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

ŵ Effective Solutions

REMEDIATION SUMMARY

AND SITE CLOSURE REQUEST

BOPCO, LP JAMES RANCH UNIT #112-H PUMPING WELL Eddy County, New Mexico Unit Letter "P" (SE/SE), Section 36, Township 22 South, Range 30 East Latitude 32.34270° North, Longitude 103.82626° West NMOCD Reference #2RP-_____

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

May 2012

Sol low py

Joel W. Lowry

Project Manager

NMOCD

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1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Site Closure Request* for the release site known as James Ranch Unit #112-H Pumping Well (JRU #112-H). The legal description of the release site is Unit Letter "P" (SE/SE), Section 36, Township 22 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.34270° North latitude and 103.82626° West longitude. The property affected by the release is owned by The State of New Mexico and is administered by the New Mexico State Land Office (NMSLO). Please reference Figure 1 for a "Site Location Map" and Figure 2 for a "Site & Sample Location Map".

On April 30, 2012, BOPCO discovered a release had occurred at the JRU #112-H site. The release was attributed to the failure of the stuffing box packing on a pressurized well. The pressure has since been adjusted and packing replaced. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on April 30, 2012. The "Release Notification and Corrective Action" (Form C-141) indicated approximately fifteen (15) barrels of crude oil and fifteen (15) barrels of produced water were released, with approximately ten (10) barrels of total fluid being recovered. During initial response activities, a vacuum truck was utilized to recover free-standing fluids. The release affected approximately one thousand, eight hundred square feet (1,800 ft²) of caliche well pad. A Form C-141 is provided as Appendix A. General Photographs of the release site are provided as Appendix B.

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 36, Township 22 South, Range 30 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred seventy five feet (175') below ground surface (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 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 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 JRU #112-H 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)
- BTEX 50 mg/Kg (ppm)
- TPH 5,000 mg/Kg (ppm)

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On May 8, 2012, following initial response activities, excavation of impacted soil commenced at the release site. A Photo-Ionization Detector (PID) and chloride field kit were used to field screen the horizontal and vertical extent of impacted soil and to guide the excavation. Confirmation soil samples were collected and submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of benzene, ethylbenzene, toluene, and xylene (BTEX) using EPA SW-846-8021b, total petroleum hydrocarbon (TPH) using EPA SW-846 8015M, and/or chloride concentrations using EPA method 4500 Cl-B. The excavated soil was stockpiled on-site pending final disposition.

On May 11, 2012, five (5) soil samples (North Wall 1', South Wall 1', West Wall 1', East Wall 1' and Floor 2') were collected from the excavation floor and sidewalls and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) for soil samples North Wall 1', South Wall 1', West Wall 1' and East Wall 1' to 168 mg/Kg for soil sample Floor 2'. Chloride concentrations ranged from 48.0 mg/Kg for soil sample East Wall 1' to 1,340 mg/Kg for soil sample South Wall 1'. Soil sample Floor 2' was also analyzed for concentrations of BTEX constituents, which were determined to be less than the appropriate laboratory MDL for each constituent. Laboratory analytical reports are provided as Appendix C.

On May 16, 2012, approximately two hundred cubic yards (200 yd³) of impacted material was transported to Lea Land, LLC (NMOCD Permit #WM-01-035), for disposal. The final dimensions of the excavation were approximately twenty-five feet (25') to forty feet (40') in width, seventy-three feet (73') in length and eight inches (8") to two feet (2') in depth. Upon receiving laboratory analytical data from confirmation soil samples, the excavated area was backfilled with locally purchased, non-impacted material, and compacted in twelve inch (12") lifts. Following the backfilling of the excavation, areas affected by the remediation activities were contoured to fit the needs of the well pad.

