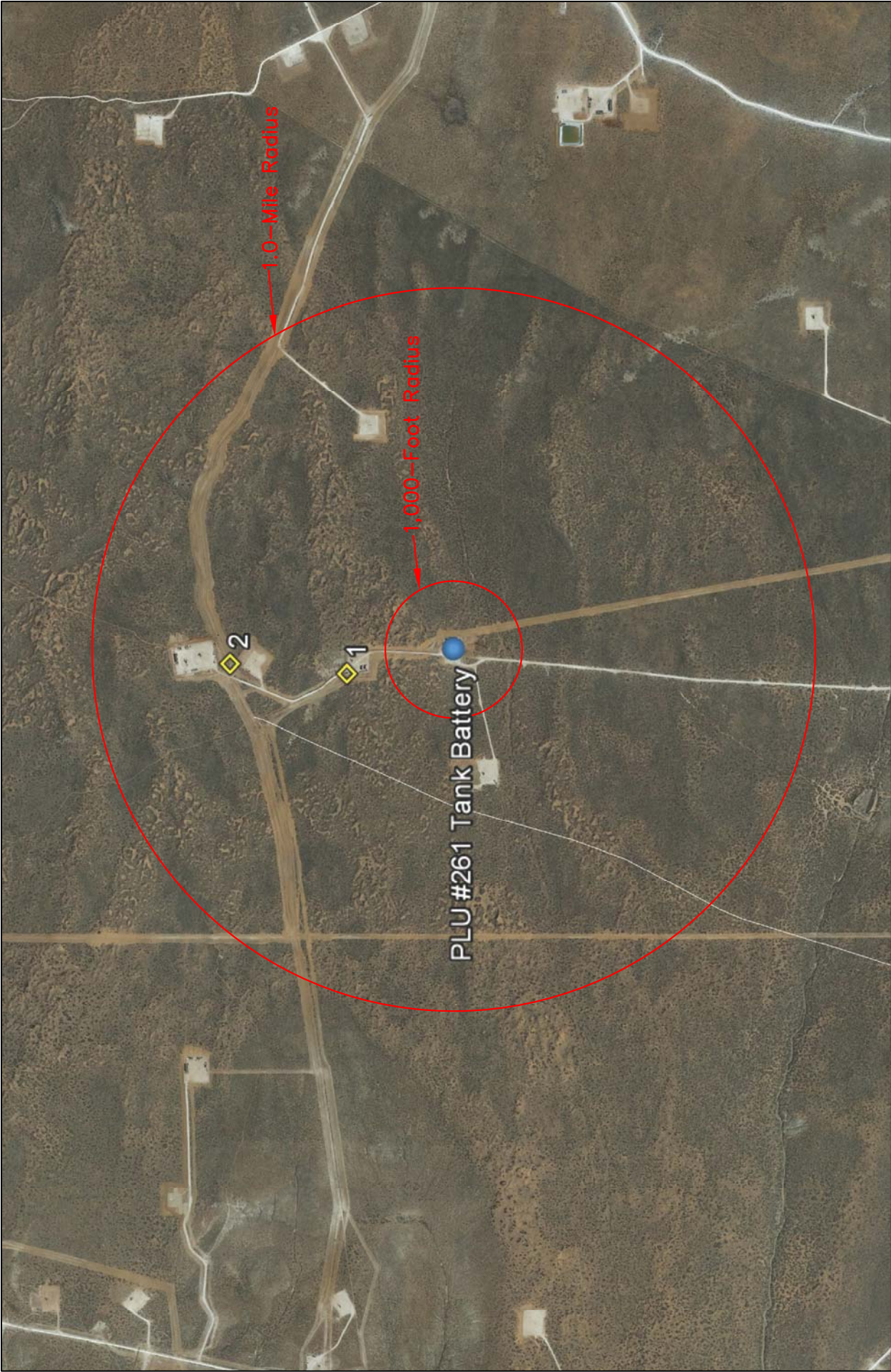
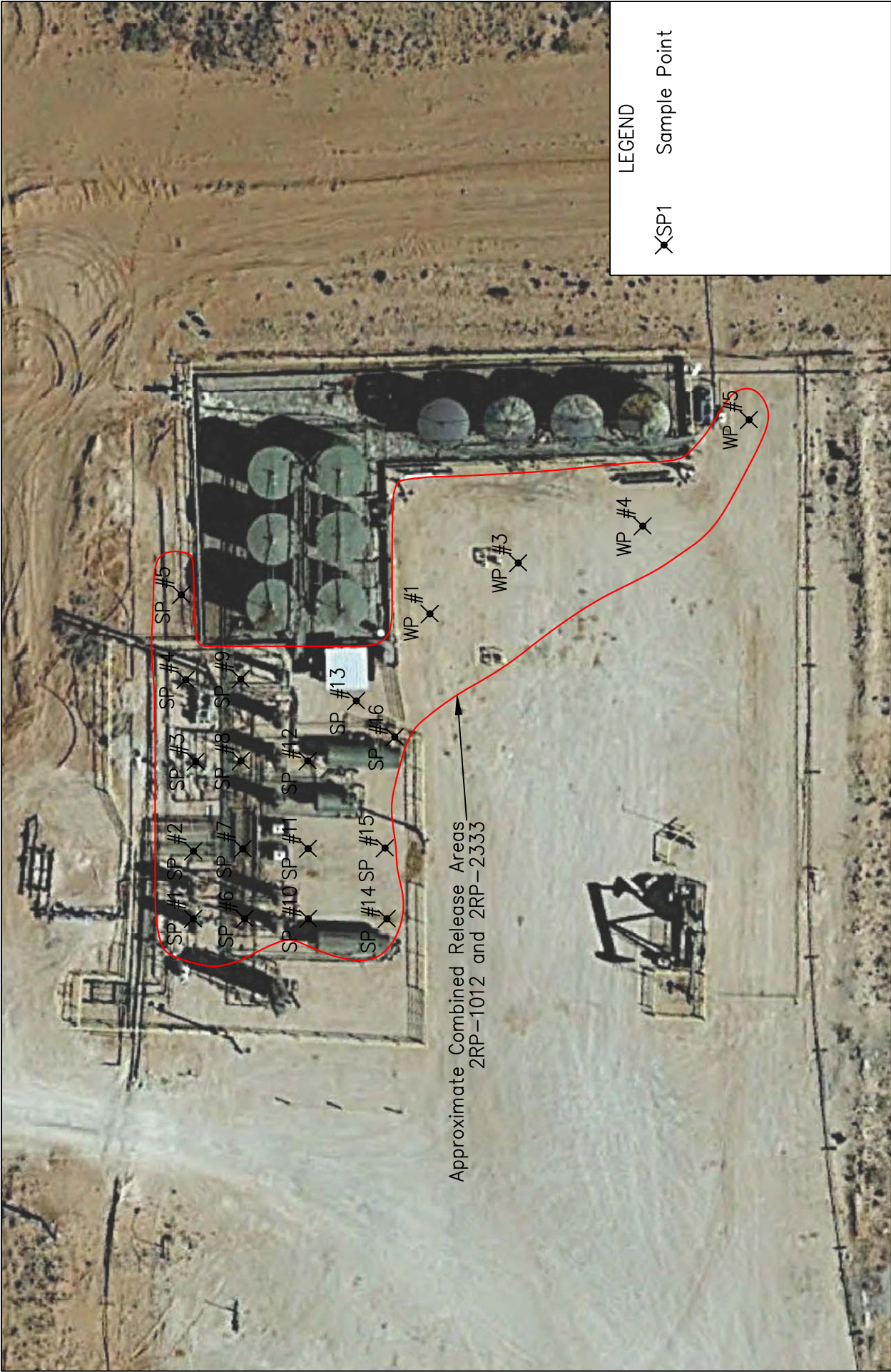

