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REMEDIATION SUMMARY

AND RISK-BASED SITE CLOSURE REQUEST

BOPCO, LP

Hudson Federal Battery #1 Eddy County, New Mexico Unit Letter "F" (SE/NW), Section 1, Township 23 South, Range 30 East Latitude 32.336050° North, Longitude 103.836788° West NMOCD Reference # 2RP-1732

Prepared For:

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

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

December 2014

Joel W. Lowry Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Risk-Based Site Closure Request* for the release site known as Hudson Federal Battery #1. The legal description of the release site is Unit Letter "F" (SE/NW), Section 1, Township 23 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.336050° North latitude and 103.836788° West longitude. The property affected by the release is owned by the United States Department of the Interior and administered by the Bureau of Land Management (BLM). A "Site Location Map" is provided as Figure 1.

On May 17, 2013, BOPCO discovered a release at the Hudson Federal Battery #1. The "Release Notification and Corrective Action" (Form C-141) indicated a one quarter-inch (1/4") plug vibrated out of a water transfer pump resulting in the release of approximately fifteen barrels (15 bbls) of produced water. A majority of the release was confined to the zero-perm tank battery containment; approximately one thousand, eight hundred square feet (1,800 ft²) of tank battery pad and four hundred square feet (400 ft²) of pasture were affected by produced water that sprayed outside the containment. During initial response activities the plug was replaced, and approximately eight barrels (8 bbls) of free-standing fluid were recovered. The Form C-141 is provided as Appendix A.

While addressing the immediate release, a BOPCO drilling reserve pit that was installed in 1974 was discovered beneath the well pad immediately north of the release area. The drilling reserve pit cap was compromised in 2000, when BOPCO extended the well pad toward the north and drilled the Hudson Federal #7 within its central boundary. The reserve pit was further compromised when a pipeline was laid through the pit boundary in the pasture to the west of the site. Chloride migration from the reserve pit installed in 1974 has impacted the well pad above the pit and has washed into the pasture west of the location. Chloride field test results suggested affected soils were impacted above NMOCD regulatory guidelines and were in need of remediation. General photographs of the release site are provided as Appendix D.

In an email dated July 15, 2014, BOPCO representatives requested BLM permission to install a burial trench at the site to encapsulate a portion of the excavated reserve pit materials in accordance with 19.15.17 New Mexico Administrative Code (NMAC); the request was subsequently approved by a representative of the BLM's Carlsbad District Office.

On July 16, 2014, BOPCO submitted a *Proposal for Installation of Burial Trench* (Work Plan) to the NMOCD Artesia District Office, requesting permission to install a burial trench at the site to encapsulate a portion of the excavated reserve pit materials in accordance with 19.15.17 NMAC. In addition, BOPCO proposed to remediate affected areas on the well pad by excavating them to two feet (2') below ground surface (bgs), and installing a twenty-millimeter (20-millimeter) polyethylene liner on top of impacted soils left in-situ. This engineering control is designed to inhibit the vertical migration of contaminants left in-situ, as well as mitigate any future releases on the well pad. A "Pit, Below-Grade Tank, or Proposed Alternative Method Permit of Closure Plan Application" (Form C-144) is provided as Appendix B. The "Well Completion or Recompletion Report and Log" (Form C-105) is provided as Appendix C.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 1, Township 23 South, Range 30 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred (200) to two hundred and twenty-five feet (225') bgs. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

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

NMOCD guidelines indicate the Hudson Federal Battery #1 release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/Kg (ppm)
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) 50 mg/Kg (ppm)
- Total Petroleum Hydrocarbons (TPH) 5,000 mg/Kg (ppm)

The NMAC does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 16, 2014, Basin began excavating impacted soil from the affected area on the caliche well pad. As per the NMOCD-approved Work Plan, the floor of the excavation was advanced to approximately two feet (2') bgs. The excavation sidewalls were advanced until concentrations of BTEX, TPH and chloride were less than NMOCD regulatory guidelines. Excavated material associated with the 1974 drilling reserve pit was segregated and stockpiled on-site for encapsulation within the burial trench. Excavated material associated with the immediate release and affected pasture area was hauled to an NMOCD-approved landfill.

On June 20, 2014, two (2) confirmation soil samples (ESW #1 and ESW #2) were collected from the sidewalls of the excavated area on the caliche well pad and submitted to Cardinal Laboratories, of Hobbs, New Mexico, for analysis of chloride concentrations. Laboratory analytical results indicated soil samples ESW #1 and ESW #2 exhibited chloride concentration of 576 ppm and 672 ppm, respectively. A summary of "Concentrations of Benzene, BTEX, TPH and Chloride in Soil" is provided in Table 1. Laboratory analytical reports are provided as Appendix E. Sample locations are depicted on Figure 2, "Site & Sample Location Map". A "Site Overview Map" is provided as Figure 3.

On July 23, 2014, three (3) soil samples (ESW #3, ESW #4 and SSW #3) were collected from the sidewalls of the excavated area on the caliche well pad and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 1,250 ppm for soil sample ESW #3 to 3,600 ppm for soil sample SSW #3. Further excavation in the area represented by soil samples ESW #3 and ESW #4 was limited due to the presence of a widely used oilfield access road.

August 7, 2014, Basin constructed a deep burial trench at the location, west of the 1974 drilling reserve pit and the impacted well pad within the affected pasture. The final dimensions of the burial trench were one hundred feet (100') in length, thirty feet (30') in width and fourteen feet (14') in depth. The burial trench was fitted with a twenty-millimeter (20-millimeter), string reinforced linear low density polyethylene liner in accordance with Subsection K of 19.15.17.11 NMAC as outlined in Section 5.C of the approved work plan. The burial trench was placed in the southern portion of the affected pasture, in an area chloride field tests suggested had not been impacted above NMOCD regulatory guidelines beyond four feet (4') bgs. Displaced non-impacted soil was stockpiled on site for use as backfill. A "Site Overview Map" is provided as Figure 3.

On August 18, 2014, seven (7) soil samples [SSW #1, SSW #2 (In-Situ), SSW #3(b), SSW #4, WSW #1, WSW #2 and WSW #3] were collected from the sidewalls of the excavated area on the caliche well pad and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory method detection limit (MDL) for soil sample SSW #1 and WSW #1 to 6,660 ppm for soil sample SSW #2 (In-Situ). Further excavation in the area represented by soil sample SSW #2 (In-Situ) was limited due to the presence of the Hudson Federal Battery #1 above-ground storage tanks and containment. Soil sample WSW #2 characterizes affected soil left in-situ were the release flow path crossed BOPCO's high pressure natural gas pipeline.

October 2, 2014, Basin began excavating impacted soil within the affected pasture area. The floor of the excavation was advanced to approximately four (4) to five feet (5') bgs. The excavation sidewalls were advanced until field test results suggested concentrations of BTEX, TPH and chloride were less than NMOCD regulatory guidelines. Excavated soils were hauled to an NMOCD-approved disposal facility.