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

Soil samples collected from the floor and sidewalls of the JRU #112-H excavation were analyzed by an NMOCD-approved laboratory. Laboratory analytical results indicated concentrations of BTEX, TPH and chloride were below NMOCD regulatory remediation action levels established for the site, with the exception of soil sample South Wall 1', which exhibited a chloride concentration of 1,340 mg/Kg. Based on these laboratory analytical results, Basin recommends BOPCO provide the NMOCD Artesia District Office and the NMSLO a copy of this *Remediation Summary and Site Closure Request* and request the NMOCD grant site closure to the JRU #112-H release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and 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

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- Copy 2: Andrew Kraemer New Mexico State Land Office 602 N.Canal, Suite B. 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

FIGURES

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Figure 1 Site Location Map

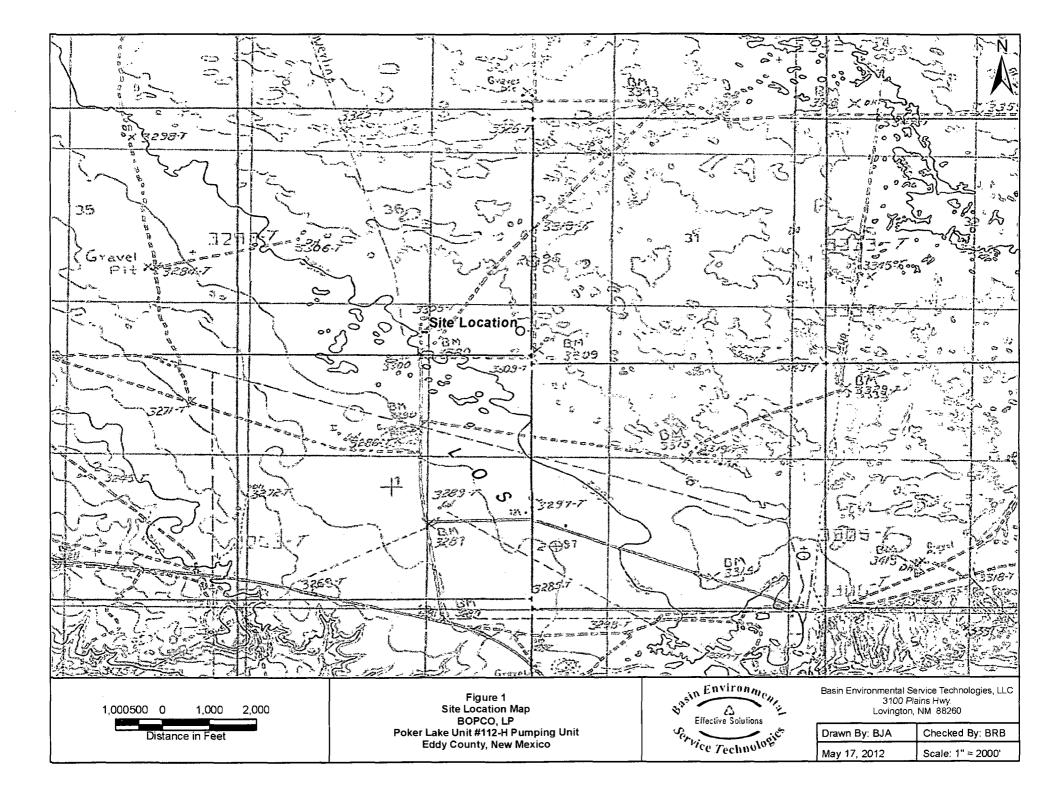
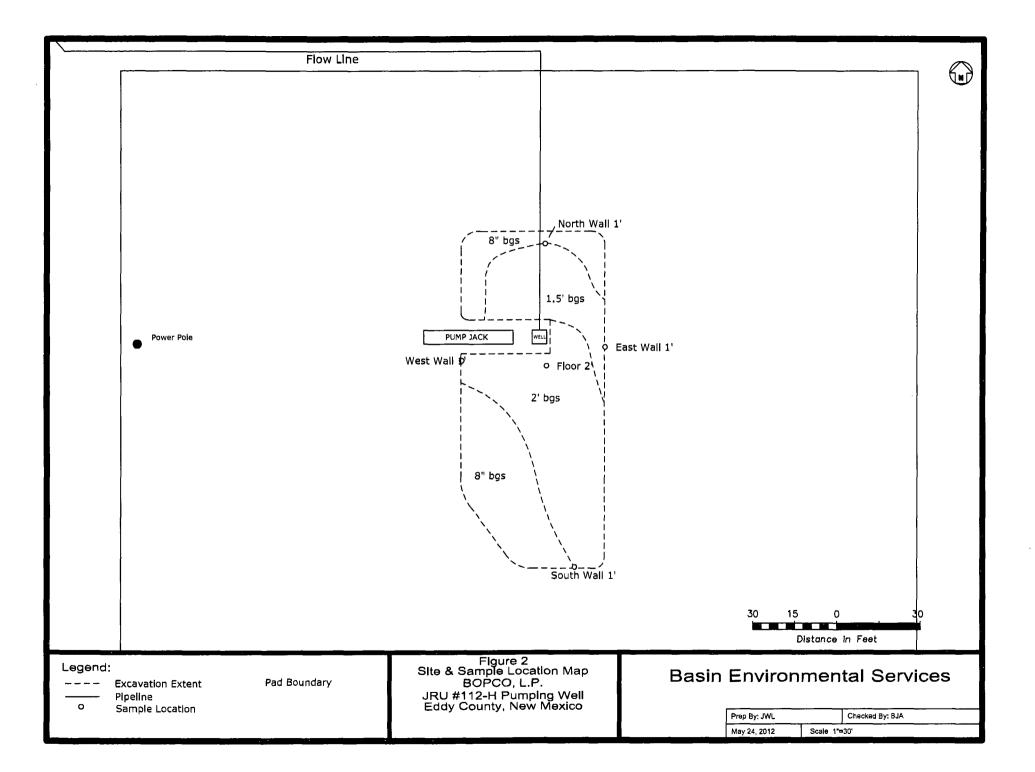