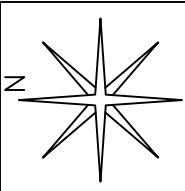


Figure 2 Site Location Map Bopco, L.P. PLU #261 Tank Battery	Eddy County, New Mexico NW 1/4 of SE 1/4, Sec. 21, T24S, R30E N 32° 12' 5.56" W 103° 53' 0.71" Elevation: 3,323 feet amsl		DWG By: D Dominguez June 2016		REVISED:			
			 Feet		4,000			SHEET
								1 of 1





		<p>Eddy County, New Mexico NW 1/4 of SE 1/4, Sec. 21, T24S, R30E N 32° 12' 5.56" W 103° 53' 0.71" Elevation: 3,323 feet amsl</p>		<p>DWG By: D Dominguez June 2016</p>		<p>REVISED:</p>			
<p>Figure 4 Site/Sample Map – EPI Bopco, L.P. PLU #261 Tank Battery</p>				<p>0 60 120 Feet</p>		<p>SHEET 1 of 1</p>			

TABLES

TABLE 1

Well Data

Bopco, L.P. - PLU #261 Tank Battery

Ref #	Well Number	Use	Diversion ^A	Owner	q64	q16	q4	Sec	Twsp	Rng	Easting	Northing	Distance ^B	Date Measured	Surface Elevation ^C	Depth to Water (ft bgs)
1	C 02107	DOL	0	M & M CATTLE CO.		3	2	21	24S	30E	605174	3563706	387	--	3,360	--
2	C 03893	CPS	0	DARRELL GRASS DRILLING	1	1	2	21	24S	30E	605162	3564162	842	26-Aug-15	3,356	--

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1)

^A = In acre feet per annum

^B = In meters

^C = Elevation interpolated from USGS topographical map based on referenced location.

DOL = 72-12-1 Domestic and Livestock watering

CPS = Cathodic Protection Well

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
Bopco L.P.

PLU #261 Tank Battery

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO C28-C35 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP1	3"	Excavated	13-Apr-15	0.0	80	--	--	--	--	--	--	--	--	--	--
	1	In Situ	13-Apr-15	0.0	80	--	--	--	--	--	--	--	--	--	--
SP2	3"	Excavated	13-Apr-15	12.4	1,120	--	--	--	--	--	--	--	--	--	--
	1	In Situ	13-Apr-15	1.5	80	--	--	--	--	--	--	--	--	--	--
SP3	3"	Excavated	13-Apr-15	10.8	>4,000	--	--	--	--	--	--	--	--	--	--
	1	In Situ	13-Apr-15	0.2	1,040	--	--	--	--	--	--	--	--	--	--
	2	In Situ	13-Apr-15	0.0	160	--	--	--	--	--	--	--	--	--	--
SP4	3"	Excavated	13-Apr-15	11.2	720	--	--	--	--	--	--	--	--	--	--
	1	In Situ	13-Apr-15	0.5	600	--	--	--	--	--	--	--	--	--	--
	2	In Situ	13-Apr-15	0.5	80	--	--	--	--	--	--	--	--	--	--
SP5	3"	Excavated	13-Apr-15	8.4	160	--	--	--	--	--	--	--	--	--	--
	1	In Situ	13-Apr-15	1.1	160	--	--	--	--	--	--	--	--	--	--
SP6	3"	Excavated	13-Apr-15	5.4	400	--	--	--	--	--	--	--	--	--	--
	1	In Situ	13-Apr-15	0.2	80	--	--	--	--	--	--	--	--	--	--
SP8	1	Excavated	07-Jun-16	5.2	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,030	428	1,458	544
	2	In Situ	07-Jun-16	5.8	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	937	371	1,308	432
NMOCD Recommended Remedial Action Levels				100		10				50				5,000	1,000

-- = Not Analyzed
Red values are in excess of NMOCD Recommended Remedial Action Levels
Shaded values indicates soil has been excavated

ATTACHMENTS

ATTACHMENT I
Photographs



Photograph #1 – Overspray area



Photograph #2 – Overspray area



Photograph #3 – Looking across release area



Photograph #4 – Looking across release area



Photograph #5 – Excavated area



Photograph #6 – Excavated area



Photograph #7 – Excavated area



Photograph #8 – Excavated area



Photograph #9 – Liner installed



Photograph #10 – Backfilled area



Photograph #11 – Backfilled area



Photograph #12 – Backfilled area



Photograph #13 – Backfilled area



Photograph #14 – Backfilled area

ATTACHMENT II
Basin Environmental Sampling Tables

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP
POKER LAKE UNIT #261 TANK BATTERY
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-2128