On October 6, 2014, three (3) five-point composite soil samples (Burial Trench WC #1, Burial Trench WC #2 and Burial Trench WC #3) were collected from the stockpiled material excavated from the 1974 drilling reserve pit and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples. Analytical results indicated TPH concentrations ranged from less than the laboratory MDL for soil samples Burial Trench WC #2 and Burial Trench WC #3 to 77.0 ppm for soil samples Burial Trench WC #1. Chloride concentrations ranged from 2,800 ppm for soil sample Burial Trench WC #3 to 5,440 ppm for soil sample Burial Trench WC #1, Burial Trench WC #2 and Burial Trench WC #2. Based on laboratory analytical results, soil represented by soil samples Burial Trench WC #1, Burial Trench WC #3 to 5.B of the approved Work Plan. Upon receiving laboratory analytical results, approximately one thousand, five hundred cubic yards (1,500 yd³) of material excavated from the top two feet (2') of

BOPCO's 1974 drilling reserve pit was placed within the burial trench for encapsulation. Upon filling the burial trench with the designated material, the outer edges of the liner were folded over, overlapping the waste material in the trench.

On October 8, 2014, seven (7) soil samples (Past. SSW#1, Past. SSW #2, Past. SSW #3, Past. ESW #1, Past. ESW #2, Past. WSW #1 and Past. WSW #2) were collected from the sidewalls of the excavated area within the pasture and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil samples Past. SSW #3 and Past. ESW #1 to 704 ppm for soil sample Past. ESW #2.

On October 16, 2014, five (5) soil samples (Past. NSW #1, Past. NSW #2, Past. NSW #3, Past. WSW #4 and Past. ESW #3) were collected from the sidewalls of the excavated area within the pasture and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 416 ppm for soil sample Past. ESW #3 to 735 ppm for soil sample Past. NSW #2.

On October 21, 2014, Basin advanced a delineation trench (TT-1) in the northern portion of the affected pasture within the area exhibiting the highest concentrations of chloride at four feet (4') bgs. During the advancement of the delineation trench, two (2) soil samples (TT-1a @ 8' and TT-1a @ 10') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 336 ppm for soil sample TT-1a @ 8' to 192 ppm for soil sample TT-1a @ 10'. Soil sample TT-1a @ 8' was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. Based on laboratory analytical results, it was determined that vertical delineation had been achieved within the affected pasture area.

On October 22, 2014, Basin installed a twenty millimeter (20 mm) polyethylene liner over the overlapped trench liner at approximately four feet (4') bgs, as per Section 5.C of the approved Work Plan. The polyethylene liner was extended to the north, at the same grade, atop soils exhibiting chloride concentrations above NMOCD regulatory guidelines characterized by soil samples TT-1a @ 8' and TT-1a @ 10'. This engineering control was designed to prevent the infiltration of water into the burial trench and mitigate the vertical migration of contaminants left in-situ. Upon installing the NMOCD-approved liner, the excavation was backfilled with non-impacted material and contoured to match the surrounding topography.

On October 27, 2014, as per the NMOCD, the excavation on the caliche well pad was advanced toward the northeast. Two (2) soil samples [ESW #4(b) and NE Corner] were collected from the sidewalls of the excavated area on the caliche well pad and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 1,260 ppm for soil sample NW Corner to 1,440 ppm for soil sample ESW #4(b). Further excavation to the northeast was limited due to the presence of a widely used oilfield access road. NMOCD granted permission to leave the remaining affected soil in-situ.

On November 3, 2014, one (1) soil sample [1974 Pit Floor (In-Situ)] was collected from the floor of the excavation within the 1974 drilling reserve pit to characterize soils left in-situ. The collected

soil sample was submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX and TPH concentrations were less than the appropriate laboratory MDL. The concentration chloride was 5,730 ppm. In addition, one (1) five-point composite soil sample (B.T Stockpile) was collected from the stockpiled soil excavated from the burial trench location. The collected soil sample was submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX and TPH concentrations were less than the appropriate laboratory MDL. The concentration of chloride was 192 ppm. Based on laboratory analytical results, material represented by soil sample B.T. Stockpile was deemed suitable for use as backfill.

A twenty millimeter (20 mm) polyethylene liner was installed in the floor of the excavated area on the caliche well pad at approximately two feet (2') bgs. The liner was installed atop soils exhibiting chloride impact above NMOCD regulatory guidelines related to the May 17, 2013, release and extended toward the north to "re-cap" the 1974 drilling reserve pit and the southern portion of the 2000 drilling reserve pit. The engineering control was designed to mitigate the vertical migration of contaminants left in-situ as well as mitigate any future releases on the well pad. Upon installing the NMOCD-approved liner, the excavation was backfilled with non-impacted material and contoured to meet the needs of the well pad.

On November 19, 2014, as per the approved Work Plan, Basin recapped the barren area above the 2000 reserve pit. A twenty millimeter (20 mm) polyethylene liner was installed atop the barren area and anchored at its edges. This engineering control was designed to mitigate the vertical migration of contaminants left in-situ. Upon installing the liner, a one and one-half foot (1.5') layer of clean topsoil was installed above the liner and contoured to match the surrounding topography.

The excavated portion on the caliche well pad characterized by the original release and 2000 drilling reserve pit measured approximately one hundred and twenty (120) to two hundred and ten feet (210') in width, two hundred and forty feet (240') in length and two feet (2') in depth. The excavated area within the affected pasture measured approximately sixty-five (65) to one hundred and thirty feet (130') in width, one hundred and eighty feet (180') in length and four (4) to five feet (5') in depth. A barren area measuring approximately seventy-five feet (75') in width and one hundred and thirty feet (130') in length associated with the 2000 drilling reserve pit was lined and capped with approximately one and one half feet (1.5') of clean topsoil. Affected areas outside the well pad will be seeded in accordance with the BLM.