Figure 2

Site & Sample Location Map



TABLES

Table 1

Concentrations of Benzene, BTEX, TPH & Chloride in Soil

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TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP JAMES RANCH UNIT #112-H PUMPING UNIT EDDY COUNTY, NEW MEXICO

				METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL	E 300
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
North Wall 1'	1'	5/11/2012	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	288
South Wall 1'	1'	5/11/2012	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	1,340
West Wall 1'	1'	5/11/2012	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	800
East Wall 1'	1'	5/11/2012	În-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	48.0
Floor 2'	2'	5/11/2012	In-situ	< 0.050	< 0.050	<0.050	<0.150	<0.150	<10.0	_134	34.3	168	208
	1997 - 19	1. 1. A. A.	Sec. Sec.		Sec. Sec.			• • • • • • • • •			1.13.5		
NMOCD Criteria				10				50				5,000	

- = Not analyzed.

APPENDICES

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

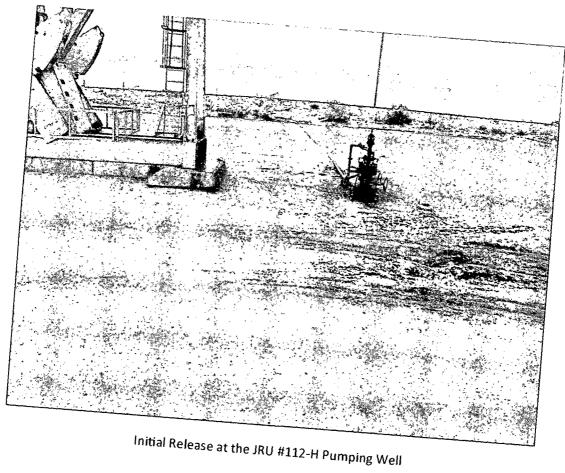
				Sa	nta r	e, NM $8/2$	0.5			New York of Contractor	
	Release Notification and Corrective Action										
						OPERA	TOR	🛛 Init	ial Report		Final Report
		DPCO, L.P.				Contact Tony Savoie					
	Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220						No. 432-556-873	30			
Facility Na	Facility Name: James Ranch Unit #112-H Pumping Well						e E&P				
Surface Ow	Surface Owner: State of N.M. Mineral Owner							Lease	No. NM 02	953-C	
				TOCH	TIO	NOPDE					
Unit Letter	Section	Township	Range		-	VN OF RE	Feet from the	East/West Line	County		
P	36	225	30E		Nord			Last West Line	Eddy		
L		L <u></u>		[]							
	Latitude 32.34270 Longitude W 103.82626										
				NAT	- am	OF REL	FASE				
Type of Rela	ase: Crude	oil and produ	ced water		UNE		Release: 15 bbls	crude Volume	Recovered:	0 bbls	total fluid
							bbls produced wa	ter			
Source of Re	lease: Pump	Jack Well H	lead			1	lour of Occurrenc		Hour of Dis	covery	
Was Immedi	ate Notice (liven?				4/30/12 11 If YES, To	me unknown Whom?	4/30/12	9:00 a.m.		
			Yes 🗌] No 🛄 Not Rea	quired		Emergency # 104				
By Whom? 7	l'ony Savoie	;				Date and H	lour 4/30/12 2:49	p.m.			
Was a Water	course Read						lume Impacting t		RE	CE	IVED
			Yes 🛛	No							
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	k			۵۰۰۰۰۰۰ (ال رباني) ، ۵۰۰۰۰ (۲۰۰۰۰ ۲۰۰۰ (۲۰۰۰۰ ۲۰۰۰ (۲۰۰۰ ۲۰۰۰ (۲۰۰۰ ۲۰۰۰ (۲۰۰۰ ۲۰۰۰ (۲۰۰۰ ۲۰۰۰ (۲۰۰۰ ۲۰		M	AY U	4-2012
										0	
									NMC		ARTESIA
Describe Cal pressure prol			dial Actio	n Taken.* The wel	l press	sured up and b	lew out the stuffir	ng box packing. T	he packing v	as repl	accd and the
			Action Tal	cen.*An area cover	ing at	proximately I	800 sq.ft. on the c	aliche well pad v	as affected h	by the re	elease. All of
the free stand	ting fluid w	as recovered	with a vac	uum truck. The stai	ined a	rea on the wel	l pad was left inta	ct; a remediation	crew will sta	rt samp	ling the
impacted are	a on 5/7/12	to determine	the vertica	l extent of the relea	ase. T	he spill will be the heat of mu	remediated follo	wing the NMOCI) guidelines	tor spill	remediation.
				nd/or file certain re							
public health	or the envi	ronment. The	: acceptan	ce of a C-141 repor	rt by tl	he NMOCD n	arked as "Final R	eport" does not re	lieve the ope	rator of	fliability
should their	operations h	ave failed to	adequately	investigate and re	media	ite contaminati	ion that pose a thr	eat to ground wat	er, surface w	ater, hu	man health
		ws and/or regi		ptance of a C-141 r	eport	does not reliev	e the operator of	responsionity for	compliance v	with any	y other
Touris, saite	, 01 1000	ng und of rog					OIL CON	SERVATION	DIVISIO	<u>DN</u>	******
		9	0						······································		
Signature:	Signature: Die Danne						District Supervise	07:			
Printed Nam	e: Tony Sav	oie									
									D. (.		
Title: Waste	Mgmt.& Rt	emediation Sp	pecialist			Approval Da	le:	Expiration	i Date:		
E-mail Addr	ess: TASavo	oie@BassPet.	com			Conditions of Approval:			Attached		
						•			Anacher	•	
Date: 5/2/12				Phone:432-556-87	30						

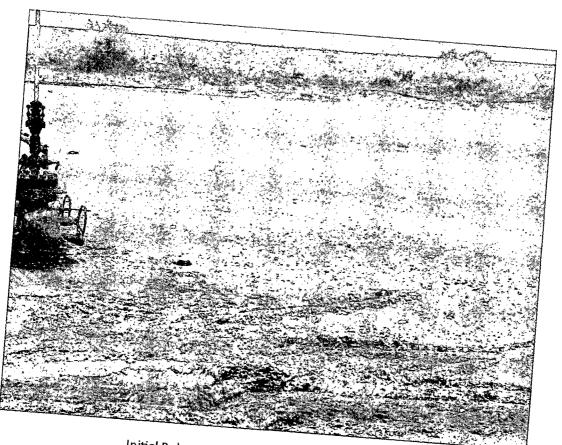
Date: 5/2/12 * Attach Additional Sheets If Necessary

District I State of 1625 N. French Dr., Hobbs, NM 88240 Energy Minera District II 1301 W. Grand Avenue, Artesia, NM 88210	of New Mexico Is and Natural Resource RECE	Form C-141 Revised October 10, 2003								
	ervation Division AUG	3 0 2012 Submit 2 Copies to appropriate District Office in accordance								
District IV 1220 Sou	th St. Francis Dr.	with Rule 116 on back								
Santa		ARIEDIA								
Release Notificati	on and Corrective Action									
News of Commence POPCO LD	OPERATOR Contact Tony Savoie	Initial Report X Final Report								
Name of CompanyBOPCO, LPAddress522 W. Mermod, Suite 704 Carlsbad, NM 88220	Contact Tony Savoie Telephone No. (432) 556-8730									
Facility Name James Ranch Unit #112-H Pumping Well	Facility Type E & P									
Surface Owner State of N.M. Mineral Owner	r: State of N.M.	Lease No. NM 02953-C								
LOCATI	ON OF RELEASE									
		West Line County Eddy								
Latitude N. 32.34270	Latitude N. 32.34270 Longitude W 103.82626									
NATUR	E OF RELEASE									
Type of Release Crude oil and produced water	Volume of Release 15 bbls crude oil and 15 bbls produced water	Volume Recovered: 10 bbls total fluid								
Source of Release: Pump Jack Well Head	Date and Hour of Occurrence	Date and Hour of OccurrenceDate and Hour of Discovery4/30/12 Time unknown4/30/12 9:00 a.m.								
Was Immediate Notice Given?	If YES, To Whom?	4/50/12 9:00 a.m.								
X Yes No Not Required	NMOCD Emergency #104									
By Whom? Tony Savoic	Date and Hour: 4/30/12 2:49 p.m.									
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.									
If a Watercourse was Impacted, Describe Fully.*										
Describe Cause of Problem and Remedial Action Taken.* The well pr pressure problem was corrected.	essured up and blew out the stuffing box	packing. The packing was replaced and the								
Describe Area Affected and Cleanup Action Taken.* An area covering release was remediated according to NMOCD guidelines for spill remediated May 2012, for details of remediation activities and analytical res	diation. Please see the attached Remedia									
I hereby certify that the information given above is true and complete t regulations all operators are required to report and/or file certain releas public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remec or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	e notifications and perform corrective ac the NMOCD marked as "Final Report" iate contamination that pose a threat to g t does not relieve the operator of respons	tions for releases, which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other								
	OIL CONSERV	ATION DIVISION								
Signature: One minue										
Printed Name: Tony Savoie	Approved by District Supervisor:									
Title: Waste Mgmt. & Remediation Specialist	Approval Date:	Expiration Date:								
E-mail Address: tasavoic@basspet.com	Conditions of Approval:	Attached								
Date: 8/30/12 Phone: (432) 556-8730]									

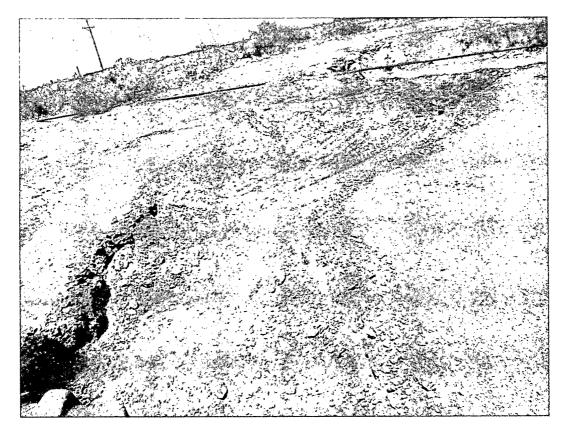
Appendix B Photographs

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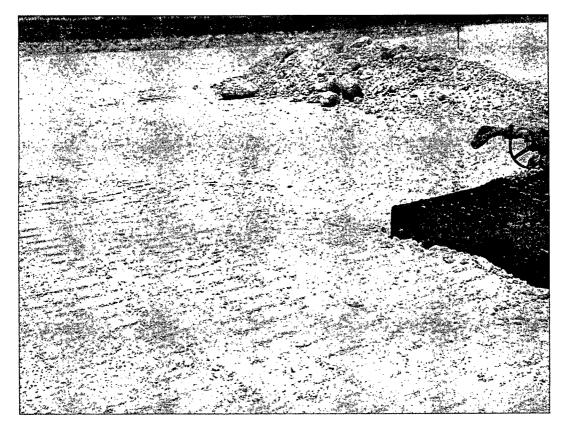
Initial Release at the JRU #112-H Pumping Well



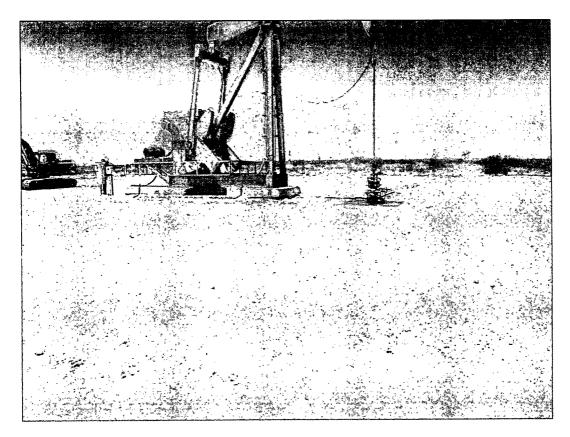
Excavation Activities at the JRU #112-H Pumping Well



Excavation Activities at the JRU #112-H Pumping Well



Backfilling Activities at the JRU #112-H Pumping Well



JRU #112-H Pumping Well Post Remediation Activities

Appendix C

Laboratory Analytical Reports



May 16, 2012

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

RE: JRU 112 H

Enclosed are the results of analyses for samples received by the laboratory on 05/14/12 13:05.

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

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,

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:	05/14/2012	Sampling Date:	05/11/2012
Reported:	05/16/2012	Sampling Type:	Soil
Project Name:	JRU 112 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SOUTH WALL 1' (H201076-01)

Chloride, SM4500CI-B	mg ,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	05/14/2012	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/15/2012	ND	172	86.0	200	9.82	
DRO >C10-C28	<10.0	10.0	05/15/2012	ND	169	84.7	200	4.37	
EXT DRO >C28-C35	<10.0	10.0	05/15/2012	ND					
Surrogate: 1-Chlorooctane	90.0	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	95.1	% 57.6-15	8						