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	4500 Cl-B CHLORID E (mg/Kg)
				BENZEN E (mg/Kg)	TOLUEN E (mg/Kg)	ETHYL- BENZEN E (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)		
WP #1 @ Surf	Surface	8/21/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	271	174	445	96.0
WP #1 @ 1'	1'	8/21/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,090
WP #3 @ Surf	Surface	8/21/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	51.5	5890	1440	7,382	1,140
WP #3 @ 1'	1'	8/21/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	96.0
WP #4 @ Surf	Surface	8/21/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	928
WP #4 @ 1'	1'	8/21/2014	In-Situ	-	-	-	-	-	-	-	-	-	48.0
WP #5 @ Surf	Surface	8/21/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	771	282	1,053	2,000
WP #5 @ 1'	1'	8/21/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,140
SP #1 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	103	15,700	4,510	20,313	1,470
SP #1 @ 2'	2'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	800
SP #2 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	102	5,420	2130	7,652	3,880
SP #2 @ 2'	2'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	528
SP #3 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	73.9	4,000	1200	5,274	9,060
SP #3 @ 6'	6'	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.5	<10.0	16.5	1,550
SP #3 @ 10'	10'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	720
SP #4 @ Surf	Surface	8/20/2014	In-Situ	<0.100	<0.100	<0.100	0.474	<0.600	142	7,740	2,350	10,232	6,160
SP #4 @ 6'	6'	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	15.3	15.3	848
SP #4 @ 10'	10'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	688
SP #5 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	50.3	1,460	542	2,052	7,280
SP #5 @ 4'	4'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	496
SP #6 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	103	7,950	2,440	10,493	1,600
SP #6 @ 4'	4'	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	13.5	13.5	848
SP #7 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	51.8	3,590	1,480	5,122	3,440
SP #7 @ 6'	6'	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	20.6	20.6	1,790
SP #7 @ 10'	10'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	784
SP #8 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	52.1	4,550	1,580	6,182	11,200
SP #8 @ 6'	6'	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	17.4	17.4	1,420
SP #8 @ 10'	10'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,390
SP #9 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	54.9	6,840	2020	8,915	3,680
SP #9 @ 4'	4'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	272
SP #10 @ Surf	Surface	8/20/2014	In-Situ	<0.050	0.207	0.193	1.56	1.96	177	7,280	1,600	9,057	6,400
SP #10 @ 4'	4'	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.6	26.2	49.8	48.0
SP #11 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
SP #11 @ 18"	18"	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	3,320
SP #12 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	51.4	4,730	1,470	6,251	704
SP #12 @ 2'	2'	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	87.5	54.9	142.4	688
SP #13 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	674	277	951	4,160
SP #13 @ 2'	2'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	640
SP #14 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SP #14 @ 1'	1'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	256
SP #15 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	72.1	9,670	3,050	12,792	4,280
SP #15 @ 1'	1'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,420
SP #15 @ 4'	4'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
SP #16 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	20.9	1,250	446	1,716	192
SP #16 @ 2'	2'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	144
SP #1a @ 18"	1.5'	9/5/2014	In-Situ	-	-	-	-	-	<10.0	243	76.7	319.7	-
SP #2a @ 18"	1.5'	9/5/2014	In-Situ	-	-	-	-	-	<50.0	3,340	1,210	4,450	-
SP #9a @ 18"	1.5'	9/5/2014	In-Situ	-	-	-	-	-	<10.0	214	73.2	287.2	-
SP #15a @ 18"	1.5'	9/5/2014	In-Situ	-	-	-	-	-	<50.0	1,410	335	1,745	-
SP #16a @ 18"	1.5'	9/5/2014	In-Situ	-	-	-	-	-	<10.0	21.0	<10.0	21.0	-
NMOCD Criteria				10				50				5,000	1,000

- = Not analyzed.

PLU #261 Battery

Field Test Results

8/19/14-8/20/14

Field Results (Facility)				
Location	Depth	CL-	PID	HydroCarbon
SP #1	Surface	1108	12.5	Sheen
SP #1	2'	864	5.5	None
SP #2	Surface	3112	6.2	Sheen
SP #2	2'	476	6.1	None
SP #3	Surface	9644	9.3	Slight
SP #3	2'	2204	6.3	None
SP #3	4'	1506	-	None
SP #4	Surface	6380	18.7	Sheen
SP #4	2'	2204	8.9	None
SP #4	4'	1352	-	None
SP #5	Surface	6380	2.5	None
SP #5	1'	6380	4.1	None
SP #5	4'	572	-	None
SP #6	Surface	5892	23.9	Sheen
SP #6	1'	3972	17.3	Sheen
SP #6	4'	864	-	None
SP #7	Surface	2864	32.6	Sheen
SP #7	1'	5024	63.8	Sheen
SP #7	4'	1796	-	None
SP #8	Surface	8852	10.8	Sheen
SP #8	2'	1796	10.4	None
SP #8	4'	1356	-	None
SP #9	Surface	3380	102	Sheen
SP #9	2'	1168	43.6	None
SP #9	4'	<120	0.03	None
SP #10	Surface	1256	873	Sheen
SP #10	1'	2864	318	Sheen
SP #10	4'	<120	49.1	None
SP #11	Surface	-	10.3	None
SP #11	18"	680	8.3	None
SP #12	Surface	3032	23.5	Sheen
SP #12	2'	432	7	None
SP #13	Surface	4612	5.3	None
SP #13	2'	624		None
SP #14	Surface	<120	3.8	None
SP #14	1'	244	2.1	None
SP #15	Surface	3972	2.4	Sheen
SP #15	1'	1352	3.6	None
SP #15	4'	<120		None
SP #16	Surface	180	220	Sheen
SP #16	2'	152	16	None

Field Results (Flare)			
Location	Depth	CL-	HydroCarbon
East	Surface	476	Yes
East	1'	124	None
West	Surface	180	Yes
West	1'	<120	None

Field Results (Well Pad)			
Location	Depth	CL-	HydroCarbon
WP #1	Surface	<120	None
WP #1	1'	<120	None
WP #3	Surface	1008	None
WP #3	1'	<120	None
WP #4	Surface	800	None
WP #4	1'	<120	None
WP #5	Surface	2228	None
WP #5	1'	932	None

ATTACHMENT III
Correspondence

Blevins, Bradley

From: Blevins, Bradley
Sent: Thursday, March 10, 2016 10:30 AM
To: mike.bratcher@state.nm.us; heather.patterson@state.nm.us
Cc: Blevins, Bradley
Subject: PLU 261 Battery Remediation
Attachments: Initial C-141-2RP-2333.pdf; Initial C-141-2RP-2957.pdf; C-141-2RP-1012.pdf; 1.PLU 261 Battery.pdf

Mike/ Heather

Please find the attached (PLU 261 Battery email) that outlines the agreed to work plan from our meeting. I have been putting the work plan together for Ft Worth's approval and would like to ensure that the previous agreement and work plan remains to be approved by the OCD. I would like to address all three open C-141's as discussed. Please let me know if you have any questions or concerns and if there is a need for a brief refresher on the site I would be happy to meet with you to discuss. Thank you.

Brad Blevins
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, NM 88220
Office-575-887-7329
Cell-1-432-214-3704
bblevins@basspet.com

From: [Blevins, Bradley](#)
To: [Bratcher, Mike, EMNRD](#)
Cc: [Blevins, Bradley](#)
Subject: PLU 261 Battery
Date: Monday, September 22, 2014 1:17:45 PM

Mike,

Per our meeting today 9-22-14, it was agreed that BOPCO would excavate one foot of material from the areas containing sample points one through sixteen. SP 8, we will collect more samples at one and two feet bgs and submit them to you via email. We do have field screening info from this sampling event if needed. A small area around SP 11 will be lined with a layer of compacted clay, this area will be risked out due to the close proximity of the process equipment. The well pad area and recent minor non reportable truck spill will be remediated between 6 inches to one foot. The current battery area, once removed will be delineated and submitted to you for approval. Thank you for taking the time today to meet with me. If you have any questions or concerns please let me know.

Thanks,

Brad Blevins
Assistant Remediation Foreman
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, NM 88220
Office-575-887-7329
Cell-1-432-214-3704
bblevins@basspet.com

Blevins, Bradley

From: Patterson, Heather, EMNRD <Heather.Patterson@state.nm.us>
Sent: Monday, March 14, 2016 10:06 AM
To: Blevins, Bradley
Cc: Bratcher, Mike, EMNRD
Subject: RE: PLU 261 Battery Remediation

RE: BOPCO * PLU 261 Battery * 30-015-34877 * 2RP-2333 * 2RP-2957 * 2RP-1012

Bradley,

Our agreed upon work plan for the above listed releases still stands. Due to the age of the sampling, additional confirmation samples may be necessary, but that may be done with field screens.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson
Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Blevins, Bradley [<mailto:BBlevins@BassPet.Com>]
Sent: Thursday, March 10, 2016 10:30 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: Blevins, Bradley
Subject: PLU 261 Battery Remediation

Mike/ Heather

Please find the attached (PLU 261 Battery email) that outlines the agreed to work plan from our meeting. I have been putting the work plan together for Ft Worth's approval and would like to ensure that the previous agreement and work plan remains to be approved by the OCD. I would like to address all three open C-141's as discussed. Please let me know if you have any questions or concerns and if there is a need for a brief refresher on the site I would be happy to meet with you to discuss. Thank you.

