Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
jwlowry@basinenv.com

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



Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
New Mexico Oil Conservation Division (District 2)
811 South First Street
Artesia, New Mexico 88210

Re: Soil Closure Proposal
Big Eddy Unit #158 Tank Battery
Unit Letter J (NW/SE), Section 4, Township 22 South, Range 28 East
NMOCD Ref #s (2RP-2631 & 2662)
Eddy County, New Mexico

Mr. Bratcher:

This letter has been prepared in regard to BOPCO, L.P.'s Big Eddy Unit #158 Tank Battery (BEU #158) release site. The legal description of the release site is Unit Letter "J" (NW/SE), Section 4, Township 22 South, Range 28 East, in Eddy County, New Mexico. The property affected by the release is owned by the Bureau of Land Management (BLM). The release site GPS coordinates are 32.420070 North and 104.089737 West. A "Site Location Map" is provided as Attachment #1. "General Site Photographs" are provided as Attachment #2

An inferred depth-to-groundwater gradient map utilized by the NMOCD indicates the depth to groundwater is approximately 50-75' bgs at the release site. NMOCD guidelines indicate the BEU #158 release site has an initial ranking score of twenty (20) points. The soil remediation levels for a site with a ranking score of twenty (20) points are as follows:

- Benzene 10 mg/Kg (ppm)
- Benzene, Toluene, Ethylbenzene and Xylene (BTEX) 50 mg/Kg (ppm)
- Total Petroleum Hydrocarbons (TPH) 100 mg/Kg (ppm)

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

There have been two reportable releases at the BEU #158 tank battery. The first reportable release (2RP-2631) occurred on November 24, 2014. The release was attributed to the failure of a water dump valve, which sent all of the water to the oil tank causing it to overflow. Approximately 37 bbls of produced water

and 5 bbls of crude oil were released, affecting an area measuring approximately 1,500 sq. ft. within the earthen containment. During initial response activities, all of the free-standing fluid was recovered using a vacuum truck and the dump valve was replaced. A "Site and Sample Location Map" is provided as Attachment #3.

The second reportable release (2RP-2662) occurred on December 1, 2014. The release was attributed to the failure of a water dump valve. Approximately 115 bbls of produced water and 20 bbls of crude oil were released, affecting the same 1,500 sq. ft. within the earthen containment as the previous release. During initial response activities, all of the free-standing fluid was recovered using a vacuum truck and the dump valve was replaced. With NMOCD-approval the two releases will be remediated simultaneously and closed under one cover.

On December 2, 2014, Basin set out to conduct an initial investigation at the release site. During the initial investigation, a resilient rock layer at approximately 2.5' bgs prevented the advancement of delineation trenches. During this time it was decided an environmental drilling rig would be necessary to determine the vertical extent of soil impact.

On January 20, 2015, upon receiving BLM permission, an environmental drilling rig was used to advance an investigative soil bore (SB-1) at the location. Soil bore SB-1 was advanced in the southeast corner of the tank battery facility within the earthen containment. Soil bore SB-1 was advanced to approximately 30' bgs. During the advancement of the soil bore, five (5) soil samples (SB-1 @ Surface, SB-1 @ 5', SB-1 @ 10', SB-1 @ 20' and SB-1 @ 30') were collected and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from 19,062 ppm for soil samples SB-1 @ Surface to less than the laboratory method detection limit (MDL) for soil samples SB-1 @ 10', SB-1 @ 20' and SB-1 @ 30'. Chloride concentrations ranged from 432 ppm for soil sample SB-1 @ Surface to 64.0 ppm for soil sample SB-1 @ 30'. Soil samples SB-1 @ Surface, SB-1 @ 5' and SB-1 @ 10' were also analyzed for concentrations BTEX. Laboratory analytical results indicated BTEX concentrations ranged from 10.8 ppm for soil sample SB-1 @ 5' to less than the appropriate laboratory MDL for soil sample SB-1 @ 10'. Based on laboratory analytical results from confirmation soil samples it was determined that soil was not impacted above regulatory standards beyond approximately 10' bgs. A "Soil Chemistry Table" is provided as Attachment #4. "Laboratory Analytical Reports" are provided as Attachment #5.