Between June 17 and November 3, 2014, approximately five thousand, six hundred and sixty cubic yards (5,660 yd³) of impacted material was transported to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories, Inc., in Hobbs, New Mexico, for BTEX, TPH and/or chloride analyses using the methods described below:

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

4.2 Decontamination of Equipment

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

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Remediation activities at the Hudson Federal #1 Tank Battery release site were conducted in accordance with the NMOCD-approved *Proposal for Installation of Burial Trench*. Confirmation soil samples were submitted to an NMOCD-approved laboratory. Based on the results of confirmation soil samples and the installation of approved engineering controls, Basin recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary and Risk-Based Site Closure Request* and request the NMOCD grant site closure to the Hudson Federal #1 Tank Battery release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

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

7.0 **DISTRIBUTION:**

- Copy 1: Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 2) 1301 E. Grand Avenue Artesia, NM 88210
- Copy 2: James Amos Bureau of Land Management 602 E. Greene Street Carlsbad, New Mexico 88220
- Copy 3: Tony Savoie BOPCO, LP 522 W. Mermod, Suite 704 Carlsbad, NM 88220
- Copy 4: Basin Environmental Service Technologies, LLC P.O. Box 301 Lovington, NM 88260







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

BOPCO, LP HUDSON FEDERAL BATTERY EDDY COUNTY, NEW MEXICO NMOCD REF# 2RP-1732

				METHOD: E	EPA SW 846	-8021B, 5030	ME	THOD: 80	TOTAL	4500 CI-B			
SAMPLE LOCATION	DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
ESW #1	2'	6/20/2014	In-Situ	-	-	-	-	-	-	-		-	576
ESW #2	2'	6/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	672
ESW #3	2'	7/23/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,250
ESW #4	2'	7/23/2014	Excavated	-	-	-	-	-	-	-	-	-	2,360
SSW #3	2'	7/23/2014	Excavated	-	•	-	-	-	-	-	-	-	3,600
0011/ #1	01	0/10/0014	In Oite										10.0
SSW #1	2	8/18/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
55W #2 (III-5IIU)	2	0/10/2014	In-Situ	-	-	-	-	-	-	-	-	-	0,000
SSW #3 (D) SSW #4	2	8/18/2014	In-Situ	-	-	-	_	-	-	-		-	656
WSW #1	2'	8/18/2014	In-Situ	-	-	-	-	-	-	_	-		<16.0
WSW #2	2'	8/18/2014	In-Situ	-	-	-	-	-	-	-	-	-	5,760
WSW #3	2'	8/18/2014	In-Situ	-	-	-	-	-	-	-	-	-	480
	_												
Burial Trench WC #1	N/A	10/6/2014	Encapsulated	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	58.3	18.7	77.0	5,360
Burial Trench WC #2	N/A	10/6/2014	Encapsulated	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	5,440
Burial Trench WC #3	N/A	10/6/2014	Encapsulated	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	2,800
Past. SSW #1	3'	10/8/2014	In-Situ	-	-	-	-	-	-	-	-	-	96.0
Past. SSW #2	3'	10/8/2014	In-Situ	-	-	-	-	-	-	-	-	-	144
Past. SSW #3	3'	10/8/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
Past. ESW #1	3'	10/8/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
Past. ESW #2	3'	10/8/2014	In-Situ	-	-	-	-	-	-	-	-	-	/04
Past. WSW #1	3	10/8/2014	In-Situ	-	-	-	-	-	-	-	-	-	160
Past. WSW #2	3	10/8/2014	in-Situ	-	-	-	-		-	-	-	-	64.0
Poot NSW #1	21	10/16/2014	In Situ										609
Past NSW #2	3'	10/16/2014	In-Situ	-	-	-	-	-	-	-	-	-	735
Past NSW #3	3'	10/16/2014	In Oitu	-	-	-	-	-	-	_	-	-	688
Past WSW #4	3'	10/16/2014	In-Situ	-	-	-	-	-	-	-	-	-	432
Past. ESW #3	3'	10/16/2014	In-Situ	-	-	-	-	-	-	-	-	-	416
TT-1a@8'	8'	10/21/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	336
TT-1a@10'	10'	10/21/2014	In-Situ	-	-	-	-	-	-	-	-	-	192
ESW #4 (b)	2'	10/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,440
NE Corner	2'	10/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,260
			-										
1974 Pit Floor (In-Situ)	2'	11/3/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	5,730
B.T. Stockpile	N/A	11/3/2014	Backfill	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
				- 10								E 0.05	1 000
NMOCD Criteria				10				50				5,000	1,000

- = Not analyzed.

District | 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

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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. NMOCD ARTES Adance with 19.15.29 NMAC.

RECEIVED JUL 1 5 2013

Form C-141 Revised August 8, 2011

1220 S. St. Fran	icis Dr., Sant	a Fe, NM 8750	5	Sa	nta F	e, NM 875	05					
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nJMW	1319	93114	2			OPERA '	ГOR		🖾 Initia	al Report		Final Report
Name of Co	ompany: B	OPCO, L.P.	2	60737		Contact: To	ny Savoie					
Address: 52	22 W. Mer	mod, Suite 7	04 Carls	bad, N.M. 88220		Telephone 1	No. 575-887-73	29				
Facility Nat Hudson Fec	me: Hudso leral well #	n Federal Ba	attery #1	On Pad with		Facility Typ	e: Exploration	and Pro	duction			
Surface Ow	ner: Feder	al	Mineral O	wner:	Federal	·		API No	. 30-015-3	1513		
				LOCA	TIO	N OF RE	LEASE					
Unit Letter F	Section 1	Township 23S	Range 30E	Feet from the	North	/South Line	Feet from the	East/V	Vest Line	County Eddy		
	L		<u> </u>	Latitude <u>N 32.</u>	33605	0_Longitud	e <u>W 103.83678</u>	<u>8</u>		·		
				NAT	URE	OF REL	EASE					
Type of Rele	ase: Produc	ed water				Volume of	Release: 15 bbls		Volume R	ecovered: 8	bbls]
Source of Re	lease: Wate	r transfer pum	р			Date and F 5/17/13 tin	lour of Occurrenc	ce	Date and 5/17/13 9	Hour of Dis :00 a.m.	covery	
Was Immedia	ate Notice (Given?	Yes [] No 🛛 Not Re	quired	If YES, To	Whom?	I.				
By Whom?						Date and H	our	· · · -				
Was a Water	course Reac	hed?	Yes 🗵	No		If YES, Volume Impacting the Watercourse.						
Describe Cau A ¼" plug vil replaced.	se of Proble brated out o	em and Remec f a water trans	lial Action	n Taken.* causing water to s	pill ins	ide of the 0 pe	erm containment a	and spra	yed outside	on the grou	ind. Th	e plug was
Approximatel The spill area	ly 1800 sq. : will be rem	ft of tank batte	ery pad an ding to the	d approximately 4 e NMOCD and BL	00 sq. i M rem	ft. of pasture. rediation guid	The free standing elines.	; fluid wa	is recovere	d.		
I hereby certific regulations all public health should their of or the environ federal, state,	fy that the in l operators a or the envir perations ha ment. In ac or local law	nformation giv are required to onment. The ave failed to ad Idition, NMO is and/or regul	ven above report an acceptanc dequately CD accept ations.	is true and comple d/or file certain rel e of a C-141 repor investigate and rer tance of a C-141 re	te to the ease not t by the nediate port do	ne best of my otifications an e NMOCD ma e contamination bes not relieve	knowledge and ut d perform correct rked as "Final Re on that pose a thre the operator of re	nderstand tive action eport" do eat to gro esponsib	d that pursu ons for rele es not relie und water, ility for co	uant to NMC ases which i eve the oper- surface wat mpliance w	OCD ru nay en ator of er, hun ith any	les and Janger liability nan health other
						OIL CONSERVATION DIVISION						
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Printed Name:	: Tony Savo	oie					11 4 0 2012		··· Dy <u>····</u>			·····
Title: Waste M	lanagement	and Remedia	tion Spec	ialist		ال Approval Date	10 2013	E.	xpiration D	Pate:		
E-mail Addres	ss: tasavoie	@basspet.com			(Conditions of Approval: Remediation per OCD Rule & Guidelines, & Attached						
Date: 7/14/13			P	hone: 432-556-873	30	like approva	I by BLM. <u>SUBM</u>	IIT REM	EDIATION		<u></u>	104.0
Attach Additional Sheets If Necessary							1905AL NO LATE	20	ÏЗ	21/1	J	1752