Brad Blevins
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, NM 88220
Office-575-887-7329
Cell-1-432-214-3704
bblevins@basspet.com

ATTACHMENT IV
Laboratory Analytical Data

September 03, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #261 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/26/14 14:04.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 1 @ SURFACE (H402616-01)

BTX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39	
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71	
Total BTX	<0.300	0.300	08/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	08/27/2014	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	103	100	08/27/2014	ND	185	92.6	200	2.15	
DRO >C10-C28	15700	100	08/27/2014	ND	203	101	200	2.87	
EXT DRO >C28-C35	4510	100	08/27/2014	ND					

Surrogate: 1-Chlorooctane 80.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 427 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 1 @ 2' (H402616-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	08/27/2014	ND	432	108	400	7.69		

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*=Accredited Analyte

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 2 @ SURFACE (H402616-03)

BTX 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39		
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49		
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41		
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71		
Total BTX	<0.300	0.300	08/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3880	16.0	08/28/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	102	100	08/27/2014	ND	185	92.6	200	2.15	
DRO >C10-C28	5420	100	08/27/2014	ND	203	101	200	2.87	
EXT DRO >C28-C35	2130	100	08/27/2014	ND					

Surrogate: 1-Chlorooctane 69.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 334 % 63.6-154

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 2 @ 2' (H402616-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	08/28/2014	ND	400	100	400	0.00		

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 3 @ SURFACE (H402616-05)

BTEx 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39		
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49		
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41		
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71		
Total BTEx	<0.300	0.300	08/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9060	16.0	08/28/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	73.9	50.0	08/27/2014	ND	185	92.6	200	2.15	
DRO >C10-C28	4000	50.0	08/27/2014	ND	203	101	200	2.87	
EXT DRO >C28-C35	1200	50.0	08/27/2014	ND					

Surrogate: 1-Chlorooctane 92.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 181 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 3 @ 6' (H402616-06)

BTX 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39		
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49		
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41		
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71		
Total BTX	<0.300	0.300	08/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	16.0	08/28/2014	ND	400	100	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	16.5	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	<10.0	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 3 @ 10' (H402616-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	08/28/2014	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 4 @ SURFACE (H402616-08)

BTEx 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	08/28/2014	ND	1.76	88.1	2.00	2.39		
Toluene*	<0.100	0.100	08/28/2014	ND	1.62	81.0	2.00	1.49		
Ethylbenzene*	<0.100	0.100	08/28/2014	ND	1.83	91.6	2.00	1.41		
Total Xylenes*	0.474	0.300	08/28/2014	ND	5.49	91.4	6.00	1.71		
Total BTEx	<0.600	0.600	08/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	08/28/2014	ND	400	100	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	142	100	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	7740	100	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	2350	100	08/28/2014	ND					

Surrogate: 1-Chlorooctane 126 % 65.2-140

Surrogate: 1-Chlorooctadecane 322 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 4 @ 6' (H402616-09)

BTEX 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39		
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49		
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41		
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71		
Total BTEX	<0.300	0.300	08/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	08/28/2014	ND	400	100	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	15.3	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 4 @ 10' (H402616-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	08/28/2014	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 5 @ SURFACE (H402616-11)

BTX 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39		
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49		
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41		
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71		
Total BTX	<0.300	0.300	08/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7280	16.0	08/28/2014	ND	400	100	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	50.3	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	1460	50.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	542	50.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 201 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 5 @ 4' (H402616-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/28/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/26/2014
 Reported: 09/03/2014
 Project Name: PLU #261 TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/20/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: SP 6 @ SURFACE (H402616-13)

BTEx 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	08/28/2014	ND	1.76	88.1	2.00	2.39		
Toluene*	<0.100	0.100	08/28/2014	ND	1.62	81.0	2.00	1.49		
Ethylbenzene*	<0.100	0.100	08/28/2014	ND	1.83	91.6	2.00	1.41		
Total Xylenes*	<0.300	0.300	08/28/2014	ND	5.49	91.4	6.00	1.71		
Total BTEx	<0.600	0.600	08/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	08/28/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	103	100	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	7950	100	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	2440	100	08/28/2014	ND					

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 321 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 6 @ 4' (H402616-14)

BTX 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39		
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49		
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41		
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71		
Total BTX	<0.300	0.300	08/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	08/28/2014	ND	400	100	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	13.5	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/26/2014
 Reported: 09/03/2014
 Project Name: PLU #261 TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/20/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: SP 7 @ SURFACE (H402616-15)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	08/28/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	51.8	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	3590	50.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	1480	50.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 252 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 7 @ 6' (H402616-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEx	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	08/28/2014	ND	400	100	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	20.6	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 7 @ 10' (H402616-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	08/28/2014	ND	400	100	400	0.00		

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JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 8 @ SURFACE (H402616-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEx	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	08/28/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	52.1	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	4550	50.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	1580	50.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 248 % 63.6-154

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JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 8 @ 6' (H402616-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEx	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	08/28/2014	ND	400	100	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	17.4	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

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JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 8 @ 10' (H402616-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	08/28/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 9 @ SURFACE (H402616-21)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEx	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	08/28/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	54.9	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	6840	50.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	2020	50.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 292 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 9 @ 4' (H402616-22)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEx	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/28/2014	ND	400	100	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	27.2	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 135 % 63.6-154

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 10 @ SURFACE (H402616-23)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	0.207	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	0.193	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	1.56	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTX	1.96	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	08/28/2014	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	177	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	7280	50.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	1600	50.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 149 % 65.2-140

Surrogate: 1-Chlorooctadecane 250 % 63.6-154

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 10 @ 4' (H402616-24)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEx	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2014	ND	416	104	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	23.6	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	26.2	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 134 % 63.6-154

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Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 11 @ SURFACE (H402616-25)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13		
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37		
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17		
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42		
Total BTEx	<0.300	0.300	08/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/28/2014	ND	416	104	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	<10.0	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 11 @ 18" (H402616-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	08/28/2014	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 12 @ SURFACE (H402616-27)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13		
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37		
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17		
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42		
Total BTEx	<0.300	0.300	08/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/28/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	51.4	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	4730	50.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	1470	50.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 131 % 65.2-140

Surrogate: 1-Chlorooctadecane 243 % 63.6-154

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 12 @ 2' (H402616-28)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13		
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37		
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17		
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42		
Total BTEx	<0.300	0.300	08/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/28/2014	ND	416	104	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	87.5	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	54.9	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 139 % 63.6-154