BOPCO proposed the following remediation activities to help advance the BEU #158 release site toward and NMOCD approved closure:

- The active tank battery facility will be relocated and placed within a Falcon® Containment System that has been constructed on the eastern edge of the tank battery pad.
- Upon relocating the tank battery facility, affected soil beneath the former tank battery facility will be excavated to approximately 10' bgs, or the maximum extent practicable.
- The excavation sidewalls will be advanced until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below NMOCD regulatory guidelines.

- In the event soil exhibiting concentrations of BTEX, TPH or chloride above NMOCD regulatory guidelines is not able to be excavated, a 20-millimeter poly liner may be used to "cap" affected soils. This engineering control is designed to inhibit the vertical migration of contaminants left in-situ.
- Upon completion of excavation activities, the excavated area will be backfilled with non-impacted material and graded to meet the needs of the well pad.

Upon completion of the remediation activities, Basin will prepare a "Remediation Summary and Site Closure Request" detailing remediation activities and the results of confirmation soil sampling.

If you have any questions or need any additional information, please feel free to contact me by phone or email.

Respectfully,

Joel W. Lowry

Joel foury

Basin Environmental Service Technologies, LLC

Attachments:

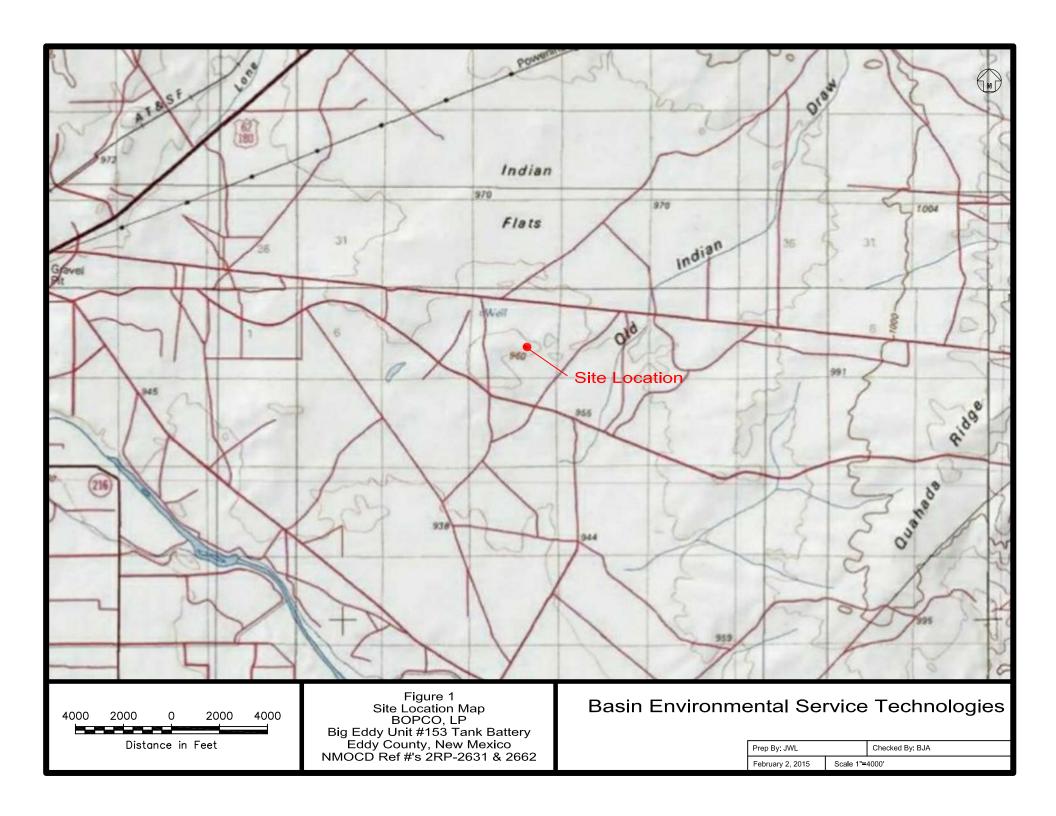
Attachment #1: Site Location Map

Attachment #2: General Site Photographs

Attachment #3: Site and Sample Location Map

Attachment #4: Soil Chemistry Table

Attachment #5: Laboratory Analytical Reports





Photograph of the November 24, 2014, release at the BEU #158 Tank Battery.