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application						
Proposed Alternative Method Permit or Closure Plan Application Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Modification to an existing permit/or registration						
or proposed alternative method						
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request						
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.						
Operator: Bopco, L.P. OGRID #:						
Address:522 W. Mermod, Suite 704, Carlsbad, NM 88220						
Facility or well name:Hudson Federal Battery #1						
API Number:						
U/L or Qtr/QtrF Section1 Township23E Range30S County:Eddy						
Center of Proposed Design: Latitude32.336316° WGS84Longitude103.837358° WGS84 NAD: 1927 [] 1983						
Surface Owner: 🛛 Federal 🗌 State 🗌 Private 🗌 Tribal Trust or Indian Allotment						
Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume:bbl Dimensions: L x W x D						
Below-grade tank: Subsection 1 of 19.15.17.11 NMAC						
Volume:						
\Box Secondary containment with leak detection \Box Visible sidewalls liner 6-inch lift and automatic overflow shut-off						
\square Visible sidewalls and liner \square Visible sidewalls only \square Other						
Liner type: Thickness mil HDPE PVC Other						
4.						
Alternative Method:						
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.						
 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet 						
Alternate. Please specify						

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other

6.

7.

8.

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

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

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

- Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
- Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting						
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ⊠ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	□ Yes⊠ No □ NA					
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells						
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 						
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🛛 No					
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Topographic map 	🗌 Yes 🛛 No					
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗌 Yes 🛛 No					
Below Grade Tanks						
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No					
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No					
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)						
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	Yes No					
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	🗌 Yes 🗌 No					
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.	Yes No					

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No				
Temporary Pit Non-low chloride drilling fluid					
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No				
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No				
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No				
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No				
<u>Permanent Pit or Multi-Well Fluid Management Pit</u>					
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No				
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No				
 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No				
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No				
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach conv of design) API Number:					
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC					
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:					

^{12.} <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the d	ocuments are
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC	
<u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Flue	uid Management Pit
Proposed Closure Method: Waste Excavation and Removal	
 Waste Reinoval (Closure Note Systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial 	
Alternative Closure Method	3
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	attached to the
^{15.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P. 19.15.17.10 NMAC for guidance.	ce material are lease refer to
 Ground water is less than 25 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	□ Yes ⊠ No □ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes ⊠ No □ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	⊠ Yes □ No □ NA
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🛛 No
 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🛛 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🛛 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Yes ⊠ No Written confirmation or verification from the municipality; Written approval obtained from the municipality Yes ⊠ No Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Yes ⊠ No Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Yes ⊠ No Within a 100-year floodplain. Yes ⊠ No • FEMA map Yes ⊠ No 16. Yes ⊠ No 07-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Sting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation/Design Plan of Emporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropria					
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division □ Yes ⊠ No Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map □ Yes ⊠ No Within a 100-year floodplain. - FEMA map □ Yes ⊠ No 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. ∑ Yes ⊠ No 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. ∑ Yes ⊠ No 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. ∑ Yes ⊠ No 16. Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC ∑ 17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pal) - based upon the appropriate requirements of 19.15.17.13 NMAC ∑ 18. Protocols and Procedures - b					
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Yes ⊠ No Within a 100-year floodplain. FEMA map Yes ⊠ No 					
Pengineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Within a 100-year floodplain. FEMA map Yes ⊠ No Sting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Society: Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC					
Within a 100-year floodplain. Image: Yes I					
 ^{16.} On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 					
17. Operator Application Certification:					
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.					
Name (Print):Tony Savoie Title:EH&S Specialist					
Signature: Date: Date: Date:					
e-mail address:tasavoie@BassPet.com Telephone:575-887-7329					
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)					
OCD Representative Signature: Approval Date:					
Title: OCD Permit Number:					
^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.					
Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.					
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: []1927 [] 1983					

Operator Closure Certification:						
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.						
Name (Print):	Title:					
Signature:	Date:					
e-mail address:	Telephone:					