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 13 @ SURFACE (H402616-29)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13		
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37		
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17		
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42		
Total BTEX	<0.300	0.300	08/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	08/28/2014	ND	416	104	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	08/27/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	674	10.0	08/27/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	277	10.0	08/27/2014	ND					

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 149 % 63.6-154

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JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 13 @ 2' (H402616-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	08/28/2014	ND	416	104	400	0.00		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 14 @ SURFACE (H402616-31)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13		
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37		
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17		
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42		
Total BTEx	<0.300	0.300	08/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/28/2014	ND	416	104	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	08/27/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	<10.0	10.0	08/27/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	<10.0	10.0	08/27/2014	ND					

Surrogate: 1-Chlorooctane 97.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 14 @ 1' (H402616-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/28/2014	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 15 @ SURFACE (H402616-33)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	09/03/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/03/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	09/03/2014	ND	5.48	91.4	6.00	4.42	
Total BTEx	<0.300	0.300	09/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4280	16.0	08/28/2014	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: ms						S-06

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	72.1	50.0	09/02/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	9670	50.0	09/02/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	3050	50.0	09/02/2014	ND					

Surrogate: 1-Chlorooctane 92.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 304 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/26/2014	Sampling Date:	08/20/2014
Reported:	09/03/2014	Sampling Type:	Soil
Project Name:	PLU #261 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 15 @ 1' (H402616-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	08/28/2014	ND	416	104	400	0.00	

Sample ID: SP 15 @ 4' (H402616-35)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/28/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 16 @ SURFACE (H402616-36)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	09/03/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/03/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	09/03/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	09/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/28/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	20.9	10.0	09/03/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	1250	10.0	09/03/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	446	10.0	09/03/2014	ND					

Surrogate: 1-Chlorooctane 146 % 65.2-140

Surrogate: 1-Chlorooctadecane 177 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/03/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 16 @ 2' (H402616-37)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2014	ND	1.74	87.2	2.00	6.13		
Toluene*	<0.050	0.050	09/03/2014	ND	1.62	80.9	2.00	5.37		
Ethylbenzene*	<0.050	0.050	09/03/2014	ND	1.85	92.3	2.00	4.17		
Total Xylenes*	<0.150	0.150	09/03/2014	ND	5.48	91.4	6.00	4.42		
Total BTEx	<0.300	0.300	09/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/28/2014	ND	416	104	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	09/02/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	<10.0	10.0	09/02/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	<10.0	10.0	09/02/2014	ND					

Surrogate: 1-Chlorooctane 92.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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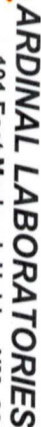
Celey D. Keene, Lab Director/Quality Manager



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

1 of 1

Page 39 of 42



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 40 of 42

Company Name: Basin Environmental Service Technologies, LLC							BILL TO						ANALYSIS REQUEST												
Project Manager: Joel Lowmy							P.O. #:																		
Address: P.O. Box 301							Company: BOPCO, LP																		
City: Lovington							Attn: Tony Savoie																		
Phone #: (575)396-2378							Address: 522 W. Marland																		
Fax #: (575)396-1429							City: Carlsbad																		
Project #:							State: NM Zip: 88220																		
Project Name: PLU #261 Tank Battery							Phone #: (432)556-8730																		
Project Location: Eddy Co., NM							Fax #:																		
Sampler Name: Joel Lowmy																									
FOR LAB USE ONLY																									
Lab I.D.							Sample I.D.																		
(G)RAB OR (C)OMP.							# CONTAINERS																		
GROUNDWATER							MATRIX																		
WASTEWATER							PRESERV.																		
SOIL							SAMPLING																		
OIL																									
SLUDGE																									
OTHER :																									
ACID/BASE:																									
ICE / COOL																									
OTHER :																									
DATE							TIME																		
11 SP #5 @ Surf							g 1						8/20/14 1100 x X												
13 SP #5 @ 4'							g 1						8/20/14 1110 x X												
14 SP #6 @ Surf							g 1						8/20/14 1120 x X												
14 SP #6 @ 4'							g 1						8/20/14 1130 x X												
15 SP #7 @ Surf							g 1						8/20/14 1140 x X												
16 SP #7 @ 6'							g 1						8/20/14 1150 x X												
17 SP #7 @ 10'							g 1						8/20/14 1200 x X												
18 SP #8 @ Surf							g 1						8/20/14 1210 x X												
19 SP #8 @ 6'							g 1						8/20/14 1220 x X												
20 SP #8 @ 10'							g 1						8/20/14 1230 x X												
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Relinquished By: [Signature]													Received By: [Signature]												
Time: [Blank]													Time: [Blank]												
Date: [Blank]													Date: [Blank]												
Delivered By: (Circle One)													Sample Condition												
Cool Intact													CHECKED BY: [Initials]												
Yes No													Yes No												
Sampler - UPS - Bus - Other:													[Blank]												
FORM-006													Cardinal cannot accept verbal changes. Please fax written changes to 575-396-2378.												



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

Company Name: Basin Environmental Service Technologies, LLC
Project Manager: Joel Lowry
Address: P.O. Box 301
City: Lovington
State: NM Zip: 88260
Phone #: (575)396-2378 Fax #: (575)396-1429
Project #: Project Owner:
Project Name: PLU #261 Tank Battery
Project Location: Eddy Co., NM
Sampler Name: Joel Lowry

P.O. #: Company: BOPCO, LP
Attn: Tony Savio
Address: 522 W. Marland
City: Carlsbad
State: NM Zip: 88220
Phone #: (432)566-8730
Fax #:

BILL TO

ANALYSIS REQUEST

FOR LAB USE ONLY	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
Lab I.D.	Sample I.D.												

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)	HOLD FOR TPH
21	SP #9 @ Surf	g	1										8/20/14	1240	x	x		
22	SP #9 @ 4'	g	1										8/20/14	1250	x	x		
23	SP #10 @ Surf	g	1										8/20/14	1300	x	x		
24	SP #10 @ 4'	g	1										8/20/14	1310	x	x		
25	SP #11 @ Surf	g	2										8/20/14	1320	x	x		
26	SP #11 @ 18"	g	1										8/20/14	1330	x			
27	SP #12 @ Surf	g	1										8/20/14	1400	x			
28	SP #12 @ 2'	g	1										8/20/14	1405	x			
29	SP #13 @ Surf	g	1										8/20/14	1415	x			
30	SP #13 @ 2'	g	1										8/20/14	1420	x			

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Relinquished By:

Date: 8/20/14 Received By: J. Lowry

Relinquished By: Joel Lowry

Date: 8/20/14 Received By: J. Lowry

Delivered By: (Circle One)

Sample Condition: Cool ☒ Intact ☒ Yes ☐ No ☐ No

CHECKED BY: (Initials) JLB

Sampler - UPS - Bus - Other:

280 #57

FORM-006

Revision 1.0

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



ORDINAL LABORATORIES

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

[illegible]