Photograph of the November 24, 2014, release at the BEU #158 Tank Battery.



Photograph of the December 1, 2014, release at the BEU #158 Tank Battery.



Photograph of the December 1, 2014, release at the BEU #158 Tank Battery.



Photograph of soil boring activities at the BEU #158 Tank Battery.



Photograph of the Falcon® containment system at the BEU #158 Tank Battery.

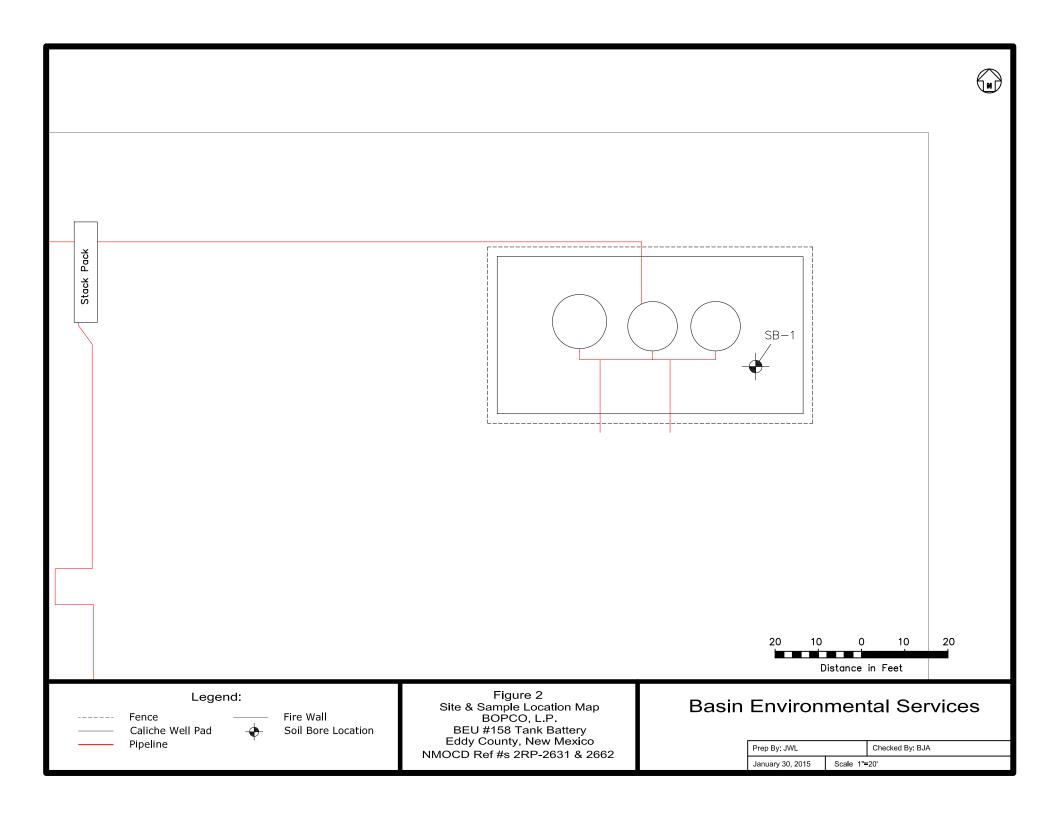


TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP BEU #158 TANK BATTERY EDDY COUNTY, NEW MEXICO

NMOCD REFERENCE #s: 2RP-2613 & 2RP-2662

	CAMBLE				METHOD: E	PA SW 846	-8021B, 503	MET	HOD: 80	TOTAL	4500 CI-B		
SAMPLE LOCATION	(BGS) DATE STATUS (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)		
SB-1 @ Surface	Surface	1/20/2015	In-Situ	<0.200	<0.200	0.258	1.01	1.27	562	18,500	<100	19,062	432
SB-1 @ 5'	5'	1/20/2015	In-Situ	<0.200	0.921	0.668	9.23	10.8	451	3,230	<10.0	3,781	416
SB-1 @ 10'	10'	1/20/2015	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	256
SB-1 @ 20'	20'	1/20/2015	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	112
SB-1 @ 30'	30'	1/20/2015	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	64.0
NMOCD Criteria				10				50				1,000	250

^{- =} Not analyzed.