Sample ID: WEST WALL 1' (H201076-02)

mg,	/kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
800	16.0	05/14/2012	ND	416	104	400	0.00	
mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/15/2012	ND	172	86.0	200	9.82	
<10.0	10.0	05/15/2012	ND	169	84.7	200	4.37	
<10.0	10.0	05/15/2012	ND					
88.9	% 55.5-15	4						
98.0	% 57.6-15	8						
	Result 800 mg, Result <10.0 <10.0 <10.0 88.9	800 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	Result Reporting Limit Analyzed 800 16.0 05/14/2012 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 800 16.0 05/14/2012 ND mg/kg Analyzed By: MS Method Blank Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS 800 16.0 05/14/2012 ND 416 mg/kg Analyzed By: MS Method Blank BS Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 800 16.0 05/14/2012 ND 416 104 mg/kg Analyzed By: MS Method Blank BS % Recovery Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 800 16.0 05/14/2012 ND 416 104 400 mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 800 16.0 05/14/2012 ND 416 104 400 0.00 mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC RPD Analyzed By: MS 400 0.00 mg/kg Analyzed By: MS 0.00 0.00 0.00 0.00 0.00

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any cleim arbing, whether based in contract or bort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoerer shall be deemed waived limites 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 use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal claoratories.

Celeg Di Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/14/2012	Sampling Date:	05/11/2012
Reported:	05/16/2012	Sampling Type:	Soil
Project Name:	JRU 112 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: EAST WALL 1' (H201076-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/14/2012	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/15/2012	ND	172	86.0	200	9.82	
DRO >C10-C28	<10.0	10.0	05/15/2012	ND	169	84.7	200	4.37	
EXT DRO >C28-C35	<10.0	10.0	05/15/2012	ND					
Surrogate: 1-Chlorooctane	91.0	% 55.5-15	4				<u></u>		
Surrogate: 1-Chlorooctadecane	95.8	% 57.6-15	8						

Sample ID: FLOOR 2' (H201076-04)

Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: HM				<u></u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/15/2012	ND	416	104	400	10.9	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/15/2012	ND	172	86.0	200	9.82	
DRO >C10-C28	134	10.0	05/15/2012	ND	169	84.7	200	4.37	
EXT DRO >C28-C35	34.3	10.0	05/15/2012	ND					
Surrogate: 1-Chlorooctane	95.6 %	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	121 %	57.6-15	8						

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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 bort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoeven shall be deemed watered unless made in writing and received by client list arises, afflictus or completion of the applicable service. In no event shall be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, afflictus or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clim is based upon any of the above static recomposed or or observes. Results else only to the samples to all most in the sample static and lists.

Celey Di Kuno-

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/14/2012	Sampling Date:	05/11/2012
Reported:	05/16/2012	Sampling Type:	Soil
Project Name:	JRU 112 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: NORTH WALL 1' (H201076-05)

Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: HM				<u></u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/15/2012	ND	416	104	400	10.9	
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	05/15/2012	ND	172	86.0	200	9.82	
DRO >C10-C28	<10.0	10.0	05/15/2012	ND	169	84.7	200	4.37	
EXT DRO >C28-C35	<10.0	10.0	05/15/2012	ND					
Surrogate: 1-Chlorooctane	95.2 %	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	103 %	6 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

 ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

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

 Insufficient time to reach temperature.

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

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

P.O. #: Company: BOPCO, LP Attn: Tony Savole Address: 522 W. Mermod City: Carlsbad State: NM Zin: 88220					
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service. In no event shall Candid by Fable for insidents of convegental damages, anisoing without simation, buttoes interruptions, fers at use, or test of profits incurred by event, as subsidiaries, affected and the subsidiaries of the subsidiari

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

#16



May 22, 2012

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

RE: JRU 112 H

Enclosed are the results of analyses for samples received by the laboratory on 05/14/12 13:05.

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

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

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

Accreditation applies to public drinking water matrices.

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,

Celeg & 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:	05/14/2012	Sampling Date:	05/11/2012
Reported:	05/22/2012	Sampling Type:	Soil
Project Name:	JRU 112 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SOUTH WALL 1' (H201076-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8 S	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	05/14/2012	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	05/15/2012	ND	172	86.0	200	9.82	
DRO >C10-C28	<10.0	10.0	05/15/2012	ND	169	84.7	200	4.37	
EXT DRO >C28-C35	<10.0	10.0	05/15/2012	ND					
Surrogate: 1-Chlorooctane	90.0	% 55.5-15	4				<u> </u>		
Surrogate: 1-Chlorooctadecane	95.1	% 57.6-15	8						

Sample ID: WEST WALL 1' (H201076-02)

Chloride, SM4500Cl-B	mg /	/kg	Anaiyze	d By: HM					<u></u> .
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	05/14/2012	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	05/15/2012	ND	172	86.0	200	9.82	
DRO >C10-C28	<10.0	10.0	05/15/2012	ND	169	84.7	200	4.37	
EXT DRO >C28-C35	<10.0	10.0	05/15/2012	ND					
Surrogate: 1-Chlorooctane	88.9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	98.0	% 57.6-15	8						

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Celeg Di Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/14/2012	Sampling Date:	05/11/2012
Reported:	05/22/2012	Sampling Type:	Soil
Project Name:	JRU 112 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: EAST WALL 1' (H201076-03)

Chloride, SM4500Cl-B	mg ,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/14/2012	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	05/15/2012	ND	172	86.0	200	9.82	
DRO >C10-C28	<10.0	10.0	05/15/2012	ND	169	84.7	200	4.37	
EXT DRO >C28-C35	<10.0	10.0	05/15/2012	ND					
Surrogate: 1-Chlorooctane	91.0	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	95.8	% 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/14/2012	Sampling Date:	05/11/2012
Reported:	05/22/2012	Sampling Type:	Soil
Project Name:	JRU 112 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: FLOOR 2' (H201076-04)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2012	ND	1.89	94.6	2.00	17.6	
Toluene*	<0.050	0.050	05/22/2012	ND	1.99	99.4	2.00	17.3	
Ethylbenzene*	<0.050	0.050	05/22/2012	ND	2.00	99.8	2.00	16.9	
Total Xylenes*	<0.150	0.150	05/22/2012	ND	6.21	103	6.00	15.9	
Surrogate: 4-Bromofluorobenzene (PID	1129	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/15/2012	ND	416	104	400	10.9	
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	05/15/2012	ND	172	86.0	200	9.82	
DRO >C10-C28	134	10.0	05/15/2012	ND	169	84.7	200	4.37	
EXT DRO >C28-C35	34.3	10.0	05/15/2012	ND					
Surrogate: 1-Chlorooctane	95.6	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	121 9	% 57.6-15	8						

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Celeg Disterno -

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/14/2012	Sampling Date:	05/11/2012
Reported:	05/22/2012	Sampling Type:	Soil
Project Name:	JRU 112 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: NORTH WALL 1' (H201076-05)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chlaride	288	16.0	05/15/2012	ND	416	104	400	10.9	
TPH 8015M	mg/	kg	Analyze	d By: MS					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/15/2012	ND	172	86.0	200	9.82	
DRO >C10-C28	<10.0	10.0	05/15/2012	ND	169	84.7	200	4.37	
EXT DRO >C28-C35	<10.0	10.0	05/15/2012	ND					
Surrogate: 1-Chlorooctane	95.2	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	103 9	% 57.6-15	8						

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Celez Di Keeno-

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC				BILL TO				ANALYSIS REQUEST												
Project Manager: Beb J. Arguijo				P.O. #:				1	Ī		T	Τ	T	T	1	T	Ī			
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City: Lovingto	sa State: IM	Zio	: 81		Attn: Tony Savoie															
Phone #: (575)					Address: 522 w. Mermod															
				City: Carlsbad																
Project Name: JRU 112H					State: NM Zip: 88220]			
Project Location: EDDY, N.M.				Phone #: (432) 556-8730																
	Jody Walters				Fax #:															
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Lab I.D. H2D 1076	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER ;	Acturadae; ICE / COOL OTHER ;	DATE	TIME	01.1.1.0	BOISM	Held For DTEX	3TEX								
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