September 02, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #261 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/26/14 14:04.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/02/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: WP #1 @ SURFACE (H402617-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2014	ND	416	104	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	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	271	10.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	174	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/02/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: WP #1 @ 1' (H402617-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/28/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
Reported: 09/02/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: WP #3 @ SURFACE (H402617-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13		
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37		
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17		
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42		
Total BTEX	<0.300	0.300	08/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	08/28/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	51.5	50.0	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	5890	50.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	1440	50.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 236 % 63.6-154

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

Received: 08/26/2014
Reported: 09/02/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: WP #3 @ 1' (H402617-04)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2014	ND	416	104	400	3.92	

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

Received: 08/26/2014
Reported: 09/02/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: WP #4 @ SURFACE (H402617-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.81	90.4	2.00	0.649	
Toluene*	<0.050	0.050	08/29/2014	ND	1.68	83.9	2.00	0.254	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.64	82.1	2.00	0.755	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.01	83.5	6.00	0.857	
Total BTX	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	08/28/2014	ND	416	104	400	3.92	

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	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	<10.0	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 93.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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

Received: 08/26/2014
Reported: 09/02/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: WP #4 @ 1' (H402617-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/28/2014	ND	416	104	400	3.92		

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Analytical Results For:

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

Received: 08/26/2014
Reported: 09/02/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: WP #5 @ SURFACE (H402617-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.81	90.4	2.00	0.649	
Toluene*	<0.050	0.050	08/29/2014	ND	1.68	83.9	2.00	0.254	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.64	82.1	2.00	0.755	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.01	83.5	6.00	0.857	
Total BTX	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/28/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	771	50.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	282	50.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 163 % 63.6-154

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Analytical Results For:

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

Received: 08/26/2014
Reported: 09/02/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: WP #5 @ 1' (H402617-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	08/28/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

ANALYSIS REQUEST

[illegible]

PLEASE NOTE: Liability and Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, 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.

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
REMARKS:			

Please email results to pm@basinenv.com,
IASaviole@BassPet.com & S.Iwalters@BassPet.com

HOLD FOR TPH

HOLD FOR TPH

Please email results to pm@basinerv.com,
TASavoie@BassPet.com & SJWalters@BassPet.com

FORM-006
Revision 1.0

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



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

September 12, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #261 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/08/14 11:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/08/2014
Reported: 09/12/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #1A 18" (H402776-01)

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	09/10/2014	ND	171	85.7	200	3.50	
DRO >C10-C28	243	10.0	09/10/2014	ND	194	96.8	200	2.80	
EXT DRO >C28-C35	76.7	10.0	09/10/2014	ND					

Surrogate: 1-Chlorooctane 93.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Sample ID: SP #2A 18" (H402776-02)

TPH 8015M	mg/kg	Analyzed By: ms								S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	09/10/2014	ND	171	85.7	200	3.50		
DRO >C10-C28	3340	50.0	09/10/2014	ND	194	96.8	200	2.80		
EXT DRO >C28-C35	1210	50.0	09/10/2014	ND						

Surrogate: 1-Chlorooctane 96.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 186 % 63.6-154

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JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/08/2014
Reported: 09/12/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #9A 18" (H402776-03)

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	09/10/2014	ND	171	85.7	200	3.50	
DRO >C10-C28	214	10.0	09/10/2014	ND	194	96.8	200	2.80	
EXT DRO >C28-C35	73.2	10.0	09/10/2014	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	96.5 %	65.2-140							
<i>Surrogate: 1-Chlorooctadecane</i>									
	115 %	63.6-154							

Sample ID: SP #15A 18" (H402776-04)

TPH 8015M	mg/kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/10/2014	ND	171	85.7	200	3.50	
DRO >C10-C28	1410	50.0	09/10/2014	ND	194	96.8	200	2.80	
EXT DRO >C28-C35	335	50.0	09/10/2014	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	104 %	65.2-140							
<i>Surrogate: 1-Chlorooctadecane</i>									
	146 %	63.6-154							

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JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/08/2014
Reported: 09/12/2014
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #16A 18" (H402776-05)

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	09/10/2014	ND	171	85.7	200	3.50	
DRO >C10-C28	21.0	10.0	09/10/2014	ND	194	96.8	200	2.80	
EXT DRO >C28-C35	<10.0	10.0	09/10/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	101 %	65.2-140							
Surrogate: 1-Chlorooctadecane	114 %	63.6-154							

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

ANALYSIS REQUEST

#54



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

June 14, 2016

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: PLU #261 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/08/16 11:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 06/08/2016
Reported: 06/14/2016
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PLU 261 SP 8 1' (H601254-01)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	<0.050	0.050	06/10/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.050	0.050	06/10/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	<0.150	0.150	06/10/2016	ND	6.55	109	6.00	0.681	
Total BTEX	<0.300	0.300	06/10/2016	ND					

Surrogate: Dibromofluoromethane 103 % 90.4-111

Surrogate: Toluene-d8 95.4 % 85.3-114

Surrogate: 4-Bromofluorobenzene 117 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/09/2016	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/09/2016	ND	206	103	200	0.676	
DRO >C10-C28	1030	50.0	06/09/2016	ND	211	105	200	1.88	
EXT DRO >C28-C35	428	50.0	06/09/2016	ND					

Surrogate: 1-Chlorooctane 86.7 % 35-147

Surrogate: 1-Chlorooctadecane 130 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 06/08/2016
Reported: 06/14/2016
Project Name: PLU #261 TANK BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PLU 261 SP 8 2' (H601254-02)

BTX 8260B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	<0.050	0.050	06/10/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.050	0.050	06/10/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	<0.150	0.150	06/10/2016	ND	6.55	109	6.00	0.681	
Total BTX	<0.300	0.300	06/10/2016	ND					

Surrogate: Dibromofluoromethane 104 % 90.4-111

Surrogate: Toluene-d8 97.4 % 85.3-114

Surrogate: 4-Bromofluorobenzene 104 % 80.1-121

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/09/2016	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/09/2016	ND	206	103	200	0.676	
DRO >C10-C28	937	50.0	06/09/2016	ND	211	105	200	1.88	
EXT DRO >C28-C35	371	50.0	06/09/2016	ND					

Surrogate: 1-Chlorooctane 84.6 % 35-147

Surrogate: 1-Chlorooctadecane 139 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form
LAB Cardinal

Bill To

ANALYSIS REQUEST

Company Name		Environmental Plus, Inc.		BOPCO, L.P. Attn: Brad Blevins 522 W. Mermod, Suite 704 Carlsbad, NM 88220	
EPI Project Manager		Daniel Dominguez			
Mailing Address		P.O. BOX 1558			
City, State, Zip		Eunice New Mexico 88231			
EPI Phone#/Fax#		575-394-3481 / 575-394-2601			
Client Company		BOPCO			
Facility Name		PLU 261 Tank Battery			
Location					
AFE#					
EPI Sampler Name		David Robinson			

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING		ANALYSIS REQUEST									
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:		ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>
H0601254	1 PLU 261 SP 8 1ft	G	1			X					X											
	2 PLU 261 SP 8 2ft	G	1			X					X											
	3																					
	4																					
	5																					
	6																					
	7																					
	8																					
	9																					
	10																					