January 27, 2015

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BEU #158

Enclosed are the results of analyses for samples received by the laboratory on 01/23/15 14:05.

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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service
JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 01/23/2015
 Sampling Date:
 01/21/2015

 Reported:
 01/27/2015
 Sampling Type:
 Soil

Reported:01/27/2015Sampling Type:SoilProject Name:BEU #158Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Celey D. Keene

Project Location: EDDY COUNTY, NM

Sample ID: SB-1 @ SURFACE (H500230-01)

BTEX 8021B	mg	/kg	Analyze	d By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	01/24/2015	ND	1.73	86.3	2.00	4.78		
Toluene*	<0.200	0.200	01/24/2015	ND	1.68	83.8	2.00	5.78		
Ethylbenzene*	0.258	0.258 0.200		ND	1.64	81.8	2.00	5.48		
Total Xylenes*	1.01 0.600		01/24/2015	ND	4.94	82.4	6.00	5.56		
Total BTEX	1.27	1.20	01/24/2015	ND						
Surrogate: 4-Bromofluorobenzene (PID		% 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	432	16.0	01/26/2015	ND	400	100	400	3.92		
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	562	100	01/27/2015	ND	192	96.1	200	1.01		
DRO >C10-C28	18500	100	01/27/2015	ND	192	96.2	200	3.37		
EXT DRO >C28-C35	<100	100	01/27/2015	ND						
Surrogate: 1-Chlorooctane	210	% 47.2-15	7							
Surrogate: 1-Chlorooctadecane	323	% 52.1-17	6							

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Celeg D. Keine



Basin Environmental Service JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/23/2015 Sampling Date: 01/21/2015

Reported: 01/27/2015 Sampling Type: Soil

Project Name: BEU #158 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY, NM

Sample ID: SB-1 @ 5' (H500230-02)

BTEX 8021B	mg	/kg	Analyze	d By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	01/24/2015	ND	1.73	86.3	2.00	4.78		
Toluene*	0.921	0.200	01/24/2015	ND	1.68	83.8	2.00	5.78		
Ethylbenzene*	0.668	0.668 0.200		ND	1.64	81.8	2.00	5.48		
Total Xylenes*	9.23 0.600		01/24/2015	ND	4.94	82.4	6.00	5.56		
Total BTEX	10.8	1.20	01/24/2015	ND						
Surrogate: 4-Bromofluorobenzene (PID	109	% 61-154	1							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	01/26/2015	ND	400	100	400	3.92		
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	451	10.0	01/26/2015	ND	192	96.1	200	1.01		
DRO >C10-C28	3230	10.0	01/26/2015	ND	192	96.2	200	3.37		
EXT DRO >C28-C35	<10.0	10.0	01/26/2015	ND						
Surrogate: 1-Chlorooctane	171	% 47.2-15	7							
Surrogate: 1-Chlorooctadecane	130	% 52.1-17	'6							

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Celey D. Keine



Basin Environmental Service JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/23/2015 Sampling Date: 01/21/2015

Reported: 01/27/2015 Sampling Type: Soil

Project Name: BEU #158 Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

Sample ID: SB-1 @ 10' (H500230-03)

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	01/24/2015	ND	1.73	86.3	2.00	4.78	
Toluene*	<0.050	0.050	01/24/2015	ND	1.68	83.8	2.00	5.78	
Ethylbenzene*	<0.050 0.050		01/24/2015	ND	1.64	81.8	2.00	5.48	
Total Xylenes*	<0.150 0.150		01/24/2015	ND	4.94	82.4	6.00	5.56	
Total BTEX	<0.300	0.300	01/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/26/2015	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	01/26/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	<10.0	10.0	01/26/2015	ND	192	96.2	200	3.37	
EXT DRO >C28-C35	<10.0	10.0	01/26/2015	ND					
Surrogate: 1-Chlorooctane	92.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	103 9	% 52.1-17	6						