Colorit To Assess		P.C	T														
Two Copies State of N						New Mexico					Form C-105						
District I 1625 N. French Dr., Hobbs, NM 88240				Energy, Minerals and Natural Resources						Revised August 1, 2011 1. WELL API NO.							
811 S. First St., Ar	tesia, NM 8821	0		Oi	l Conserva	tion Division					30-015-31513						
1000 Rio Brazos R	d., Aztec, NM 8	87410		12	20 South S	St. Francis Dr.					ease TE		Γ	FD/IND	IAN		
District IV 1220 S. St. Francis	Dr., Santa Fe, I	NM 87505			Santa Fe, 1	NM 8	87505	505 3. State Oil & Gas Lease No.									
WELL	COMPLE	TION OF	REC	OMPL	ETION RE	POF		١C	LOG			1210		de la como	14		
4. Reason for fil	ing:										5. Lease Nam	e or U	nit Agreen	nent Na	ame		
COMPLET	ION REPOR	T (Fill in bo	xes #1 thro	ough #31	for State and Fe	e wells	only)				Well #7	ai Bai	tery #1 on	pao wi	th Hudso	in Federal	
C-144 CLOS #33; attach this a	SURE ATTA nd the plat to	CHMENT the C-144 cl	(Fill in box osure repor	kes #1 thr rt in acco	ough #9, #15 D rdance with 19.3	ate Rig 15.17.1	Releas	ed a /IA(and #32 and/ C)	/or	6. Well Numb	ber:					
7. Type of Comp	1 Type of Completion. □ NEW WELL □ WORKOVER □ DEEPENING □ PLUGBACK □ DIFFERENT RESERVOIR ☑ OTHER Trench burial of material from closed reserve pit																
8. Name of Operator 9. OGRID									sourceer repre-								
10. Address of O	perator									_	11. Pool name	or Wi	ildcat				
522 W.	Mermod, Sui	te #704, Carl	sbad, NM	88220													
12.Location	Unit Ltr	Section	Town	nship	Range	Lot			Feet from t	he	N/S Line	Feet	from the	E/W I	Line	County	
Surface:			_														
BH:	d 14 Data '	T.D. Basehar	1 16	Dete D'					D		(7.1.5						
15. Date spudde	a 14. Date	T.D. Reached	1 15. N/A	Date Rig	g Released			16.	Date Compl	leted	(Ready to Proc	luce)	17 R1	, Elevat , GR, e	tions (DF etc.)	and RKB,	
18. Total Measur	red Depth of V	Well	19.	Plug Bad	ek Measured De	pth	1	20.	Was Direct	iona	nal Survey Made? 21. Type Electric and Other Logs Run					ther Logs Run	
22. Producing In	terval(s), of th	nis completio	n - Top, Bo	ottom, Na	ame		1										
23				CAS	ING REC	ORI	D (Re	n	ort all str	rine	us set in w	e11)					
CASING SI	ZE	WEIGHT L	.B./FT.		DEPTH SET			HO	LE SIZE		CEMENTIN	G RE	CORD	AN	MOUNT	PULLED	
				-				_									
				-													
SIZE	TOP		BOTTOM	LIN	ER RECORD	(ENT	ENT SCREEN S			25. SIZ	25. IUBING RECORD SIZE DEPTH SET PACKER SET					ED SET	
							Joena		,	012			JI III OLI		TACK	DIC UE I	
26. Perforation	i record (inter	val, size, and	number)				27. A		D, SHOT,	FR	ACTURE, CE	MEN	IT, SQUE	EEZE,	ETC.		
							DELL										
								_									
28.	ation	Dra	J	41 J. / [7]		PRO	DDU	C.	FION			(5	1 01				
		P100			owing, gas uji, p	oumpin	g - Size	an	a type pump))	Well Status	s (Proc	1. or Shut-i	n)			
Date of Test	Hours Te	sted	Choke Siz	e	Prod'n For Test Period		Oil - I	Bbl		Ga	s - MCF	Wa	ater - Bbl.		Gas - C	Jil Ratio	
Flow Tubing Press	Flow Tubing Casing Pressure Calculated 24- Oil - Bbl. Press. Hour Rate		A	G	as -	- MCF		Water - Bbl.		Oil Grav	vity - A	PI - (Cor	r.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) 30. Test Witnessed By																	
31. List Attachm NMOCD Form (ents 2-144																
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.																	
33. If an on-site Center of on-site	33. If an on-site burial was used at the well, report the exact location of the on-site burial:																
I hereby certi	fy that the	informatio	n shown	on bot	h sides of this Printed	s form	is tru	ie d	and compl	lete	to the best of	of my	knowlea	lge an	d beliej	f	
Signature 🧹	1 8	my Z	antin	<u>ر</u>	Name To	ony Sa	avoie		Title	EH	&S Speciali	st	Date	12,	/1Z	/14	
E-mail Addre	ess TASa	voie@Bas	sPet.com	1												N N	

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Souther	astern New Mexico	Northv	Northwestern New Mexico				
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"				
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"				
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"				
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"				
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville				
T. Queen	T. Silurian	T. Menefee	T. Madison				
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert				
T. San Andres	T. Simpson	T. Mancos	T. McCracken				
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte				
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite				
T. Blinebry	T. Gr. Wash	T. Dakota					
T.Tubb	T. Delaware Sand	T. Morrison					
T. Drinkard	T. Bone Springs	T.Todilto					
T. Abo	T	T. Entrada					
T. Wolfcamp	Т.	T. Wingate					
T. Penn	Τ,	T. Chinle					
T. Cisco (Bough C)	Т.	T Permian					

OIL OR GAS SANDS OR ZONES

No. 1, from	No. 3, fromtoto
No. 2, fromtoto	No. 4, fromto

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	То	Thickness In Feet	Lithology	From	То	Thickness In Feet	Lithology
	1						



Photograph of the initial release at the Hudson Federal Battery #1 Remediation Site.



Photograph of the affected well pad and chloride leaching from the 1974 drilling reserve pit at the Hudson Federal Battery #1 Remediation Site.



Photograph of the barren area above the 2000 drilling reserve pit north of the well pad at the Hudson Federal Battery #1 Remediation Site.



Photograph of the affected pasture at the Hudson Federal Battery #1 Remediation Site.



Photograph excavation activities on the caliche well pad at the Hudson Federal Battery #1 Remediation Site.



Photograph excavation activities on the caliche well pad at the Hudson Federal Battery #1 Remediation Site.



Photograph of the excavated area within the affected pasture at the Hudson Federal Battery #1 Remediation Site.



Photograph of the deep burial trench at the Hudson Federal Battery #1 Remediation Site.



Photograph of the installation of the felt liner within the deep burial trench at the Hudson Federal Battery #1 Remediation Site.



Photograph of the installation of the polyethylene liner within the deep burial trench at the Hudson Federal Battery #1 Remediation Site.



Photograph of the disposition of material generated from the 2000 drilling reserve pit into the deep burial trench at the Hudson Federal Battery #1 Remediation Site.



Photograph of the encapsulated material from the 2000 drilling reserve pit at the Hudson Federal Battery #1 Remediation Site.



Photograph of the installation of polyethylene liner over the deep burial trench and risked-out portion of the affected pasture.



Photograph of the installation of polyethylene liner over the deep burial trench and risked-out portion of the affected pasture.



Photograph of the installation of the soil cover over the deep burial trench at the Hudson Federal Batter #1 Remediation Site.



Photograph of the installation of polyethylene liner over the 1974 drilling reserve pit on the caliche well pad at the Hudson Federal Battery #1 Remediation Site.



Photograph of the installation of the polyethylene liner over the barren area above the 2000 drilling reserve pit at the Hudson Federal Battery #1 Remediation Site.



Photograph of the installation of the polyethylene liner over the barren area above the 2000 drilling reserve pit at the Hudson Federal Battery #1 Remediation Site.



Photograph of the deep burial trench and affected pasture area after remediation activities at the Hudson Federal Battery #1 Remediation Site.



Photograph of the affected well pad area at the Hudson Federal Battery #1 after remediation activities.



Photograph of the affected well pad area at the Hudson Federal Battery #1 after remediation activities.



Photograph of the reclaimed area north of the caliche well pad at the Hudson Federal Battery #1 Remediation Site.



June 26, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: HUDSON FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/23/14 11:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

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:	06/23/2014	Sampling Date:	06/20/2014
Reported:	06/26/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: ESW #1 (H401873-01)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/24/2014	ND	416	104	400	0.00	

Sample ID: ESW #2 (H401873-02)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/24/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name:	ompany Name: Basin Environmental Service Technologies, LLC							BILL TO ANALYSIS REQUES						QUES		 	-							
Project Manager	Joel Lowry							Ρ.0	D. #:															
Addrose: POF	30x 301							Co	mpa	any:		BOPC	O, LP			÷., 1								
City: Lovington	State: NM	Zip:	8	8260)			Att	n:			Tony Savo	ie											
Bhopo #: (575)?	Fax #: (575)39	6-14	129					Ad	dre	ss:		522 W. Ma	arland											
Project #:	Project Owner	:						Cit	ty:			Carlsbad					Ŧ							
Project Name:	Hudson Federal Battery							Sta	ate:	N	м	Zip: 8	88220	ę	15M	21E	R T							
Project Location:	Eddy Co., NM							Ph	one	#:		(432)556-	8730	lori	(80,	((80	FO							
Sampler Name:	SOUL LOWRY							Fa	x #:	_				ే	Hd	Ē	LD							
FOR LAB USE ONLY					M	ATR	IX	-	PR	ESE	RV.	SAMPLI	NG				Ξ						1	24
Lab I.D.	Sample I.D.	G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
THUTUIS	ESW #1	a	1			x			Г			6/20/14	1400	x					-	-	-	-		
2	ESW #2	g	1			x						6/20/14	1400	x	_	-	-	-	-	-	-	-		
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affiliates or successors arising out of or related to the performance Relinquished By:	Date: 6 3 7 Received By: Phone Result: Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #:	
Defivered By: Sampler - UPS - Bus - Other:	Time: Image: Model Received By: HOLD FOR TPH Date: 0/3/14 HOLD FOR TPH Time: 1140 Model Hease email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com -2.42 Sample Condition CHECKED BY: Image: Model -2.42 Dres Yes Yes No No Model Model	
FORM-006 Revision 1.0	† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	



July 31, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: HUDSON FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/24/14 11:30.

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

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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.

Lope S. Moreno

Hope S. Moreno For Celey D. Keene Lab Director/Quality Manager



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

Received:	07/24/2014	Sampling Date:	07/23/2014
Reported:	07/31/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: ESW #3 (H402268-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/29/2014	ND	384	96.0	400	4.08	

Sample ID: ESW #4 (H402268-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	07/29/2014	ND	384	96.0	400	4.08	

Sample ID: SSW #3 (H402268-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	07/29/2014	ND	384	96.0	400	4.08	

Cardinal Laboratories

*=Accredited Analyte

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Lope S. Moreno

Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



- 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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*=Accredited Analyte

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Hope S. Moreno-

Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name:	Basin Environmental Service Techr	nolog	jies,	, LLC	;						BI	LL TO						ANA	LYSIS	RE	QUE	ST			
Project Manager	: Joel Lowry							Ρ.	0. ‡	ŧ:															
Address: P.O.	Box 301							Co	omp	any	y:	BOP	CO, LP	1											
City: Lovingtor	n State: NM	Zip	: 8	826	0			At	tn:			Tony Sav	oie												
Phone #: (575)	Fax #: (575)3	96-1	429					Ad	ldre	ss:		522 W. N	larland												
Project #:	Project Owne	r:						Ci	ty:			Carlsba	d				т						-		
Project Name:	Hudson Federal Battery							St	ate:	N	M	Zip:	88220	0	2W)	21B	₽								
Project Location	Eddy Co., NM							Ph	one	e #:		(432)556	-8730	orid	801	(80	0Ľ								
Sampler Name:	JOEL LONRY							Fa	x #:	:				- E	H	X	q								
FOR LAB USE ONLY			Г		N	ATR	x	_	PR	ESE	RV.	SAMPL	NG	1	⊨	BT	ę								
Lab I.D. <u>H402268</u>	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
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affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: Re	eceived By:	Phone Result:	Yes		Add'l Phone #:				
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Sampler - UPS - Bus - Other:	5.7	Cool_Intact (Initials)								
FORM-006	t Cardin	nal cannot accept verbal changes Please	fax written chan	nes to 575	-303-247	6				
Revision 1.0	1 Garan		iax millen chang	903 10 01 0	-000-241					

#54



August 22, 2014

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

RE: HUDSON FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/20/14 10:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/20/2014	Sampling Date:	08/18/2014
Reported:	08/22/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SSW #1 (H402549-01)

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	08/21/2014	ND	416	104	400	3.92	

Sample ID: SSW #2 (IN-SITU) (H402549-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	08/21/2014	ND	416	104	400	3.92	

Sample ID: SSW #3 (H402549-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	08/21/2014	ND	416	104	400	3.92	

Sample ID: SSW #4 (H402549-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	08/21/2014	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/20/2014	Sampling Date:	08/18/2014
Reported:	08/22/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WSW #1 (H402549-05)

Chloride, SM4500Cl-B	mg/l	g	Analyzed	Ву: АР					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/21/2014	ND	416	104	400	3.92	

Sample ID: WSW #2 (H402549-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	08/21/2014	ND	400	100	400	0.00	

Sample ID: WSW #3 (H402549-07)

Chloride, SM4500CI-B	mg/	′kg	Analyzed	l By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/21/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine



- 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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Celeg D. Keine

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

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Company Name:	Basin Environmental Service Techn	ologi	es, L	-TC							31	LL TO						ANAL	-YSI	S RE	QUE	ST			
Project Manager:	Ben Arguijo							P.C	9. #		1										-	_			
Address: P.O. B	ox 301							Co	mp	any		BOPC	O, LP												
City: Lovington	State: NM	Zip:	88	260				Att	2			Tony Savo	Ð												
Phone #: (575)3	96-2378 Fax #: (575)39	96-14	29					Ad	dre	SS:		522 W. Ma	rland												
Project #:	Project Owner						1.2	Cit	×			Carlsbad)	Н								
Project Name: H	ludson Federal Battery							Sta	ite:	z	\leq	Zip: 8	8220	le	5M)	21B	TP								
Project Location:	Eddy Co., NM							Ph	one	#		(432)556-4	8730	oric	801	(80)	OF							_	
Sampler Name:	Sort lown							Fax	#					Chl	PH (EX	DI								
FOR LAB USE ONLY			_		Ň	TRU			PR	ESE	RV.	SAMPLIN	G		TP	вт	IOI								
		C)OMP.	RS		-13												н								
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Ч	SSW #2 (In-Situ)	g	-		×					×		8/18/14	1105	×											
S	SSW #3	g	-		×					×		8/18/14	1110	×									-		
÷	SSW #4	g	-		×					×		8/18/14	1115	×									-		
(J	WSW #1	g	-		×					×		8/18/14	1120	×									-	_	
6	WSW #2	g	-	-	×					×		8/18/14	1125	×									-		
7	WSW #3	g	-	-	×					×		8/18/14	1130	×									-	-	
PLEASE NOTE: Liability and Da analyses. All claims including th service. In no event shall Cardin	mages. Cardinal's liability and client's exclusive remedy for any ose for negligence and any other cause whatsoever shall be de al be liable for incidental or consequental damages, including w	claim ar emed wa ithout lin	nitation	hether nless m	ade in ass inte	n contr writing muptio	act or and re	tort, sh ceived	d by C	ardina oss o	ed to t al with f profit	he amount paid by in 30 days after co ts incurred by client	the client for the mpletion of the ap t, its subsidiaries,	plicable											
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affiliates or successors arising out of or related to the performance Relinquished By:	e of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated rec Date: Date: Cardinal Received By:	Phone Result: Yes No	o Add'l Phone #:
Jal Jun	Time: 8:00	REMARKS:	o Add'l Fax #:
Relinquished By:	Date: Johy Received By:		HOLD FOR TPH
and and a	TIME 0900 Jude Dallos of	Please email results to p TASavoie@BassPet.com	m@basinenv.com, n & acruth@BassPe
Delivered By: (Circle One)	Cool Intact (Mittact)		
Sampler - UPS - Bus - Other: Juic	C Electron Erres Inter		
FORM-006 Revision 1.0	Light Cardinal cannot accept verbal changes. Please fa	x written changes to 575-393-2	476
0	10:30an #54		



October 13, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: HUDSON FEDERAL BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 10/08/14 11:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/08/2014	Sampling Date:	10/06/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY CO. NM		

Sample ID: BURIAL TRENCH WC #1 (H403077-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2014	ND	1.67	83.4	2.00	11.5	
Toluene*	<0.050	0.050	10/09/2014	ND	1.64	82.0	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.55	77.3	2.00	10.8	
Total Xylenes*	<0.150	0.150	10/09/2014	ND	4.57	76.2	6.00	11.0	
Total BTEX	<0.300	0.300	10/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	10/08/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/08/2014	ND	181	90.6	200	2.75	
DRO >C10-C28	58.3	10.0	10/08/2014	ND	184	92.1	200	4.38	
EXT DRO >C28-C35	18.7	10.0	10/08/2014	ND					
Surrogate: 1-Chlorooctane	99.9	% 47.2-157	7						
Surrogate: 1-Chlorooctadecane	101 9	52.1-176	5						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/08/2014	Sampling Date:	10/06/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY CO. NM		

Sample ID: BURIAL TRENCH WC #2 (H403077-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2014	ND	1.67	83.4	2.00	11.5	
Toluene*	<0.050	0.050	10/09/2014	ND	1.64	82.0	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.55	77.3	2.00	10.8	
Total Xylenes*	<0.150	0.150	10/09/2014	ND	4.57	76.2	6.00	11.0	
Total BTEX	<0.300	0.300	10/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	10/08/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/08/2014	ND	181	90.6	200	2.75	
DRO >C10-C28	<10.0	10.0	10/08/2014	ND	184	92.1	200	4.38	
EXT DRO >C28-C35	<10.0	10.0	10/08/2014	ND					
Surrogate: 1-Chlorooctane	101 %	6 47.2-157	,						
Surrogate: 1-Chlorooctadecane	101 %	52.1-176							

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/08/2014	Sampling Date:	10/06/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY CO. NM		

Sample ID: BURIAL TRENCH WC #3 (H403077-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2014	ND	1.67	83.4	2.00	11.5	
Toluene*	<0.050	0.050	10/09/2014	ND	1.64	82.0	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.55	77.3	2.00	10.8	
Total Xylenes*	<0.150	0.150	10/09/2014	ND	4.57	76.2	6.00	11.0	
Total BTEX	<0.300	0.300	10/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	10/08/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/08/2014	ND	181	90.6	200	2.75	
DRO >C10-C28	<10.0	10.0	10/08/2014	ND	184	92.1	200	4.38	
EXT DRO >C28-C35	<10.0	10.0	10/08/2014	ND					
Surrogate: 1-Chlorooctane	104 %	6 47.2-157							
Surrogate: 1-Chlorooctadecane	109 %	6 52.1-176							

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



- ND
 Analyte NOT DETECTED at or above the reporting limit

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

Cardinal Laboratories

*=Accredited Analyte

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

Celeg D. Keine

ARDI	INAL LABORATORIES 11 East Marland, Hobbs, NM 882 (575) 393-2326 FAX (575) 393-24	240							***		0		5						NAL	SISA	R	DUE	Ĭ
Company Name:	Basin Environmental Service Techn	nologies									8		. 10						AN	SIS	RE	QUE	T
Project Manager:	Joel Lowry							P.C	9. #														
Address: P.O. Bo	x 301		12					Co	mp	any	2		BOPCO), LP									
City: Lovington	State: NM	Zip: 8	882	60				Att	2			_	ony Savoie	u									
Phone #: (575)396	6-2378 Fax #: (575)39	96-1429						Ad	dre	SS:													
Project #:	Project Owner	a						Cit	Y)	3)	PH					
Project Name: Hu	udson Federal Battery #1						1	Sta	ate:	7	M	N	<u>5</u>		de	15M	216	RT					
Project Location:	Eddy Co., NM						Č. S.	Ph	one	#			432-556-8	730	lori	(801	(80	FO					
Sampler Name: Jo	el Lowry							Fa	× #						Ch	PH	ΓEX	LD					
FOR LAB USE ONLY		4	┥		MA	TRU			PR	ESE	R	-	SAMPLIN	G		Т	B	но					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :		DATE	TIME				ŀ					
	Burial Trench WC #1	g (- (×					×			10/6/14	1300	×	×	×						
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PLEASE NOTE: Liability and Dar analyses. All claims including the	mages. Cardinal's liability and client's exclusive remedy for ar ose for negligence and any other cause whatsoever shall be d of he liable for incidental or consecuental damages, including	ny claim aris deemed wai 1 without limi	ing wh wed un tation,	ether t less m busine	ade in ss inte	writin writin	g and ons, lo	receiving receiving solutions	shall ved by use, c	Card or loss	nited s of p	within within	30 days after co incurred by clien	the client for the ampletion of the a	applicable								
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FORM-006 Revision 1.0



October 14, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: HUDSON FEDERAL BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 10/09/14 16:11.

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

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

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

Accreditation applies to public drinking water matrices.

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

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/09/2014	Sampling Date:	10/08/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY CO. NM		

Sample ID: PAST SSW #1 (H403113-01)

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	10/13/2014	ND	400	100	400	0.00	

Sample ID: PAST SSW #2 (H403113-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/13/2014	ND	400	100	400	0.00	

Sample ID: PAST SSW #3 (H403113-03)

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	10/13/2014	ND	400	100	400	0.00	

Sample ID: PAST ESW #1 (H403113-04)

Chloride, SM4500Cl-B	mg/k	g	Analyzed	By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/13/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/09/2014	Sampling Date:	10/08/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY CO. NM		

Sample ID: PAST ESW #2 (H403113-05)

Chloride, SM4500CI-B	mg,	/kg	Analyzed	i By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	10/13/2014	ND	400	100	400	0.00	

Sample ID: PAST WSW #1 (H403113-06)

Chloride, SM4500CI-B	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/13/2014	ND	400	100	400	0.00	

Sample ID: PAST WSW #2 (H403113-07)

hloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/13/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine



- 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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Celeg D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

575) 393-2326 FAX	(575)	393-24/6
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Company Name:									B]]]	L TO						ANA	LYSIS	S RE	QUE	ST			
Project Manager: Joel Lowry							Ρ.0). #:	:															
Address: P.O. Box 301							Co	mpa	any:		BOPC	O, LP												
City: Lovington State: NM	Zip:	88	3260)			Att	n:			Tony Savo	oie												
Phone #: (575)396-2378 Fax #: (575)39	96-14	29					Ad	dres	ss:															
Project #: Project Owner	:				Ci			City:		City:					Ŧ							1		
Project Name: Hudson Federal #1 Battery							Sta	te:	NM	1 2	Zip:			2W)	21B	E						1		
Project Location: Eddy Co., NM							Ph	one	#:				bi l	801	(80	NOR 1								
Sampler Name: Micht Taylor							Fax	c #:					Ē	H	X	9								
FOR LAB USE ONLY				M	ATRI	x		PRE	ESER	V.	SAMPLI	NG	1	₽	BT	P								
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	UIHEK:	DATE	TIME												
Past. SSW #1	g	1		,	x				x		10/8/14	1100	x			-							-	
Past. SSW #2	g	1		3	x				x		10/8/14	1115	x											
Past. SSW #3	g	1			x				x		10/8/14	1200	x	-			1.1							
Past. ESW #1	g	1		2	x				x		10/8/14	1230	x											
5 Past. ESW #2	g	1		3	x				x		10/8/14	1240	x											
Past WSW #1	g	1			x				x		10/8/14	1310	х	1							-			
Past WSW #2	g	1		1	x				x		10/8/14	1320	x											
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		-		-	-	-	-			+			-							-	-			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable

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

Relinquished By:	Datey Received B	y:	Phone Result:	□ Yes	□ No	Add'I Phone #:	
Relinquished By:	Date: 914 Received B	mester y: male Condition CHECKEDBY:	Fax Result: REMARKS: Please en TASavoie	□ Yes nail result @BassP	□ No F ts to pm(et.com 8	Add'I Fax #: IOLD FOR TPH @basinenv.com, & SJW alters@BassPet.com	
Sampler - UPS - Bus - Other:	-180	ool Intact (Initials) Ves Ves No No					
FORM-006	(+ Cardinal canno	t accent verbal changes. Please fa	x written chang	es to 575	-393-247	6	





October 21, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: HUDSON FEDERAL BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 10/17/14 15:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/17/2014	Sampling Date:	10/16/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO. NM		

Sample ID: PAST. NSW #1 (H403206-01)

Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/20/2014	ND	416	104	400	0.00	

Sample ID: PAST. NSW #2 (H403206-02)

Chloride, SM4500CI-B	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	735	16.0	10/20/2014	ND	416	104	400	0.00	

Sample ID: PAST. NSW #3 (H403206-03)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	10/20/2014	ND	416	104	400	0.00	

Sample ID: PAST. WSW #4 (H403206-04)

Chloride, SM4500Cl-B	500Cl-B mg/kg		Analyzed	By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/20/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/17/2014	Sampling Date:	10/16/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO. NM		

Sample ID: PAST. ESW #1 (H403206-05)

Chloride, SM4500Cl-B	mg/	'kg	Analyzed	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/20/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever 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, whot limitation, business interruptions, loss of gronts incurred by client, its subsidiaries, affiliates or successor 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.

Celeg D. Keine



- 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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*=Accredited Analyte

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Celeg D. Keine

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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City: Lovington	State: NM	Zip: 88260	Attn: Tony Save	Die	-					i	
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Page 5 of 5



October 27, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: HUDSON FEDERAL BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 10/22/14 13:25.

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

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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.

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/22/2014	Sampling Date:	10/21/2014
Reported:	10/27/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY CO. NM		

Sample ID: TT - 1A @ 8' (H403254-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2014	ND	1.99	99.3	2.00	2.06	
Toluene*	<0.050	0.050	10/24/2014	ND	1.89	94.6	2.00	1.81	
Ethylbenzene*	<0.050	0.050	10/24/2014	ND	1.79	89.3	2.00	2.72	
Total Xylenes*	<0.150	0.150	10/24/2014	ND	5.33	88.9	6.00	2.78	
Total BTEX	<0.300	0.300	10/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/23/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/23/2014	ND	179	89.6	200	4.26	
DRO >C10-C28	<10.0	10.0	10/23/2014	ND	195	97.5	200	7.17	
EXT DRO >C28-C35	<10.0	10.0	10/23/2014	ND					
Surrogate: 1-Chlorooctane	97.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	140 9	52.1-170	6						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/22/2014	Sampling Date:	10/21/2014
Reported:	10/27/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY CO. NM		

Sample ID: TT - 1A @ 10' (H403254-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/23/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



- 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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Celeg D. Keine

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October 31, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: HUDSON FEDERAL BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 10/28/14 15:40.

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.

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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.

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/28/2014	Sampling Date:	10/27/2014
Reported:	10/31/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO. NM		

Sample ID: ESW #4 (H403314-01)

Chloride, SM4500CI-B	mg	/kg	Analyzed	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	10/29/2014	ND	400	100	400	0.00	

Sample ID: NE CORNER (H403314-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	10/29/2014	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celeg D. Keine



- 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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Project Manager:	Joel Lowry		P.O. #:						
Address: P.O. Bo	< 301		Company: BOPC	O, LP					
City: Lovington	State: NM	Zip: 88260	Attn: Tony Save	Jie					
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November 14, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: HUDSON FEDERAL BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 11/11/14 13:15.

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.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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Celey D. Keine

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:	11/11/2014	Sampling Date:	11/03/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY CO. NM		

Sample ID: 1974 PIT FLOOR (IN-SITU) (H403455-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2014	ND	1.80	90.1	2.00	5.78	
Toluene*	<0.050	0.050	11/13/2014	ND	1.71	85.5	2.00	6.87	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.65	82.7	2.00	9.28	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.94	82.3	6.00	9.77	
Total BTEX	<0.300	0.300	11/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.69	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5730	16.0	11/12/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	<10.0	10.0	11/12/2014	ND	196	98.2	200	2.55	
EXT DRO >C28-C35	<10.0	10.0	11/12/2014	ND					
Surrogate: 1-Chlorooctane	106 %	6 47.2-152	7						
Surrogate: 1-Chlorooctadecane	114 %	6 52.1-170	5						

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Celeg D. Keine

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:	11/11/2014	Sampling Date:	11/03/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY CO. NM		

Sample ID: B.T. STOCKPILE (H403455-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/12/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/14/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	<10.0	10.0	11/14/2014	ND	196	98.2	200	2.55	
EXT DRO >C28-C35	<10.0	10.0	11/14/2014	ND					
Surrogate: 1-Chlorooctane	119 %	6 47.2-157							
Surrogate: 1-Chlorooctadecane	129 9	52.1-176							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

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Celey D. Keene, Lab Director/Quality Manager

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