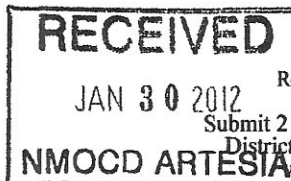
Relinquished by:	Date	Received By:	Date
David Robinson	6-8-16	David Robinson	6-8-16
Time	0700	Time	0700
Relinquished by:	Date	Received By: (lab staff)	Date
David Robinson	6-8-16	David Robinson	6-8-16
Time	11:01	Time	11:01
Delivered by:	Sample Cool & Intact	Checked By:	
2.40	Yes	David Robinson	

NOTES: E-mail results to: ddominguezepi@gmail.com & bblevins@basspet.com

ATTACHMENT V
Copy of Initial NMOCD Form C-141's
Final C-141's

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

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

30-015-34877

Release Notification and Corrective Action

NMLB 1204534263

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company BOPCO, L.P.	260737	Contact Tony Savoie
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Telephone No. 432-556-8730
Facility Name Poker Lake Unit #261		Facility Type E&P

Surface Owner Federal	Mineral Owner Federal	Lease No. NMLC-068431
-----------------------	-----------------------	-----------------------

LOCATION OF RELEASE

Unit Letter J	Section 21	Township 24S	Range 30E	Feet from the 1980	North/South Line South	Feet from the 1880	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude N 32.201420 Longitude W 103.883103

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 700 bbls of crude oil and 10 bbls of produced water	Volume Recovered: 600 bbls total fluid
Source of Release: Temporary Gas Purge Tank.	Date and Hour of Occurrence 1/19/12 Approximately 8:00 p.m.	Date and Hour of Discovery 1/19/12 12:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Emergency Phone extension #104	
By Whom? Tony Savoie	Date and Hour 1/20/12 10:26 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A new well was brought onto the production at the PLU-261 battery, the new well went on gas surge and pushed all of the oil out of the production vessels into a temporary gas purge tank which overflowed. The well was shut in and the gas problem was corrected.

Describe Area Affected and Cleanup Action Taken.* The area around the lined tank containment was enclosed with an earthen berm which kept all of the spilled fluid on the well pad and tank battery pad. An area measuring approximately 18,000 sq. ft. was affected by the spill. The free oil was recovered with a vacuum truck and the heavily saturated soil around the process vessels and lines was hand dug and stockpiled on-site. A sampling event is scheduled for the week of 1/30/12 to determine the vertical extent around the process equipment and under the lined containment.

The Site remediation for the produced water and crude oil spill will follow the NMOCD guidelines for leaks and spills.

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

Signature: Tony Savoie	OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie	Approved by District Supervisor Signed By: Mike Brannan	
Title: Waste Mgmt. & Remediation Specialist	Approval Date: FEB 14 2012	Expiration Date:
E-mail Address: TASavoie@BassPet.com	Conditions of Approval: Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:	Attached <input type="checkbox"/>
Date: 1/30/12 Phone: 432-556-8730	3/14/12	

* Attach Additional Sheets If Necessary

PROPOSAL NOT LATER THAN:

2 RP-1012

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

nHMP 1416329456 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. <i>260737</i>	Contact: Tony Savoie	
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329	
Facility Name: PLU-261 Tank Battery	Facility Type: Exploration and Production	
Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-34877

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	21	24S	30E	1980	SOUTH	1880	EAST	EDDY

Latitude N 32.201808 Longitude W 103.883505

NATURE OF RELEASE

Type of Release: Crude oil and produced water	Volume of Release: 40 bbls crude oil and 50 bbls produced water	Volume Recovered: 20 bbls crude oil and 6 bbls produced water
Source of Release: Tank battery flow line header	Date and Hour of Occurrence: 6/3/14 at approximately 9:00 a.m.	Date and Hour of Discovery: 6/3/14 at 11:19 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher and Jim Amos via e-mail	
By Whom? Tony Savoie	Date and Hour: 6/3/14 at 1:49 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 09 2014

RECEIVED

Describe Cause of Problem and Remedial Action Taken.*

The crews were performing line integrity test on the flow lines coming into the tank battery. After completion of the test on the PLU-324H a valve was left closed on the header and the well was put back on line. The excessive pressure blew out one of the Victaulic gaskets on the well header. The wells were shut in and the gasket was replaced.

Describe Area Affected and Cleanup Action Taken.* The release impacted approximately 2800 sq.ft. of tank battery pad area around the process equipment. This spill is in the same place as a previous spill that had been partially excavated and sampled for compliance. Reference 2RP- 1012. The saturated soil will be excavated by hand and a hydro-vac as far as practicable around the process lines and vessels. Samples will be collected after the soil removal to determine the total vertical and horizontal extent of the spill.

A summary of the activities will be submitted following the completion of the field work.

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

OIL CONSERVATION DIVISION

Signature: <i>Tony Savoie</i>	Approved by Environmental Specialist: <i>[Signature]</i>	
Printed Name: Tony Savoie	Approval Date: <i>6/12/14</i>	Expiration Date: <i>NA</i>
Title: Waste Management and Remediation Specialist	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 7/12/14	
E-mail Address: tasavoie@basspet.com	Attached <input type="checkbox"/>	
Date: 6/9/14	Phone: 432-556-8730	

* Attach Additional Sheets If Necessary

2RP-2333

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

State of New Mexico
Energy Minerals and Natural Resources

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

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 16 2015

Form C-141
Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

NAB1510651955

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. <u>260737</u>	Contact: Bradley Blevins
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU #261	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. <u>30-015-34877</u>
------------------------	------------------------	-----------------------------

LOCATION OF RELEASE

Unit Letter J	Section 21	Township 24S	Range 30E	Feet from the 1980	North/South Line South	Feet from the 1880	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude: N 32.201427° Longitude: W 103.883681°

NATURE OF RELEASE

Type of Release: crude oil and produced water	Volume of Release: 30 bbls oil and 71 bbls water	Volume Recovered: 30 bbls of fluid
Source of Release: header check valve failure	Date and Hour of Occurrence: 4/10/15 @ am	Date and Hour of Discovery: 4/10/15 @ am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, NMOCD	
By Whom? Bradley Blevins	Date and Hour: 4/10/15 @ 7:34 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Describe Cause of Problem and Remedial Action Taken.* A four inch check valve on the header failed and released 71 barrels of produced water and 30 barrels of oil to the ground surface, there was also several areas where the fluid did get off the well pad. Area one was north of the battery and pipeline valve settings, area two was an overspray area to the northwest of the battery.

Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 18,900 sq. ft. of pad area, caliche lease road and pasture area. The release also misted approximately 11,500 sq. ft. of pasture. BOPCO plans to spray the overspray area with a Micro-Blaze mix and have a backhoe conduct surface scrape on the areas that are accessible. The spill will be cleaned up in accordance to the NMOCD and BLM remediation guidelines.