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

Fax To:

(575) 396-1429

Received: 01/23/2015 Sampling Date: 01/21/2015 Reported: 01/27/2015 Sampling Type: Soil

Project Name: BEU #158 Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

Sample ID: SB-1 @ 20' (H500230-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112 16.0		01/26/2015	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	01/26/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	<10.0	10.0	01/26/2015	ND	192	96.2	200	3.37	
EXT DRO >C28-C35	<10.0	10.0	01/26/2015	ND					
Surrogate: 1-Chlorooctane	98.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	117	% 52.1-17	6						

Sample ID: SB-1 @ 30' (H500230-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	64.0 16.0		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	01/26/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	<10.0	10.0	01/26/2015	ND	192	96.2	200	3.37	
EXT DRO >C28-C35	<10.0	10.0	01/26/2015	ND					
Surrogate: 1-Chlorooctane	107	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	rogate: 1-Chlorooctadecane 119 % 52.1-17		6						

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Celeg D. Keine



Notes and Definitions

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

100

Company Name:								П			E	31	LL TO						ANI	II VC	10.0					
Project Manager	: Joel Lowry							1	P.O. #:				-	T	_	_	ANA	ALYS	IS R	EQUE	ST		_	_		
Address: P.O.	Box 301								Company: BOPCO, LP				+						-							
City: Lovington	State: NM	Zip	o: 8	882	60						iiy.	_		,	-											
Phone #: (575)	Phone #: (575)396-2378					-1	Attn: Tony Savoie				-				1											
Project #: Project Owner:						Address:				-																
Project Name: BEU #158					-	City:				-		m	TPH													
Project Location: Eddy Co., NM					- 1				1 7	Zip:		8	TPH (8015M)	BTEX (8021B)	F											
Sampler Name:	,,								Pho		#:	_			Chloride	80	8	FOR	1							
FOR LAB USE ONLY	occi comy	_	_	_	_		207	F	ах	_		_			၂ င	표	Ä	2	1							
		0.	ı	Н		MAT	KIX		-I	RES	SERV	4	SAMPLI	ING	-	F	<u> </u>	НОГР								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:		DATE	TIME												
0	SB-1 @ Surface		1			х			Т		T	$\overline{}$	1/21/15	1000	x	x	х				+	+-	+	\vdash	\vdash	+-
2	SB-1 @ 5'		1			х						T	1/21/15	1010	x	X	x			\vdash	+	+	+-	\vdash	\vdash	+
9	SB-1 @ 10'		1			x						T	1/21/15	1020	х	x	X			_	+-	+	+-	_	\vdash	+
ps	SB-1 @ 15'		1			х						Г	1/21/15	1030		-		x		_	+-	+-	_			_
52	SB-1 @ 20'		1			х						T	1/21/15	1040	Х	V		à	30	-	+-	+-	\vdash			_
06	SB-1 @ 25'		1			х							1/21/15	1050		^		X	-		+-	+-	_	\vdash		-
07	SB-1 @ 30'		1			x				T		\mathbf{r}	1/21/15	1100	v	1		4	51	_	\vdash	+-	-	\vdash	\vdash	-
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PLEASE NOTE: Liability and D	amages. Cardinal's liability and client's exclusive remedy for											Г									\vdash	_		\vdash		

PLASE NOTE: Liability and Damages. Cardina'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:	Detailed by Caldinar, regardless of whether such claim is based upon any of the above stated reas	ons or otherwise.	
O A	Date: Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:	
() / / /	Time: 13/1	Fax Result: ☐ Yes ☐ No Add'I Fax #:	
Jac Journ	1310 17/h	REMARKS:	
Relinquished By:	Date: 122 / Received Roy		
	1123/16		
111/1/	Times / / / / / / / /		
	1905 (, V., ///)	Please email results to pm@basinenv.com,	
Delivered By: (Circle One)	Sample Condition CHECKED BY:	TASavoie@BassPet.com, acruth@basspet.com	
	/		
Sampler - UPS - Bus - Other:	Cool (Intact (Intitials)		
	No No		
	+ Cordinal constant in the		

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

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