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

Signature: <u>Bradley Blevins</u>	OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins	Approved by Environmental Specialist: <u>[Signature]</u>	
Title: Assistant Remediation Foreman	Approval Date: <u>4/16/15</u>	Expiration Date: <u>N/A</u>
E-mail Address: bblevins@basspet.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/>	
Date: <u>4-16-15</u> Phone: 432-214-3704	SUBMIT REMEDIATION PROPOSAL NO <u>5/16/15</u>	

* Attach Additional Sheets If Necessary

LATER THAN: 5/16/15

2RP-2957

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

Name of Company: BOPCO, L.P.		OPERATOR		<input type="checkbox"/> Initial Report	<input checked="" type="checkbox"/> Final Report
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Contact: Bradley Blevins			
Facility Name: PLU #261; 2RP# 1012		Telephone No. 575-887-7329			
Surface Owner: Federal		Mineral Owner: Federal		API No. 30-015-34877	
Facility Type: Exploration and Production					

LOCATION OF RELEASE

Unit Letter J	Section 21	Township 24S	Range 30E	Feet from the 1980	North/South Line South	Feet from the 1880	East/West Line East	County Eddy
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Latitude: N 32.201420° Longitude: W 103.883103°

NATURE OF RELEASE

Type of Release: crude oil and produced water	Volume of Release: 700 bbls oil, 10 bbls produced water	Volume Recovered: 600 bbl total
Source of Release: Temporary Gas Purge Tank	Date and Hour of Occurrence: 1/19/12 @ approx. 8:00 pm	Date and Hour of Discovery: 1/20/12 @ 12:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Emergency Phone extension #104	
By Whom? Tony Savoie	Date and Hour: 1/20/12 10:26 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		


Describe Cause of Problem and Remedial Action Taken.*

A new well was brought onto the production at the PLU-261 battery, the new well went on gas surge and pushed all of the oil out of the production vessels into a temporary gas purge tank which overflowed. The well was shut in and the gas problem was corrected.

Describe Area Affected and Cleanup Action Taken.*

The area around the lined tank containment was enclosed with an earthen berm which kept all of the spilled fluid on the well pad and tank battery pad. An area measuring approximately 18,000 sq. ft. was affected by the spill. The free oil was recovered with a vacuum truck and the heavily saturated soil around the process vessels and lines was hand dug and stockpiled on-site. Samples were collected and sent for testing. Based on laboratory data and NMOCD approval the contaminated soil has been excavated and hauled to a state approved disposal facility, and the excavation backfilled with clean soil.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins		Approved by Environmental Specialist:	
Title: Assistant Remediation Foreman		Approval Date:	Expiration Date:
E-mail Address: bblevins@basspet.com		Conditions of Approval:	
Date: 6-30-16 Phone: 432-214-3704		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

Name of Company: BOPCO, L.P.		OPERATOR		<input type="checkbox"/> Initial Report	<input checked="" type="checkbox"/> Final Report
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Contact: Bradley Blevins			
Facility Name: PLU #261 Tank Battery; 2RP#2333		Telephone No. 575-887-7329			
Surface Owner: Federal		Mineral Owner: Federal		API No. 30-015-34877	
Facility Type: Exploration and Production					

LOCATION OF RELEASE								
Unit Letter J	Section 21	Township 24S	Range 30E	Feet from the 1980	North/South Line South	Feet from the 1880	East/West Line East	County Eddy

Latitude: N 32.201808° Longitude: W 103.883505°

NATURE OF RELEASE

Type of Release: crude oil and produced water	Volume of Release: 40 bbls oil, 50 bbls produced water	Volume Recovered: 20 bbl oil 6 bbls produced water
Source of Release: Tank Battery flow line header	Date and Hour of Occurrence: 6/3/14 @ approx. 9:00 am	Date and Hour of Discovery: 6/3/14 @ 11:19 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher and Jim Amos via email	
By Whom? Tony Savoie	Date and Hour: 6/3/14 1:49 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		

Describe Cause of Problem and Remedial Action Taken.*

The crews were performing line integrity test on the flow lines coming into the tank battery. After completion of the test on the PLU-324H a valve was left closed on the header and the well was put back on line. The excessive pressure blew out one of the Victaulic gaskets on the well header. The wells were shut in and the gasket was replaced.

Describe Area Affected and Cleanup Action Taken.*

The release impacted approximately 2800 sq. ft. of tank battery pad area around the process equipment. This spill is in the same place as a previous spill that had been partially excavated and sampled for compliance. Reference 2RP- 1012. The saturated soil will be excavated by hand and a hydro-vac as far as practicable around the process lines and vessels. Samples were collected and sent for testing. Based on laboratory data and NMOCD approval the contaminated soil has been excavated and hauled to a state approved disposal facility, and the excavation backfilled with clean soil.

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

Signature: <u>Bradley Blevins</u>		OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins		Approved by Environmental Specialist:	
Title: Assistant Remediation Foreman		Approval Date:	Expiration Date:
E-mail Address: bblevins@basspet.com		Conditions of Approval:	
Date: <u>6-30-16</u> Phone: 432-214-3704		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action


Name of Company: BOPCO, L.P.		OPERATOR		<input type="checkbox"/> Initial Report	<input checked="" type="checkbox"/> Final Report
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Contact: Bradley Blevins			
Facility Name: PLU #261; 2RP#2957		Telephone No. 575-887-7329			
Surface Owner: Federal		Mineral Owner: Federal		API No. 30-015-34877	
Facility Type: Exploration and Production					

LOCATION OF RELEASE

Unit Letter J	Section 21	Township 24S	Range 30E	Feet from the 1980	North/South Line South	Feet from the 1880	East/West Line East	County Eddy
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Latitude: N 32.201427° Longitude: W 103.883681°

NATURE OF RELEASE

Type of Release: crude oil and produced water	Volume of Release: 30 bbls oil, 71 bbls produced water	Volume Recovered: 30 bbl total
Source of Release: header check valve failure	Date and Hour of Occurrence: 4/10/15 @ am	Date and Hour of Discovery: 4/10/15 @ am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, NMOCD	
By Whom? Bradley Blevins	Date and Hour: 4/10/15 7:34 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Describe Cause of Problem and Remedial Action Taken.* A four inch check valve on the header failed and released 71 barrels of produced water and 30 barrels of oil to the ground surface, there was also several areas where the fluid did get off the well pad. Area one was north of the battery and pipeline valve settings, area two was an overspray area to the northwest of the battery.		
Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 18,900 sq. ft. of pad area, caliche lease road and pasture area. The release also misted approximately 11,500 sq. ft. of pasture. BOPCO plans to spray the overspray area with a Micro-Blaze mix and have a backhoe conduct surface scrape on the areas that are accessible. Samples were collected and sent for testing. Based on laboratory data and NMOCD approval the contaminated soil has been excavated and hauled to a state approved disposal facility, and the excavation backfilled with clean soil.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins	Approved by Environmental Specialist:	
Title: Assistant Remediation Foreman	Approval Date:	Expiration Date:
E-mail Address: bblevins@basspet.com	Conditions of Approval:	
Date: <u>6-30-16</u> Phone: 432-214-3704	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary