District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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

Form C-141 Revised October 10, 2003

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

			Rele	ase Notific	atio	n and Co	rrectiv	vé Actio	n				
						OPERA	ΓOR		☐ Initia	al Repor	t/⊠	Final Rep	noo
lame of Co	mpany	Bur	gundy Oi	l & Gas, Inc.		Contact		Ben Taylo	r				
ddress	401 W. 7	Texas, Suite	1003, Mi	dland, TX 7970	1	Telephone N	No.	(432) 684	-4033				
acility Nar	ne Eunic	e Monumen	t Unit #2	8 (TRP # 1277)	- ,	Facility Typ	e	Well / Fl	ow Line				
								_					Ţ
urface Ow	ner:	State		Mineral C)wner	: State	e		Lease N	No. 0158	23		
									API No	. 30-02.	5-06170		
				LOCA	TIC	N OF REI	LEASE						
Init Letter	Section	Township	Range	Feet from the	Nort	h/South Line	Feet from	the Eas	t/West Line	County			\sqcap
M	19	208	37E	330		South	330		West	Lea			

		~				~			1.	I 015000
Surface Ow	ner:	State		Mineral C)wner:	Stat	e		1	lo. 015823
L									API NO	. 30-025-06170
				LOCA	ATION	OF RE	LEASE			
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	East/\	West Line	County
M	19	20S	37E	330	S	outh	330	V	Vest	Lea
			<u> </u>							
			Latitu	de N 32 deg. 3	3.311'	_ Longitud	de W 103 deg.	17.455	<u>;'</u>	
	NATURE OF RELEASE									
Type of Rele		Dil and Water					Release 5 bbl		Volume R	
Source of Re		Flow Line				Unknown	Iour of Occurrenc	е		Hour of Discovery 3/13/07
Was Immedi	ate Notice (If YES, To				10.50
			Yes ⊠	No Not Re	equired	Leak disco	vered by OCD (G	ary Wi	nk)	00T 2007
By Whom?		_				Date and I				(1) A 503
Was a Water	course Read		l v∝ ∇	1 No		If YES, Vo	olume Impacting t	he Wate	ercourse.	5
			Yes ⊠] NO					12	2 OCT 2007 PC
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.'	+					0	OCT 2007 Received 24 Hobbs OCD
									/2	Hobbs
									/	is OCD SO
										1.10
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*						150562931
Oil and water	r were relea	sed from a flo	wyline F	vegyation of impe	eted soil	was conduc	ted Impacted coi	l wae he	ouled to an	NMOCD approved disposal
		was backfille			icieu son	was conduc	teu. Impacteu soi	i was iii	auteu to air	iviviocid approved disposar
Describe Are	a Affected	and Cleanup A	Action Tal	cen.*						
Soil was exca	avated in a	36' x 37' x 20)' (deen) ai	rea until lahorator	v results	of samples r	enorted TPH cond	entratio	ons below 1	00 mg/kg and chloride
										ed with clean soil. A site
			hed, along	g with laboratory of	documen	tation, a tabl	e summarizing the	sample	e results and	d a chloride report of water
similar to tha	t which was	s released.								
I hereby certi	fy that the	information g	iven above	e is true and comp	lete to th	e hest of my	knowledge and u	ndersta	nd that nurs	suant to NMOCD rules and
										eases which may endanger
										eve the operator of liability
										r, surface water, human health ompliance with any other
		ws and/or regi		otance of a C-141	report ac	es not renev	e the operator of i	respons	ibility for co	ompliance with any other
*	<u> </u>		aittions.				OIL CONS	SERV	ATION	DIVISION
<i>'</i> '	/!	_ / /	•				om com			
Signature:	Signature: Cindy Crain as Agent for Burgundy Oil and Gas Approved by District Signature Signature Signature Signature Signature: Approved by District Signature Sign									
Printed Name) Cindy (Train as Agen	t for Burm	undy Oil and Gas	I A	Approved by	District Siple R	ONM.	ENTAL E	NGINFFR"
Timed Name	c. Cindy C	Jani as Agen	t tot Duigi	unity On and Gas						1
Title: Geolog	gist / Enviro	onmental Man	ager		<i>F</i>	Approval Dat	te: 10-18-0	7	Expiration 1	Date:
E-mail Addre	ess: cindy	.crain@gmail	.com		(Conditions of	f Approval:			Attached
Dote: 10/	11/07	DL.	na. (505)	441 7244						A MUCHOU
Date: 10/	11/0/	rno	ne. (303)	441-7244	1					1

Request for Backfill Approval - Burgundy Oil and Gas - Eunice Monument Unit #28 - 1RP # 1277



☆ © Cindy Crain to Larry,, Ben

show details 11:20 am (0 minutes ago) / Seply

Larry,

Burgundy Oil and Gas reported a flow line spill on a C141 dated 3/19/07 at the Eunice Monument Unit #28. The site is located in

Unit Letter M, Section 19, T20S, R37E, Lea County, New Mexico. Depth to groundwater is approximately 25 feet bgs.

Ocotillo Environmental has completed excavation of the impacted soil and has collected confirmation samples that report TPH concentrations

below 100 mg/kg, and chloride concentrations below 250 mg/kg. Attached please find Table 1, that provides a summary of the laboratory results.

As you requested a chloride report of the released water on the C141, a water sample is being collected today from the well.

I am in the process of preparing the final C141 report, and will be able to submit that to you when the results of the water sample are obtained.

In the meantime, Burgundy would like to go ahead and backfill the excavation pending your approval to do so.

Please let me know if we can proceed with backfilling.

Thank you,

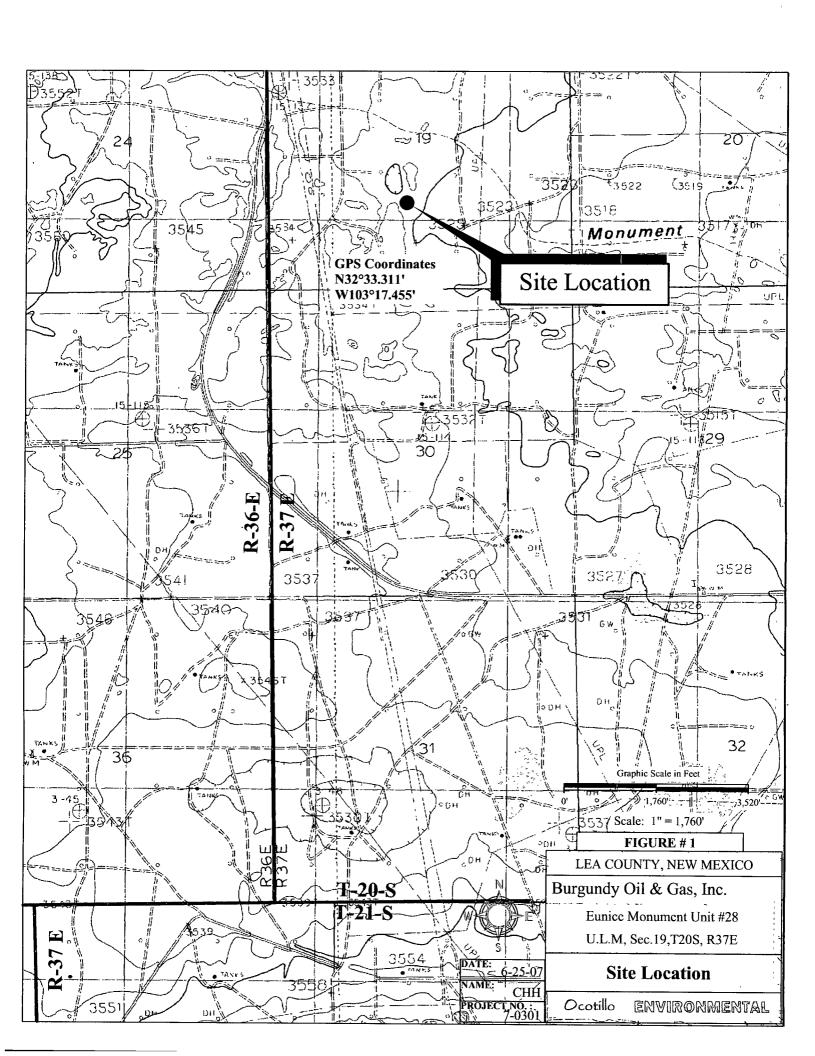
Cindy Crain Environmental Manager

Ocotillo Environmental 2125 French Drive Hobbs, NM 88240

Office (505) 393-6371 Cell (505) 441-7244 Fax (432) 272-0304 Jarbal agraval

Table.xls

27K View as HTML Open as a Google spreadsheet Download



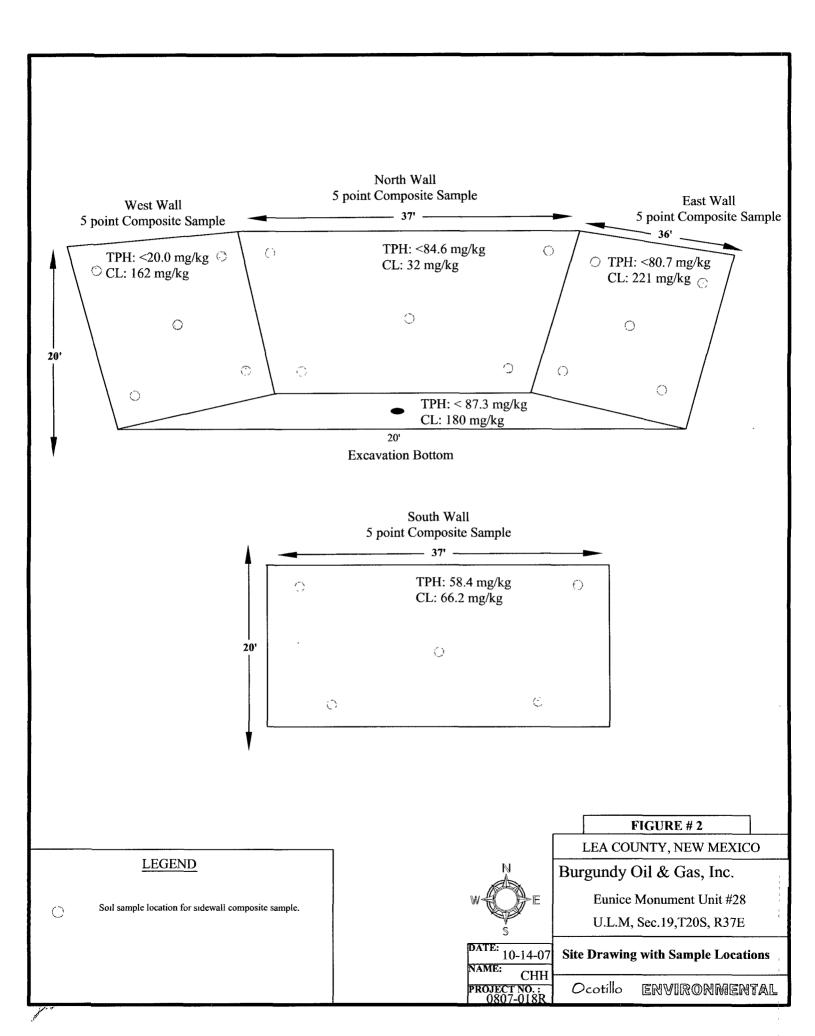


Table 1: Summary of Laboratory Analysis of Soil Samples Burgundy Oil & Gas, Inc., EMU Lease Section 19, Township 20 South, Range 37 East Lea County, New Mexico

Page 1 of 1

. . .

Sample	Soil Sample	Sample Depth (feet	PID	TPH	TPH '	TPH	Total	Chloride	Benzene	age 1 of 1
Date	Number	BGS)		.C6-C12	C12-C28	C28-C35	TPH	(mg/kg)	(mg/kg)	BTEX
- 1	1-	·		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	\ 0 8/	, ,	(mg/kg)
Ar,			⊸ Star	dard (WQC	CC)		100	250	10	50
6/6/07	SS-1	0-1	73	1,620	23,600	3,100	~28,320°	21.3		
6/6/07	SS-2	5-6	842	2,590	11,000	1,490	£'15,080	63.8	0.89	12.73
6/6/07	SS-3	10-11	610	2,110	7,120	1,020	10,250	, 574°,	2.50	18.47
6/6/07	SS-4	15-16	168	19	82.7	23.4	≥ 125.ft	1,360	< 0.0250	0.126
6/6/07	SS-5	0-1	7	<10.0	6.22	<10.0	6.22	21.3		
6/6/07	SS-6	5-6	5	<10.0	<10.0	<10.0	<30.0	<20.0		
										_
6/20/07	Bottom	17'	0	<29.1	<29.1	<29.1	<87.3	, 1,920		
7/11/07	Bottom	20'		<10.6	45.9	25.3	71.2	633		
8/9/07	Bottom	20'						180	1	-
6/20/07	North Side	Composite	13	<28 2	<28.2	<28.2	<84.6	1,310		
8/9/07	North Side	Composite						624		
9/4/07	SS-6	Composite						432		
10/3/07	SS-8	Composite						32		
6/20/07	South Side	Composite	33	75.6	808	150	1033.6	∴ 738₃		
7/11/07	South Side	Composite		<10.5	36.8	21.6	58.4	₹ 268°		
8/9/07	South Side	Composite						66.2		
6/20/07	East Side	Composite	0	<26.9	<26.9	<26.9	<80.7	* 1,010	-	
8/9/07	East Side	Composite						221		
		•								
6/20/07	West Side	Composite	42	84.1	727	146	957.1	* 865		
7/11/07	West Side	Composite		<10.5	75	34.9	109.9	162		
8/9/07	West Side	Composite		<10.8	104	11	115 ² ?			***
9/4/07	West Side	Composite		<10.0		<20.0	<20.0	-		

Notes

BGS Depth in feet below ground surface
 mg/kg Milligrams per kilogram

3 --- No data available

4. < Below method detection limit

Technical Services Group

16107 West University Odessa, Texas 79769 (800)-374-2802



WATER ANALYSIS REPORT

Sample Information

Company	Burgundy
Lease	EMU
Well Number	34
Sample Location	Well head
Sample Date	08/01/07

City/ County	
State	
Formation	
BB Chem. Rep.:	Ray Pierson
Analysis Date:	08/03/07

Dissolved GassesPPMHydrogen Sulfide0Carbon DioxideNDDissolved OxygenND

Fluid Conditions		
Fluid Temp.	72	₽F
Resistivity (RW)	0.240	Ohm-m
рН	6.71	
SpGr.	1.012	

Cations	mg/L	meq/L
Sodium	11,056	480.7
Calcium	1,163	58.1
Magnesium	146	12.0
Barium	1	0.0
Iron	0.4	0.0
Manganese	0.004	
Strontium	11.5	

Anions	mg/L	meq/L
Bicarbonate	1,415	23.2
Chloride	15,517	437.1
Sulfate	1,125	23.4

Carbonate Scale Index

Total Dissolved Solids	30,435
Total Ionic Strength	0.57
Total Hardness as CaCO3	3,502

Calcium Carbonate Scaling Tendency

Stability Index:	
<u>°F</u>	
50	0.12
68	0.24
77	0.34
86	0.44
104	0.72
122	0.94
140	1.24
158	1.62
176	1.89
194	2.27
212	2 65

3.00 2.50 2.00 1.50 1.00 0.50

86

104

122 140

Temp. ºF

158

176

194 212

68

50

77

Calcium Carbonate Index Legend
SI of less than 0 = No Potential
SI of 0 to 0.5 = Marginal Potential
SI of 0.5 to 1.0 = Moderate Potential
SI of above 1.0 = Severe Potential

Technical Services Group

16107 West University Odessa, Texas 79769 (800)-374-2802



WATER ANALYSIS REPORT

Page 2

Sample Information

Company	Burgundy
Lease	EMU
Well Number	34
Sample Location	Well head
Sample Date	8/1/2007

City/ State	
County	
Formation	
BB Chem. Rep.:	Ray Pierson
Analysis Date:	08/03/07

Calcium Sulfate Scaling Tendency

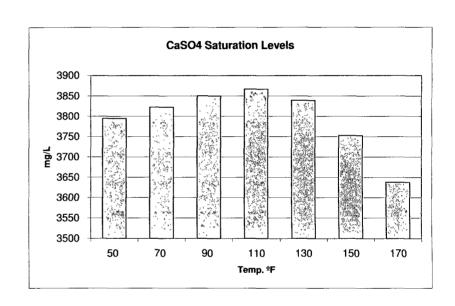
Maximum Amount of CaSO4 which can be held in solution at these temperatures.

₽F	mg/L
50	3794.62
70	3822.58
90	3850.39
110	3867.01
130	3839.29
150	3752.40
170	3638.12

Actual CaSO4 Conc. =

2017.97

If the actual value exceeds any of the mg/L values above. Calcium sulfate scale is likely



Barium Sulfate Scaling Tendency

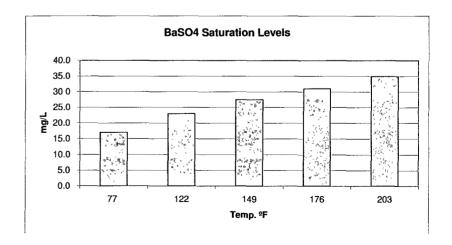
Maximum Amount of BaSO4 which can be held in solution at these temperatures.

ºF	mg/L
77	17.0
122	23.0
149	27.5
176	31.0
203	35.0

Actual BaSO4 Conc. =

1.41

If the actual value exceeds any of the mg/L values above. barium sulfate scale is likely



A Xenco Laboratories Company

Analytical Report

Prepared for:

Cindy Crain
Ocotillo Environmental
2125 French Dr.
Hobbs, NM 88201

Project: Burgundy EMU Lease Project Number: 7-0201 Location: Monument, NM

Lab Order Number: 7F06026

Report Date: 06/13/07

Project: Burgundy EMU Lease

2125 French Dr.

Project Number: 7-0201

Fax: (432) 367-6747

Hobbs NM, 88201

Project Manager: Cindy Crain

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1	7F06026-01	Soil	06/06/07 09:23	06-06-2007 16:00
SS-2	7F06026-02	Soil	06/06/07 09:26	06-06-2007 16:00
SS-3	7F06026-03	Soil	06/06/07 09:50	06-06-2007 16:00
SS-4	7F06026-04	Soil	06/06/07 10:05	06-06-2007 16:00
SS-5	7F06026-05	Soil	06/06/07 10:15	06-06-2007 16 00
SS-6	7F06026-06	Soil	06/06/07 10.30	06-06-2007 16 00

2125 French Dr. Hobbs NM, 88201 Project. Burgundy EMU Lease

Project Number 7-0201
Project Manager: Cindy Crain

Fax: (432) 367-6747

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-1 (7F06026-01) Soil									
Carbon Ranges C6-C12	1620	100	mg/kg dry	10	EF70702	06/07/07	06/09/07	EPA 8015M	
Carbon Ranges C12-C28	23600	100	11		н	n	0	n	
Carbon Ranges C28-C35	3100	100	11	u	и	11	11	n	
Total Hydrocarbons	28300	100	11	TI TI		u	н	R	
Surrogate 1-Chlorooctane		15.5 %	70-1	130	"	"	"	"	S-0
Surrogate 1-Chlorooctadecane		14.0 %	70-1	130	"	n .	n	"	S-0
SS-2 (7F06026-02) Soil									
Benzene	0.890	0 200	mg/kg dry	200	EF70705	06/07/07	06/08/07	EPA 8021B	
Toluene	2.91	0.200	ti .	n	"	"	n	н	
Ethylbenzene	2.20	0.200	u	11	"	H	н	п	
Xylene (p/m)	5.18	0.200	tt	11	n	11	u	#1	
Xylene (o)	1.55	0 200	n	н	"	H	11	H	
Surrogate a,a,a-Trifluorotoluene		138 %	75-1	125	"	"	"	"	S-0
Surrogate 4-Bromofluorobenzene		110 %	75-1	125	"	"	11	"	
Carbon Ranges C6-C12	2590	100	mg/kg dry	10	EF70702	06/07/07	06/09/07	EPA 8015M	
Carbon Ranges C12-C28	11000	100	11	11	и	u	11	U	
Carbon Ranges C28-C35	1490	100	u ·	11	11	11	п	11	
Total Hydrocarbons	15100	100	11	u	11	n	, n	, 11	
Surrogate 1-Chlorooctane		20.2 %	70-1	130	"	"	"	"	S-0
Surrogate 1-Chlorooctadecane		12.7 %	70-1	130	"	"	"	"	S-0
SS-3 (7F06026-03) Soil									
Benzene	2.50	0.200	mg/kg dry	200	EF70705	06/07/07	06/08/07	EPA 8021B	
Toluene	5.24	0.200	н	11	"	H	11	11	
Ethylbenzene	3.25	0.200	н	11	11	n	U	u	
Xylene (p/m)	5.11	0.200	*1	n	U	11	11	II	
Xylene (o)	2.37	0.200	**		11	11		1)	
Surrogate a,a,a-Trifluorotoluene		214 %			"	"	"	"	S-0
Surrogate 4-Bromofluorobenzene		134 %	75	125	"	"	"	"	S-0
Carbon Ranges C6-C12	2110	100	mg/kg dry	10	EF70702	06/07/07	06/09/07	EPA 8015M	
Carbon Ranges C12-C28	7120	100	и	n	u	11	11	п	
Carbon Ranges C28-C35	1020	100	н	17	11	11	11	**	
Total Hydrocarbons	10200	100	н	11	ft		U		
Surrogate 1-Chlorooctane		181%	70	130	"	"	"	"	S-0
Surrogate 1-Chlorooctadecane		12 1 %	70-	130	"	n	"	"	S-0,0

Environmental Lab of Texas

A Xenco Laboratories Company

The results in this report apply to the samples analyzed in accordance with the sample's received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

2125 French Dr Hobbs NM, 88201 Project: Burgundy EMU Lease

Project Number: 7-0201 Project Manager: Cindy Crain Fax (432) 367-6747

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-4 (7F06026-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF70705	06/07/07	06/08/07	EPA 8021B	
Toluene	J [0.0248]	0.0250	"	11	u	"	11	н	
Ethylbenzene	0.0344	0.0250	11	"	н	11	II	и .	į
Xylene (p/m)	0.0470	0.0250	11	н	n	II	11	n .	
Xylene (o)	J [0.0198]	0.0250	11	"	u	n	D .	н	
Surrogate a,a,a-Trifluorotoluene		980%	75-1	125	"	"	"	"	
Surrogate. 4-Bromofluorobenzene		83.2 %	75-1	125	"	"	"	"	
Carbon Ranges C6-C12	19.0	10.0	mg/kg dry	1	EF70702	06/07/07	06/09/07	EPA 8015M	
Carbon Ranges C12-C28	82.7	10.0	н	u	**	***	и	n	
Carbon Ranges C28-C35	23.4	10.0	It	n	н	11	n	ti .	
Total Hydrocarbons	125	10.0	11	н	· "	14	н	п	
Surrogate 1-Chlorooctane		123 %	70	130	"	"	"	n	
Surrogate 1-Chlorooctadecane		118 %	70-	130	"	"	"	"	
SS-5 (7F06026-05) Soil					***				
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF70702	06/07/07	06/09/07	EPA 8015M	
Carbon Ranges C12-C28	J [6.22]	10.0	"	11	11	н	11	II.	
Carbon Ranges C28-C35	ND	10.0	н	"	"	11	u	11	
Total Hydrocarbons	ND	10.0	"	н	н	11	н	"	
Surrogate 1-Chlorooctane		110 %	70-	130	"	"	"	n .	
Surrogate 1-Chlorooctadecane		109 %	70-	130	"	n	"	п	İ
SS-6 (7F06026-06) Soil									
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EF70703	06/07/07	06/11/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	u	н	11	17	n	41	
Carbon Ranges C28-C35	ND	10.0	n	n	n.	"	11	11	-
Total Hydrocarbons	ND	10.0	"	11	ti		н	11	
Surrogate 1-Chlorooctane		800%	70-	130	11	"	"	"	
Surrogate 1-Chlorooctadecane		796%	70-	130	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas

Page 3 of 11

Project: Burgundy EMU Lease

Fax: (432) 367-6747

2125 French Dr Hobbs NM, 88201 Project Number: 7-0201 Project Manager: Cindy Crain

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

		Reporting			- 1				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SS-1 (7F06026-01) Soil					_				
Chloride	21.3	20.0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	4.6	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
SS-2 (7F06026-02) Soil			<u> </u>						
Chloride	63.8	20.0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	10.4	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
SS-3 (7F06026-03) Soil									
Chloride	574	20.0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	6.7	0.1	%	1	EF70801	06/07/07	06/08/07`	% calculation	
SS-4 (7F06026-04) Soil					<u></u>				
Chloride	1360	20 0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	10.8	0 1	%	I	EF70801	06/07/07	06/08/07	% calculation	
SS-5 (7F06026-05) Soil									
Chloride	21.3	20.0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	3.0	1.0	%	1	EF70801	06/07/07	06/08/07	% calculation	
SS-6 (7F06026-06) Soil			· · · · · · · · · · · · · · · · · · ·		_				
Chloride	ND	20.0	mg/kg Wet	2	EF71106	06/11/07	06/11/07	SW 846 9253	
% Moisture	2.9	0 1	%	1	EF70801	06/08/07	06/08/07	% calculation	

2125 French Dr. Hobbs NM, 88201 Project. Burgundy EMU Lease

Fax. (432) 367-6747

Project Number: 7-0201 Project Manager: Cindy Crain

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70702 - Solvent Extraction (······································									
Blank (EF70702-BLK1)			-	Prepared:	06/07/07	Analyzed	: 06/09/07			
Carbon Ranges C6-C12	ND	100	mg/kg wet							
Carbon Ranges C12-C28	ND	10 0	11							
Carbon Ranges C28-C35	ND	100	11							
Total Hydrocarbons	ND	10 0	n							
Surrogate 1-Chlorooctane	58 6		mg/kg	50 0	··········	117	70-130			
Surrogate 1-Chlorooctadecane	568		"	50.0		114	70-130			
LCS (EF70702-BS1)				Prepared:	06/07/07	Analyzed	i: 06/09/07			
Carbon Ranges C6-C12	484	100	mg/kg wet	500		96 8	75-125			
Carbon Ranges C12-C28	393	10 0	11	500		78 6	75-125			
Carbon Ranges C28-C35	ND	100	н	0 00			75-125			
Total Hydrocarbons	877	10 0	0	1000		87 7	75-125			
Surrogate 1-Chlorooctane	61 1		mg/kg	50 0		- 122	70-130			
Surrogate 1-Chlorooctadecane	56 4		"	50 0		113	70-130			
Calibration Check (EF70702-CCV1)				Prepared:	06/07/07	Analyzeo	l: 06/09/07			
Carbon Ranges C6-C12	221		mg/kg wet	250		88 4	80-120			
Carbon Ranges C12-C28	226		"	250		90 4	80-120			
Total Hydrocarbons	448		н	500		89 6	80-120			
Surrogate 1-Chlorooctane	64 6		mg/kg	50 0		129	70-130			
Surrogate 1-Chlorooctadecane	608		"	50 0		122	70-130			
Matrix Spike (EF70702-MS1)	So	urce: 7F060	12-07	Prepared.	06/07/07	Analyzeo	l: 06/09/07			
Carbon Ranges C6-C12	468	100	mg/kg dry	509	ND	919	75-125			
Carbon Ranges C12-C28	444	10 0	п	509	41 6	79 1	75-125			
Carbon Ranges C28-C35	25 1	10 0	n	0 00	180		75-125			
Total Hydrocarbons	937	10 0	11	1020	59 6	86 0	75-125			
Surrogate 1-Chlorooctane	598		mg/kg	50 0		120	70-130			
Surrogate 1-Chlorooctadecane	54 3		"	50 0		109	70-130			

2125 French Dr. Hobbs NM, 88201 Project Burgundy EMU Lease

Project Number. 7-0201
Project Manager: Cindy Crain

Fax. (432) 367-6747

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70702 - Solvent Extraction (GC)									
Matrix Spike Dup (EF70702-MSD1)	So	urce: 7F060	12-07	Prepared:	06/07/07	Analyzed	· 06/09/07			
Carbon Ranges C6-C12	488	10 0	mg/kg dry	509	ND	95 9	75-125	4 26	20	
Carbon Ranges C12-C28	469	10 0	11	509	41.6	84 0	75-125	6 01	20	
Carbon Ranges C28-C35	25.5	10 0	**	0 00	18 0		75-125		20	
Total Hydrocarbons	983	10.0	n	1020	59 6	90 5	75-125	5 10	20	
Surrogate 1-Chlorooctane	618		mg/kg	50 0		124	70-130			
Surrogate 1-Chlorooctadecane	54 5		. "	50 0		109	70-130			
Batch EF70703 - Solvent Extraction (GC)									
Blank (EF70703-BLK1)				Prepared:	06/07/07	Analyzed	: 06/11/07			
Carbon Ranges C6-C12	ND	100	mg/kg wet							
Carbon Ranges C12-C28	ND	10 0	9							
Carbon Ranges C28-C35	ND	10 0	ti .							
Total Hydrocarbons	ND	10 0	**		•					
Surrogate 1-Chlorooctane	42 1		mg/kg	50 0		84 2	70-130			
Surrogate 1-Chlorooctadecane	44 2		"	50 0		88.4	70-130			
LCS (EF70703-BS1)				Prepared:	06/07/07	Analyzed	: 06/11/07			
Carbon Ranges C6-C12	491	10 0	mg/kg wet	500		98.2	75-125			
Carbon Ranges C12-C28	387	10 0	11	500		77 4	75-125			
Carbon Ranges C28-C35	ND	10 0	п	0 00			75-125			
Total Hydrocarbons	878	10 0	"	1000 `		87 8	75-125			
Surrogate 1-Chlorooctane	46 4		mg/kg	50 0		928	70-130			
Surrogate. 1-Chlorooctadecane	44 3		"	50 0		88 6	70-130			
Calibration Check (EF70703-CCV1)				Prepared	06/07/07	Analyzed	l: 06/11/07			
Carbon Ranges C6-C12	210		mg/kg wet	250		84 0	80-120			
Carbon Ranges C12-C28	235		н	250		94 0	80-120			
Total Hydrocarbons	445		"	500		89 0	80-120			
Surrogate 1-Chlorooctane	52 5		mg/kg	50 0		105	70-130			
Surrogate 1-Chlorooctadecane	50 1		"	50 0		100	70-130			

Project: Burgundy EMU Lease

2125 French Dr. Hobbs NM, 88201 Project Number: 7-0201 Project Manager: Cindy Crain Fax: (432) 367-6747

Analyta	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Resurt	Lillin	Omis	Level	Result	70ICEC	Lillins	IG D	Lillint	110103
Batch EF70703 - Solvent Extraction	(GC)								· · · · · · · · · · · · · · · · · · ·	
Matrix Spike (EF70703-MS1)	Sou	rce: 7F0602	27-01	Prepared:	06/07/07	Analyzed	: 06/11/07			
Carbon Ranges C6-C12	502	100	mg/kg dry	528	ND	95 1	75-125			
Carbon Ranges C12-C28	426	10 0	n	528	ND	80.7	75-125			
Carbon Ranges C28-C35	ND	100	11	0 00	ND		75-125			
Total Hydrocarbons	929	100	II .	1060	ND	87 6	75-125			
Surrogate 1-Chlorooctane	56 7		mg/kg	50 0		113	70-130			
Surrogate 1-Chlorooctadecane	46 4		"	50 0		928	70-130			
Matrix Spike Dup (EF70703-MSD1)	Sou	rce: 7F0602	27-01	Prepared:	06/07/07	Analyzed	l: 06/11/07			
Carbon Ranges C6-C12	523	10 0	mg/kg dry	528	ND	99 1	75-125	4 12	20	
Carbon Ranges C12-C28	432	10 0	11	528	ND	81 8	75-125	1 35	20	
Carbon Ranges C28-C35	ND	10 0	и	0 00	ND		75-125		20	
Total Hydrocarbons	956	10 0	н	1060	ND	90 2	75-125	2 92	20	
Surrogate: 1-Chlorooctane	50 5		mg/kg	50 0		101	70-130			
Surrogate 1-Chlorooctadecane	45 1		"	50 0		90.2	70-130			
Batch EF70705 - EPA 5030C (GC)										
Blank (EF70705-BLK1)				Prepared	06/07/07	Analyzed	l: 06/08/07			
Benzene	ND	0 00100	mg/kg wet							
Toluene	ND	0 00100	11							
Ethylbenzene	ND	0 00100	11							
Xylene (p/m)	ND	0 00100	D.							
Xylene (o)	ND	0 00100	n	•						
Surrogate a,a,a-Trifluorotoluene	48 0		ug/kg	50.0		96 0	75-125			
Surrogate 4-Bromofluorobenzene	45 2		n	50.0		90 4	75-125			
LCS (EF70705-BS1)				Prepared:	: 06/07/07	Analyzed	l: 06/08/07			
Benzene	0 0538	0 00100	mg/kg wet	0 0500		108	80-120			
Toluene	0 0550	0 00100	"	0 0500		110	80-120			
Ethylbenzene	0 0535	0 00100	и	0 0500		107	80-120			
	0 101	0.00100	н	0.100		101	80-120			
Xylene (p/m)	0 101									
Xylene (p/m) Xylene (o)	0 0561	0 00100	u	0 0500		112	80-120			
		0 00100	ug/kg	0 0500 50 0		112	80-120 75-125			

2125 French Dr. Hobbs NM, 88201 Project Burgundy EMU Lease

Fax: (432) 367-6747

Project Number: 7-0201 Project Manager: Cindy Crain

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70705 - EPA 5030C (GC)			·		-		<u> </u>	······································		
Calibration Check (EF70705-CCV1)	**			Prepared:	06/07/07	Analyzed	: 06/08/07			
Benzene	0 0548		mg/kg wet	0.0500		110	80-120			
Toluene	0 0537		н	0 0500		107	80-120			
Ethylbenzene	0.0489		н	0.0500		978	80-120			
Xylene (p/m)	0 0947		И	0 100		94 7	80-120			
Xylene (o)	0 0535		"	0 0500		107	80-120			
Surrogate a,a,a-Trifluorotoluene	528		ug/kg	50 0		106	75-125			
Surrogate 4-Bromofluorobenzene	45 8		"	50.0		916	75-125			
Matrix Spike (EF70705-MS1)	So	urce: 7F060	02-01	Prepared:	06/07/07	Analyzed	: 06/08/07			
Benzene	0 102	0 00200	mg/kg dry	0 100	ND	102	80-120			
Toluene	0 101	0 00200	н	0 100	ND	101	80-120			
Ethylbenzene	0 0963	0.00200	н	0.100	ND	96 3	80-120	_		
Xylene (p/m)	0 178	0 00200	"	0 200	ND	89 0	80-120			
Xylene (o)	0.0986	0 00200	11	0 100	ND	98 6	80-120			
Surrogate a,a,a-Trifluorotoluene	47 7		ug/kg	50 0		95 4	75-125			
Surrogate 4-Bromofluorobenzene	45.5		"	50 0		910	75-125			
Matrix Spike Dup (EF70705-MSD1)	So	urce: 7F060	02-01	Prepared:	06/07/07	Analyzed	06/08/07			
Benzene	0 0973	0 00200	mg/kg dry	0.100	ND	97 3	80-120	4 72	20	
Toluene	0 0943	0 00200	и	0 100	ND	94.3	80-120	6 86	20	
Ethylbenzene	0 0929	0 00200	II.	0 100	ND	92.9	80-120	3 59	20	
Xylene (p/m)	0 164	0 00200	н	0 200	ND	82 0	80-120	8 19	20	
Xylene (o)	0 0921	0 00200	11	0 100	ND	92 1	80-120	6 82	20	
Surrogate a.a,a-Trifluorotoluene	43 0		ug/kg	50 0		86 0	75-125			
Surrogate 4-Bromofluorobenzene	428		"	50 0		85 6	75-125			

Project: Burgundy EMU Lease

Fax. (432) 367-6747

2125 French Dr. Hobbs NM, 88201 Project Number: 7-0201
Project Manager: Cindy Crain

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit Unit	Spike ts Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70801 - General Preparation									
Blank (EF70801-BLK1)	ii (x rep)		Prepared	l & Analyz	ed: 06/08/	07			
% Solids	100	%		i & mary z	. 00/00/	07			
Duplicate (EF70801-DUP1)	So	urce: 7F06026-01	Prepared	l: 06/07/07	' Analyzec	1: 06/08/07			
% Solids	96 1	%	•	95 4			0 731	20	
Duplicate (EF70801-DUP2)	So	urce: 7F06024-09	Prepared	1: 06/07/07	' Analyzec	l: 06/08/07			
% Solids	88 6	%		88 5			0.113	20	
Duplicate (EF70801-DUP3)	So	urce: 7F07003-03	Prepared	1: 06/07/07	' Analyzed	l: 06/08/07			
% Solids	83 3	%	-	97 1			15 3	20	
Duplicate (EF70801-DUP4)	So	urce: 7F06026-06	Prepared	l & Analyz	zed: 06/08/	07			
% Solids	97.0	%		97 1			0 103	20	
Batch EF71106 - General Preparation	n (WetChen	n)							
Blank (EF71106-BLK1)			Prepared	l & Analyz	zed: 06/11/	07 .			
Chloride	ND	20 0 mg/kg				· · · · · · · · · · · · · · · · · · ·			
LCS (EF71106-BS1)			Prepared	l & Analyz	zed: 06/11/	07			
Chloride	91 5	10 0 mg/kg			91 5	80-120			
Matrix Spike (EF71106-MS1)	So	urce: 7F06024-01	Prepared	l & Analyz	zed: 06/11/	07			
Chloride	447	20 0 mg/kg	Wet 500	63 8	76 6	80-120			QM-I
Matrix Spike Dup (EF71106-MSD1)	So	urce: 7F06024-01	Prepared	l & Analyz	zed. 06/11/				
Chloride	468	20 0 mg/kg	Wet 500	63 8	80.8	80-120	4 59	20	

Project Burgundy EMU Lease

2125 French Dr.

Project Number: 7-0201

Fax: (432) 367-6747

Hobbs NM, 88201

Project Manager: Cindy Crain

General Chemistry Parameters by EPA / Standard Methods - Quality Control **Environmental Lab of Texas**

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

Batch EF71106 - General Preparation (WetChem)

Reference (EF71106-SRM1) Prepared & Analyzed: 06/11/07 53 2 100 mg/kg Wet 50 0 Chloride 80-120 Ocotillo Environmental Project: Burgundy EMU Lease Fax: (432) 367-6747

2125 French Dr.Project Number: 7-0201Hobbs NM, 88201Project Manager: Cindy Crain

Notes and Definitions

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

matrix interference's.

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

QM-10 LCS/LCSD were analyzed in place of MS/MSD.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved B

Brent Barron, Laboratory Director/Corp. Technical Director

Celey D. Keene, Org. Tech Director

Raland K. Tuttle, Laboratory Consultant

Date: 6

James Mathis, QA/QC Officer

Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

A Xenco Laboratories Company

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 11 of 11

Environmental Lab of Texas

12600 West I-20 East

Phone: 432-563-1800

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Odessa, Texas 7976	5	Fax: 432-5	53-1713																							
Project Ma	anager:	Cindy Cra	ain											Pro	ject	Nam	e:	Виг	~qu	na	14 1	EMI	u L	eo:	se	
		Ocotillo C		mental															_		201					
		2125 Fred			O. Box	181	16						_	F	roje	ct Lo	c:	M	004	m	ent	, N	M			
		tobbs, Ni		•		•																				
		3) 441 - 75					12 0	7	2) ~		i ·		•							-						
Telepho	oue No: (202	1. 441-10	· 44		Fax No:		20	-)	<u> </u>	- Q	/4	-	-													
Sampler Sig	nature	Tiny Cre	un										-						An	alyze	For				7	
	Email: Ci	indy. Crain	@ gm	ail. com		-											TCLF		\Box	-	\Box					
						,		P	reserv	ative			Matr	ix	98			0		\dashv	8				L	-
283847															1006		603	Metals. As Ag Ba Cd Cr Pb Hg S			(BTEX 30218/8030 or BTEX 3260 RCI				adule	Standard TAT
2000				/		ſŝ									8015M)1005	la K)	Anions (Cf) SO4 CO3, HCO3) SAR / ESP / CEC	Cd Cr.		,	10 m				Sch	}
				peld	peldu	taine					ر ق			(Á)	8015	Mg. N	SO4 C	g Ba (. s	3/3030				T (Pre	Ā
1500026				Date Sampled	Time Sampled	of Containers					None Other (Specify)		_ a) (sbec	TPH: 418.1	Cations (Ca, Mg, Na K)	s (C)	S. As A	Sa	otatrie	3021	2			H H A	dard
LAB # (lab use only)		FIELD CODE		Date	Tıme	S.	lce	HNO	HCI NaOH	H ₂ SO ₄	None Other	Water	Sludge	Sail	TPH:	Cattor	SAR /	Metals	Votati	Semiv	E E	0 0			รกร	Stand
01	55-1	(0-1.)		6/6/07	0923	1	2							-	~	,										
02		(5-6')		1,	0926	1	<u> </u> -				_	<u>L</u>		1	-		1	_		<u></u>	4		_		_ _	11
03	<u>55-3</u>	(10-11)	`	٠,	0950	1	~	_				ļ	-	4		-	_			_ `	_	1-1			_ _	-
64	55-4	(15-16		"	1005	1	-		_ _	$\vdash \vdash$	_	┡		4	1	<u></u>	_	-		'	1	-	_			
95	<u>55-5</u>	(0-1)		1,	1015	<u>'</u>	レレ	\dashv	_	$\left \cdot \right $		┨—		1			1	+	\vdash		- -	+		$\left - \right $	- -	+
20	55-6	(5-6')		1030	-		-		+		\vdash		-			4	-	\vdash		-	+	-		- -	+
		VII. 1. VIII. 1						\dashv		+		╁		- -		\dashv	+	-	H	\dashv	1	1		\vdash	- -	+
	·							\dashv				†		1-		+	\dagger	+				1				
	······································	*****																							工	
Special Instructions:																5	Samp abels	le Co	ntain conta	ers l	ntact?	Lid	, V	ا (آھ	N S	
).												C	Custo	dv Se	eals.	Con	tainer	s / Co				
																						ι υ.	.0	-		
Relinquished by	7.	Date	Time	Received by								Di	ate		Time	: L	.abor	atory	/ Cor	nme	nts:					
Relinquished by	son	6/6/07 Date	1600 Time	Received by ELO		$\overline{\wedge}$	····				_	D	ate	<u> </u>	Time	\blacksquare										
veinidrigued nà		Date		(Md		de	N					6.6			6-01											
		1 , 1		1 1/1/1/00	wor or		-				9		J ,	16	v ~v(U I										

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client. Ocotillo Enu.			
ate/ Time: 6.6.01 16.00			
lient. Ocotillo Env. ate/Time: 6.6.07 16:00 ab ID# 7F06076			
nitials:			
Sample Receipt	Checklist		
	T		Client Initia
1 Temperature of container/ cooler?	Yes	No	O. D °C
2 Shipping container in good condition?	Yes	<u>No</u>	
3 Custody Seals intact on shipping container/ cooler?	Yes	No	Mot Present
4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
5 Chain of Custody present?	Yes	No	
6 Sample instructions complete of Chain of Custody?	(Fes.)	No	
7 Chain of Custody signed when relinquished/ received?	(es/	No	
8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont / Lid
9 Container label(s) legible and intact?	Yes	No	Not Applicable
10 Sample matrix/ properties agree with Chain of Custody?	Yes	No	
11 Containers supplied by ELOT?	Yes	No	
12 Samples in proper container/ bottle?	Yes	No	See Below
13 Samples properly preserved?	Yes	No	See Below
14 Sample bottles intact?	Yes	No	
15 Preservations documented on Chain of Custody?	Yes	No	
t16 Containers documented on Chain of Custody?	(e)	No	
17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below
All samples received within sufficient hold time?	Yes	No	See Below
19 Subcontract of sample(s)?	Yes	No	Not Applicable
20 VOC samples have zero headspace?	(Ye)s	No	Not Applicable
Variance Docu	mentation		
Contact: Contacted by:			Date/ Time:
Regarding:			
Corrective Action Taken:			
Check all that Apply: See attached e-mail/ fax Client understands and woul	d like to prod	eed with	ı analysis

Cooling process had begun shortly after sampling event

Analytical Report 284712

for

Ocotillo Environmental, LLC

Project Manager: Cindy Crane
Burgundy EMU Lease
7-0201

29-JUN-07





12600 West I-20 East Odessa, Texas 79765

NELAC certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America





29-JUN-07

Project Manager: Cindy Crane Ocotillo Environmental, LLC 2125 French Drive P.O. Box 1816 Hobbs, NM 88241

Reference: XENCO Report No: 284712

Burgundy EMU Lease

Project Address: Monument, NM

Cindy Crane:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 284712. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 284712 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



Sample Cross Reference 284712



Ocotillo Environmental, LLC, Hobbs, NM

Burgundy EMU Lease

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom (17')	S	Jun-20-07 09:40		284712-001
North Side	S	Jun-20-07 09:45		284712-002
South Side	S	Jun-20-07 09:50		284712-003
East Side	S	Jun-20-07 09:55		284712-004
West Side	S	Jun-20-07 10:00		284712-005



Certificate of Analysis Summary 284712

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease

Date Received in Lab: Thu Jun-21-07 02:55 pm

Report Date: 29-JUN-07 Project Manager: Brent Barron, II

Contact: Cindy Crane Project Location: Monument, NM

Project Id: 7-0201

	Lab Id:	284712-0	001	284712-0	002	284712-0	003	284712-	004	284712-	005	1
Analysis Requested	Field Id:	Bottom (17')	North Si	de	South S1	de	East St	de	West Si	de	
Analysis Requested	Depth:											
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Jun-20-07	09.40	Jun-20-07 (09 45	Jun-20-07 (09.50	Jun-20-07	09 55	Jun-20-07	10 00	
Inorganic Anions by EPA 300	Extracted:											
J g	Analyzed:	Jun-27-07	17 29	Jun-27-07	18.29	Jun-27-07 1	18 49	Jun-27-07	19.09	Jun-27-07	19 29	i
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	l]
Chloride		1920	0.582	1310	0 564	738	0 536	1010	0.539	865	0 541	
Percent Moisture	Extracted:											
i i i i i i i i i i i i i i i i i i i	Analyzed:	Jun-21-07	17 00	Jun-21-07	17 05	Jun-21-07	17·15	Jun-21-07	17 20	Jun-21-07	17 25	1
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		14 2		11 3	1 00	6 67	1 00	7 15	1.00	7 64	1 00	
TPH by SW8015 Mod	Extracted:	Jun-23-07	09 14	Jun-23-07 (09 14	Jun-23-07 (09.14	Jun-23-07	09·14	Jun-23-07	09 14	i
11 12 NJ S WOOLD 11100	Analyzed:	Jun-24-07	06 18	Jun-24-07 (06.43	Jun-24-07 (07:08	Jun-24-07	07 33	Jun-24-07	07 58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	l
C6-C12 Gasoline Range Hydrocarbons		ND	29 1	ND	28 2	75.6	26 8	ND	26.9	84 1	27 1	
C12-C28 Diesel Range Hydrocarbons		ND	29 1	ND	28.2	808	26 8	ND	26 9	727	27 1	
C28-C35 Oil Range Hydrocarbons		ND	29 1	ND	28.2	150	26 8	ND	26 9	146	27 1	
Total TPH		ND	-	ND		1033 6		ND		957 1		

This analytical report, and the entire data package it represents has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratorics XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the annount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Odessa Laboratory Director



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Phone Fax 11381 Meadowglen Lane Suite L Houston, Tx 77082-2647 (281) 589-0692 (281) 589-0695 9701 Harry Hines Blvd , Dallas, TX 75220 (214) 902 0300 (214) 351-9139 5332 Blackberry Drive, Suite 104, San Antonio, TX 78238 (210) 509-3334 (201) 509-3335 3016 U.S. HWY 301 North - Suite 900, Tampa, FL 33619 (813) 620-2000 (813) 620-2033 5757 NW 158th St, Miami Lakes, FL 33014 (305) 823-8500 (305) 823-8555



Form 2 - Surrogate Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 284712

Project ID: 7-0201

Lab Batch #: 699120

Sample: 284705-022 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg	SUI	RROGATE R	ECOVERY	STUDY	
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes		. ,	[D]		
1-Chlorooctadecane	45.4	50.0	91	70-135	
1-Chlorooctane	56.7	50.0	113	70-135	

Lab Batch #: 699120

Sample: 284705-022 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY									
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctadecane	42 9	50.0	86	70-135						
1-Chlorooctane	52.7	50.0	105	70-135						

Lab Batch #: 699120

Sample: 284712-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	RROGATE R	ECOVERY S	STUDY	
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	,		[D]	,	
1-Chlorooctadecane	40 3	50 0	81	70-135	-
1-Chlorooctane	40.3	50.0	81	70-135	

Lab Batch #: 699120

Sample: 284712-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY									
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags						
Analytes		[J	[D]								
1-Chlorooctadecane	40.2	50 0	80	70-135							
1-Chlorooctane	41 5	50.0	83	70-135							

Lab Batch #: 699120

Sample: 284712-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	[]	[-]	[D]	/ ***	
1-Chlorooctadecane	41 1	50.0	82	70-135	
1-Chlorooctane	42 6	50.0	85	70-135	

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 284712

Project ID: 7-0201

Lab Batch #: 699120

Sample: 284712-004 / SMP

Batch: 1 M

Matrix: Soil

SURROGATE RECOVERY STUDY Units: mg/kg Amount TPH by SW8015 Mod Recovery Limits Flags Found Amount %R %R [A] [B] m **Analytes** 75 70-135 1-Chlorooctadecane 37.7 50.0 1-Chlorooctane 38.8 50 0 78 70-135

Lab Batch #: 699120

Sample: 284712-005 / SMP

Batch:

Matrix: Soil

SURROGATE RECOVERY STUDY Units: mg/kg Amount TPH by SW8015 Mod Recovery Limits Flags Found Amount %R %R [A] [B] [D] **Analytes** 1-Chlorooctadecane 40.4 50.0 81 70-135

41.3

Lab Batch #: 699120

1-Chlorooctane

Sample: 496400-1-BKS / BKS

Batch:

50.0

Matrix: Solid

70-135

Units: mg/kg SURROGATE RECOVERY STUDY Amount TPH by SW8015 Mod Limits Found Amount Recovery Flags [A] [B] %R %R [D] Analytes 1-Chlorooctadecane 56 0 50.0 112 70-135 1-Chlorooctane 61.5 50.0 123 70-135

Lab Batch #: 699120

Sample: 496400-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg	SU	RROGATE RE	ECOVERY S	STUDY	
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctadecane	50.2	50.0	100	70-135	
I-Chlorooctane	46.9	50.0	94	70-135	
o-Terphenyl	ND	ND		70-135	*U

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 284712

Project ID:

7-0201

Lab Batch #: 699338

Sample: 699338-1-BKS

Matrix: Solid

Date Analyzed: 06/27/2007

Date Prepared: 06/27/2007

Analyst: LATCOR

Reporting Units: mg/kg Batch #: 1 BLANK /BLANK SPIKE RECOVERY ST Inorganic Anions by EPA 300 Blank Result Result Spike Spike Spike Spike Limits									
Inorganic Anions by EPA 300 Analytes	1					Flags			
Chloride ·	ND	10.0	9.95	100	75-125				

Lab Batch #: 699120

Sample: 496400-1-BKS

Matrix: Solid

Date Analyzed: 06/24/2007

Date Prepared: 06/23/2007

Analyst: SHE

Reporting Units: mg/kg

Ratch #•

TIL OPTION PROGRAMMING

Reporting Units: mg/kg	Batch #:	BLANK /	BLANK SPI	KE REC	OVERYS	STUDY
TPH by SW8015 Mod	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes	[A]	(13)	[C]	[D]	70IX	
C6-C12 Gasoline Range Hydrocarbons	ND	500	536	107	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	500	402	80	70-135	



Form 3 - MS Recoveries

Project Name: Burgundy EMU Lease



Work Order #: 284712

Lab Batch #: 699338

QC-Sample ID: 284705-028 S

Date Analyzed: 06/27/2007

Project ID: 7-0201

Date Prepared: 06/27/2007

Analyst: LATCOR

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	1	. ,				
Chloride	55.4	102	160	103	75-125	

Lab Batch #: 699338

Date Analyzed: 06/27/2007

Date Prepared: 06/27/2007 Analyst: LATCOR

QC- Sample ID: 284712-002 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1310	1130	1930	55	75-125	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

inelad:

Project Name: Burgundy EMU Lease

Work Order #: 284712

Project ID: 7-0201

Lab Batch ID: 699120 **Date Analyzed:** 06/24/2007

QC-Sample ID: 284705-022 S

Date Prepared: 06/23/2007

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

Analyst: SHE

Reporting Ollies. Ing/kg		N	IATRIX SPIK	E/MAT	KIX SPI	KE DUPLICA	TE REC	UVERY	STUDY		
TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	548	683	125	548	662	121	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	548	583	106	548	537	98	8	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*(D-G)/(D+G) Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery



Project Name: Burgundy EMU Lease

Work Order #: 284712

Lab Batch #: 699338

Date Analyzed: 06/27/2007

Project ID: 7-0201

06/27/2007 Analyst: LATCOR

QC- Sample ID: 284705-028 D

Batch #:

Matrix: Soil

Reporting Units: mg/kg	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chlonde	55,4	52.1	6	20	

Date Prepared:

Lab Batch #: 699338

Date Analyzed: 06/27/2007

Date Prepared: 06/27/2007

Analyst: LATCOR

QC- Sample ID: 284712-002 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg SAMPLE / SAMPLE DUPLICATE RECOVERY

Inorganic Anions by EPA 300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	1310	1280	2	20	

Lab Batch #: 698984

Date Analyzed: 06/21/2007

Date Prepared: 06/21/2007

Analyst: JLG

QC- Sample ID: 284705-015 D

Batch #:

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.37	1.50	9	20	

Lab Batch #: 699100

Date Analyzed: 06/21/2007

Date Prepared: 06/21/2007

Analyst: CELKEE

QC- Sample ID: 284712-002 D

Batch #:

Matrix: Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	11.3	11.6	3	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

Page	
12	
2	
ⅎ	

12600 West I-20 Ea Odessa, Texas 797	65 Fax 432-563-1713											HAIN	01-0	037	,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				,.			•		
Project #	Manager Cindy Crain						~						Proje	cl N	Difte	_£	ur.	que	ndy	<u>.</u> .	EΜ	ш.	Lea	SC	
Compa	my Name Ocotillo Covison	mestal												Pioje	ct#			Z:	-0	20	/		-		
	Address 2125 French Dr												Pro	yect	Loc		Mo	ŋμ	m	97	<i>‡</i> ,_	NA	1		
City/S	tale/Zip: Hobbs, NM 8	8241									_			F	0#										
Talepi	ione No (505) 441-7244		Fax No	_(15.	i	2	72 -	c:	304	_														
Sampler Si	one No (505) 441-7244 gnature (104) Sair	7																							
	Email Cindy. Crain @ g.	nail, cam		_									F		11	rir	T /	urafy	705	pr		-1-	1	-	
	7 2 3	10011		-			lese	ervativ	p	- T	Mi	atrix	-	. T	10	TAL	,	-							
284712 LAB#[lab use only) O1 O2 U3	Bottom (17') North Side South Side	6/20/07	04-60 04-60 04-60 04-60	- No of Containers	e 2 1 1 1 1 1 1 1 1 1		Ť	NaOH H.SO.	Nane	Other (Specify)	Shidge	105 1 1	Other (specify)	Caligns (Co Mg Na K,		SARIESPICEC	Volables	Semvolaties	BTE < 30218,5030 or BTE < 8250	яc	5000			RUSH FAT (Pre-Schedule	Spandard TAT
04	East Side	"	0955	,	-		_		L			-	_ :	1	-		_	Ļ			_		<u> </u>	- -	_
<u>05</u>	West Side	''	1000	1	۲	\vdash	-	+	\vdash	-	╀	-	+	1	-	-	-	\vdash	-			-		-	+
						\sqcap		1						1											
					_		1	1	L		-	\sqcup	\perp	\downarrow	<u> </u>	4	1	<u> </u> -			_	1_	\vdash	-	-
		 				\vdash	+		-	-	+	\vdash	+	-	┝	-	+	╁	-	\vdash			\vdash	+	t
Special Instructions;		J		L	1	I_L			1						Lab	nple (els or lody npera	con Seals	laine Co	r? ^o mlan	eis	/ Cod	olei	, A		.1
Relinquished by	1 Date Time 6/21/07 1455	Received by	ve d								Date		Tir	110	Lat	orato	ry C	מוזיונ	ents	,	- (O			

Environmental Lab of Texas
ance/ Corrective Action Report- Sample Log-In

Checklist	Na	Client	
258	Na		
	Nα		initial
Yes		-lo °cl	
	No		
Yes	No	Not Present	
Yes	No	NOT Present	
Yes	No		
Yes	No		
Yes	No		
Yes	No	IDawritten on Cont / Lid	
Yes	No	Not Applicable	
∠¥es	No		
	No		
		See Below	
	No	See Below	
Yes)	No		
Yes	No		
		See Below	
		See Below	
		Not-Applicable	
Yes	No	Not Applicable	
ımentation		Date/ Time	
uld like to see	anad with	a populare	
	Yes	Yes No	Yes No Met Present Yes No Not Present Yes No Not Present Yes No Not Present Yes No Not Applicable Yes No Not Applicable Yes No See Below Yes No Not Applicable Yes No Not Applicable

Environmental Lab of Texas

12600 West I-20 East

Phone: 432-563-1800

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Odessa, Texas 7976	35	ı	Fax: 432-5	63-1713																								
Project M	anager:	Cind	lu Cr	ain												Projec	t Na	ne:	Ŀ	341	qu.	ndy	/ 1	EN	NU L	Lea	50	•
	y Name		•																									
					ve, P.	0 Bax																			NN			
					•	U. DUX	101	(Q)								1 70,												
	ate/Zip:																PC) #:										
Teleph	one No: <u>(5</u>	05) +	141-76	244		Fax No:	_(4	36	2)	27	2-1	03	04	· 														
Sampler Sig	mature:		ishin	Sois)	٠																				·		
	Email	rindu	C.Coi	A 4.00	ail. com											-		TC	LP		Analy	yze F	or				-	
	Linan.	criby	CIAIT	i e gm	air com		-		_									101			士	1	1					
	Υ				T		I	_	F	reserv	/ative	}	-	M	atrix T	je je				g Se	'	9260					-	
284712 _AB# (lab use only)		FIELD) CODE		Date Sampled	Time Sampled	No of Containers	Ice	HNO3	HCI NaOH	H ₂ SO.	None	Other (Specify)	Water Sludge	Soil	Other (specify)	Cations (Ca, Mg, Na. K)	Anions (CpSO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles Semivolatiles	英		NORM			RUSH TAT (Pre-Schedu	Standard TAT
01	Bottom	(17	•)		4/20/07	0940	1	-							٢	-	1_	-							_ _		_ _	
07	North S	Side			',	0945	1	<u>ا</u>			_				-	-	1_	-		-	\perp						_ _	_
03	South			·	1,	0950)	1		_ _	ļ		_	_ _	<u>ا</u>	-	1_	~			_ _	4			,		_ _	-
04	East 9				"	0955	1	上			_		_	_ -	-	- -	1_	-			- -		_	-	_ _	-	_ _	\perp
05	West &	<u>Side</u>			11	1000	1	1		_ _	-		_ _	\perp	1	_ -	1	-		-	\dashv		1_1	\vdash	_	-	_ _	-
			·					_		_	-		-	-	-		-				+	+		-			- -	-
								\vdash			-		-	-	-				-		-	-	$\left - \right $		-	\vdash	- -	-
								-			+			\dashv	\vdash						-	-	-	┟─┼╴		+	- -	-
								-	\dashv		-		+		+		+	-		_	+	+-	+-1	┢═╋	-	┢┼	+	+-
pecial Instructions:					,			<u> </u>			<u> </u>	<u> </u>			J		1	Lab Cus	els d	n co Sea	ntaini Is. C	rs Inta ier? Contai in Red	<i>Oh</i> iners	Lid I Co	oler	W .	<u> </u>	
Relinquished by	rain		Date 4/21/07	Time 1455	Received by									Date		Tir		Lab	ora	ory (Comr	ment	s:	- (D			•
Relinquished by			Date	Time	Received by ELG)							Date		Tir 14												
					1 (Mo	hea of	er	<i>~</i> ~	_				Q-1	1.1.0	ı	114	د ر.											

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

te/Time 6.21.07 /41.55				
1D#· <u>284712</u>				
als <u>AL</u>				
Sample Receipt	Checklist			
	T ====		Client	Initials
Temperature of container/ cooler?	₹ 68	<u>No</u>	-1.0 °C	
Shipping container in good condition?	Yes	No_		
Custody Seals intact on shipping container/ cooler?	Yes	<u>No</u>	Not Present	
Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
Chain of Custody present?	Yes	No_		
Sample instructions complete of Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished/ received?	Yes	No_		
Chain of Custody agrees with sample label(s)?	Yes	No_	12 written on Cont./ Lid	
Container label(s) legible and intact?	Ves	No_	Not Applicable	
Sample matrix/ properties agree with Chain of Custody?	Yes	No_		
Containers supplied by ELOT?	Yes	No No	 	
Samples in proper container/ bottle?	Yes Yes	No	See Below	
3 Samples properly preserved? 4 Sample bottles intact?	Yes	No	See Below	
5 Preservations documented on Chain of Custody?	Yes	No		}
6 Containers documented on Chain of Custody?	Yes	No		
7 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
8 All samples received within sufficient hold time?	Yes	No	See Below	
9 Subcontract of sample(s)?	Yes	No	Not Applicable	
0 VOC samples have zero headspace?	Yes	No	Not Applicable	
Notact Contacted by:	mentation		Date/ Time:	
egarding orrective Action Taken:				
neck all that Apply: See attached e-mail/ fax Client understands and woul Cooling process had begun				

Analytical Report 285805

for

Ocotillo Environmental, LLC

Project Manager: Cindy Crain
Burgundy EMU Lease

7-0201

19-JUL-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America





19-JUL-07

Project Manager: Cindy Crain Ocotillo Environmental, LLC

2125 French Drive P.O. Box 1816 Hobbs, NM 88241

Reference: XENCO Report No: 285805

Burgundy EMU Lease

Project Address: Monument, NM

Cindy Crain:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 285805. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 285805 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



Sample Cross Reference 285805



Ocotillo Environmental, LLC, Hobbs, NM

Burgundy EMU Lease

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
West Side	S	Jul-11-07 12:12		285805-001
South Side	S	Jul-11-07 12:20		285805-002
Bottom	S	Jul-11-07 12:30	20 - 20	285805-003



Certificate of Analysis Summary 285805

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease



Project Id: 7-0201

Project Location: Monument, NM

Contact: Cindy Crain

Date Received in Lab: Wed Jul-11-07 03:15 pm

Report Date: 19-JUL-07

Project Manager: Brent Barron, II

								1 Toject Managett		
	Lab Id:	285805-0	01	285805-0	02	285805-0	03			
Analysis Requested	Field Id:	West Sto	le	South Sic	ie	Bottom	l			
Analysis Requested	Depth:				ĺ	20-20				
	Matrix:	SOIL		SOIL	1	SOIL				
	Sampled:	Jul-11-07 1	2 12	Jul-11-07 1	2.20	Jul-11-07 1	2.30	_		
Inorganic Anions by EPA 300	Extracted:									
g	Analyzed:	Jul-13-07 0	9.35	· Jul-13-07 0	9.35	Jul-13-07 0	9.35			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		<u> </u>	
Chloride		162	5 27	268	10 5	633	10 6			
Percent Moisture	Extracted:									
	Analyzed:	Jul-12-07 1	8.00	Jul-12-07 1	8.05	Jul-12-07 1	8:10			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		5.12		4 31		5 78				
TPH by SW8015 Mod	Extracted:	Jul-12-07 1	8.42	Jul-12-07 1	8 42	Jul-12-07 1	8:42 ,			
1111 by 5 17 6012 1.104	Analyzed:	Jul-13-07 1	9.45	Jul-13-07 2	0.10	Jul-13-07 2	0 34			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
C6-C12 Gasoline Range Hydrocarbons		ND	10 5	ND	10.5	ND	10 6			
C12-C28 Diesel Range Hydrocarbons		75 0	10.5	36 8	10.5	45.9	10 6			
C28-C35 Oil Range Hydrocarbons		34 9	10 5	21.6	10.5	25 3	10 6			
Total TPH		109.9		58.4		71.2				
Total 1PH		109.9		58.4		71.2			<u></u>	<u> </u>

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no wairanty to the end use of the data hereby presented. Our liability is firmted to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron
Odessa Laboratory Director

EGNCO Udenteries

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

 The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Fax 11381 Meadowglen Lane Suite L Houston, Tx 77082-2647 (281) 589-0692 (281) 589-0695 (214) 902 0300 9701 Harry Hines Blvd, Dallas, TX 75220 (214) 351-9139 (210) 509-3334 5332 Blackberry Drive, Suite 104, San Antonio, TX 78238 (201) 509-3335 (813) 620-2000 2505 N. Falkenburg Rd., Tampa, FL 33619 (813) 620-2033 (305) 823-8500 (305) 823-8555 5757 NW 158th St, Miami Lakes, FL 33014



Form 2 - Surrogate Recoveries





Work Order #: 285805

Project ID: 7-0201

Lab Batch #: 700656

Sample: 285714-008 S / MS

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctadecane	32.6	50.0	65	70-135	*		
1-Chlorooctane	40 9	50.0	82	70-135			

Lab Batch #: 700656

Sample: 285714-008 SD / MSD

Matrix: Soil Batch: 1

Units: mg/kg

SURROGATE	RECOVERY	STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	32.8	50.0	66	70-135	*
1-Chlorooctane	38.3	50.0	77	70-135	

Lab Batch #: 700656

Sample: 285805-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
Analytes			1~1						
1-Chlorooctadecane	33.6	50.0	67	70-135	**				
1-Chlorooctane	35.3	50.0	71	70-135					

Lab Batch #: 700656

Sample: 285805-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	RROGATE R	ECOVERY S	STUDY
TPH by SW8015 Mod	Amount	True		Control

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	33.9	50.0	68	70-135	**
1-Chlorooctane	36.0	50.0	72	70-135	

Lab Batch #: 700656

Sample: 285805-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount- [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctadecane	36.2	50.0	72	70-135			
1-Chlorooctane	38.2	50.0	76	70-135			

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

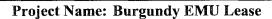
Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries





Work Order #: 285805

Project ID: 7-0201

Lab Batch #: 700656

Sample: 497156-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctadecane	35 1	50.0	70	70-135			
1-Chlorooctane	41 4	50 0	83	70-135			

Lab Batch #: 700656

Sample: 497156-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctadecane	38.6	50.0	77	70-135				
1-Chlorooctane	39.3	50.0	79	70-135				

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 285805

Project ID:

7-0201

Lab Batch #: 700568

Sample: 700568-1-BKS

Matrix: Solid

Date Analyzed: 07/13/2007

Date Prepared: 07/13/2007

Analyst: LATCOR

Ratch #:

Reporting Units: mg/kg	BLANK/BLANK SPIKE RECOVERY					
Inorganic Anions by EPA 300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	%R	
Chloride	ND	10.0	9.95	100	75-125	

Lab Batch #: 700656

Sample: 497156-1-BKS

Matrix: Solid

Date Analyzed: 07/13/2007

Date Prepared: 07/12/2007

Analyst: CELKEE

Reporting Units: mg/kg	Batch #:	Batch #: 1 BLANK /BLANK SPIKE RECOVERY STUDY							
TPH by SW8015 Mod	Blank Result	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags			
Analytes	[A]	[[D]	[C]	[D]	/0K				
C6-C12 Gasoline Range Hydrocarbons	ND	500	527	105	70-135	}			
C12-C28 Diesel Range Hydrocarbons	ND	500	426	85	70-135	İ			



Form 3 - MS Recoveries

Project Name: Burgundy EMU Lease



Work Order #: 285805

Lab Batch #: 700568

07/13/2007

Project ID: 7-0201

Date Analyzed: 07/13/2007

Date Prepared:

Analyst: LATCOR

QC- Sample ID: 285714-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY							
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag		
Chloride	107	138	247	101	75-125			

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B) All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Burgundy EMU Lease



Work Order #: 285805

Lab Batch ID: 700656 Date Analyzed: 07/13/2007

Date Prepared: 07/12/2007

Project ID: 7-0201

QC- Sample ID: 285714-008 S

1 Matrix: Soil

CELKEE Analyst:

Batch #:

suting United to mar/le

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
TPH by SW8015 Mod Analytes	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	522	539	103	522	506	97	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	522	428	82	522	418	80	2	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*(D-G)/(D+G) Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery



Project Name: Burgundy EMU Lease

Work Order #: 285805

Lab Batch #: 700568 **Date Analyzed:** 07/13/2007 Project ID: 7-0201

Date Prepared: 07/13/2007

QC-Sample ID: 285714-001 D

Analyst: LATCOR

Batch #:

Matrix: Soil

Reporting Units: mg/kg	SAMPLE / SAMPLE DUPLICATE RECOVERY								
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag				
Analyte	[]	[B]							
Chloride	107	104	3	20					

Lab Batch #: 700234

Date Analyzed: 07/12/2007

Date Prepared: 07/12/2007

Analyst: JLG

QC-Sample ID: 285794-001 D

Batch #:

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Reporting Onto. 70	GAIVII LE	SAMILE BUILDANE RECOVER							
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag				
Analyte		[B]							
Percent Moisture	7.58	7.49	1	20					

Environmental Lab of Texas

A Xenco Laboratories Company

Odessa, Texas 79765 12600 West I-20 East

432-563-1713 Phone: 432-563-1800

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Project Loc: Project #:

P0 #:

Report Format: Standard

TRRP

☐ NPDES

TAT brebnet

M.A.O.N

BCI

:HdT

:HGT

None

1220 1230

20

7/11/07

eOsssbN HOBN OS^zH нсі [€]ONH

RUSH TAT (Pre-Schodule) 24, 48, 72 hrs

B1EX 8021B/2030 of B1EX 8260

Metsla. Ya Yû Ba Cq Ct bp Hû 2e

9001 XT

80158

Matrix

Preservation & # of Containers

(M2108

Зресіў Оілег

SAR / ESP / CEC (Aujous (CD 204' Alkalinity)

Cations (Ca, Mg, Na, K)

2001 XT

1.814

Ofher (Specify)

Total #. of Containers Filtered

Time Sampled

Date Sampled

Ending Depth

FIELD CODE

South Side

Bottor

Side

NPS+

Beginning Depth

(Vino esu dai),# 8A

Time

Date

Received by.

Time

Special Instructions:

v

Received by

Time

Date

Relinquished by

Time

Date

Date コニのコ

Analyze For:

TCLP. TOTAL:

Pindy, crain (d Amail. com

Fax No:

-174

505

Telephone No:

Sampler Signature:

Box

6.0

French Dr

2125

Company Address:

Project Manager:

Company Name

 $\sum_{i \in \mathcal{I}}$

Habbs.

City/State/Zip:

NVICO MMENTE

e-mail:

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

	Variation Convolue Motion (Act	Jort- Gampi	ic Log-ii	1	
Client:	Ocotillo Enu.				•
Date/ Time	7.11.07 15:15			0	
Lab ID # :	2858 <i>0</i> S				
Initials:	al				
	Sample Receipt	Checklist			
		тт			ent Initials
	rature of container/ cooler?	Yes	No	G.O °C	
	g container in good condition?	(Yes)	No		
	/ Seals intact on shipping container/ cooler?	Yes	No	Not Present	
	Seals intact on sample bottles/ container?	Yes	<u>No</u>	Not Present	
	f Custody present?	Yes	No_		
	instructions complete of Chain of Custody?	Yes	No		
	f Custody signed when relinquished/ received?	(es)	No_		
	f Custody agrees with sample label(s)?	Yes	<u>No</u>	ID written on Cont/ Lld	
	er label(s) legible and intact?	Yes	<u>No</u>	Not Applicable	
	e matrix/ properties agree with Chain of Custody?	Yes	No		
	ners supplied by ELOT?	Yes	<u>No</u>		
	es in proper container/ bottle?	Yes	No	See Below	
	es properly preserved?	Yes	<u>No</u>	See Below	
	e bottles intact?	Yes	<u>No</u>		
	vations documented on Chain of Custody?	Yes	<u>No</u>		
#16 Contai	ners documented on Chain of Custody?	Yes	No		
	ent sample amount for indicated test(s)?	Yes	No	See Below	
#18 All san	nples received within sufficient hold time?	(es/	No	See Below	
	ntract of sample(s)?	Yes	No_	Not Applicable	
#20 VOC s	amples have zero headspace?	Yes)	No	Not Applicable	
0 4 4	Variance Docum	nentation			
Contact:	Contacted by:			Date/ Time:	
Regarding:					
r togaranig.		· · · · · · · · · · · · · · · · · · ·			
		++			
Corrective A	ction Taken:				
					
Check all the	at Apply: See attached e-mail/ fax				
	Client understands and would	like to proc	eed with	analysis	
	Cooling process had begun s				
	Lui	and	-amping	OTOIL	

Analytical Report 287734

for

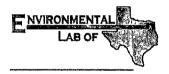
Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Burgundy EMU Lease

7-0201

18-AUG-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America







18-AUG-07

Project Manager: Cindy Crain Ocotillo Environmental, LLC 2125 French Drive P.O. Box 1816 Hobbs, NM 88241

Reference: XENCO Report No: 287734

Burgundy EMU Lease

Project Address: Lea County, NM

Cindy Crain:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 287734. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 287734 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Brent Barron

Odessa Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



Certificate of Analysis Summary 287734

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease

melad

Project Id: 7-0201

Contact: Cindy Crain

Project Location: Lea County, NM

Date Received in Lab: Fri Aug-10-07 03.15 pm

Report Date: 18-AUG-07

Project Manager: Brent Barron, II

								I TOJECT MIAI	inger.	Dient Barron,	**	
	Lab Id:	287734-0	001	287734-00	02	287734-0	03	287734-0	004	287734-0	05	
Art alamin Bananadad	Field Id:	SS-1 Bot	tom	S-2 (North Side V	Vall Com	SS-3 (West Side V	Vall Comp	SS-4 (South Side	Wall Com	SS-5 (East Side W	all Comp	
Analysis Requested	Depth:	20-20 1	ft		}							
	Matrix:	SOIL		SOIL		SOIL	1	SOIL	,	SOIL		
	Sampled:	Aug-09-07	09.16	Aug-09-07 1	0.01	Aug-09-07	10.40	Aug-09-07	10 22	Aug-09-07	09 41	
Percent Moisture	Extracted:											
T OCCUPATION CONTRACT	Analyzed:	Aug-13-07	11 15	Aug-13-07 (9.20	Aug-13-07	16 19	Aug-14-07	18 30	Aug-14-07	18·35	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	ı
Percent Moisture		5,62		7.91		7.16		3 63		3 6		
TPH by SW8015 Mod	Extracted:					Aug-15-07	16.17					
	Analyzed:					Aug-17-07	14:31					
	Units/RL:					mg/kg	RL					
C6-C12 Gasoline Range Hydrocarbons						ND	108					
C12-C28 Diesel Range Hydrocarbons					Ì	104	108			1		
C28-C35 Oil Range Hydrocarbons						110	10 8					
Total TPH						115						
Total Chloride by EPA 325.3	Extracted:											
Com Chaine by Mr A Salis	Analyzed:	Aug-15-07	16 26	Aug-15-07	16.26			Aug-15-07	16.26	Aug-15-07	16:26	i
	Units/RL:	mg/kg	RL	mg/kg	RL			mg/kg	RL	mg/kg	RL	
Chloride		180	15.9	624	16.3			66.2	15 6	221	15.6	

This analytical report, and the entire data package it represents, has been made tor your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order ruless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron Odessa Laboratory Director

ICNCO Laborelories

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

 The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

	Phone	Fax
11381 Meadowglen Lane Suite L Houston, Tx 77082-2647	(281) 589-0692	(281) 589-0695
9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(201) 509-3335
2505 N. Falkenburg Rd., Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St. Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease



Work Order #: 287734

Project ID: 7-0201

Lab Batch #: 702521

Sample: 287690-002 S / MS

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes		1	[D]					
1-Chlorooctadecane	40.6	50.0	81	70-135				
1-Chlorooctane	43.1	50.0	86	70-135				

Lab Batch #: 702521

Sample: 287690-002 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
Analytes			[12]					
1-Chlorooctadecane	42.7	49.8	86	70-135				
1-Chlorooctane	38.0	49.8	76	70-135				

Lab Batch #: 702521

Sample: 287734-003 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctadecane	47.1	50.1	94	70-135			
1-Chlorooctane	42.7	50.1	85	70-135			

Lab Batch #: 702521

Sample: 498276-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctadecane	41.8	50.0	84	70-135			
1-Chlorooctane	40,8	50.0	82	70-135			

Lab Batch #: 702521

Sample: 498276-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY												
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags								
Analytes			[D]										
1-Chlorooctadecane	38.9	50.0	78	70-135									
1-Chlorooctane	35.2	50.0	70	70-135									

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{***} Poor recoveries due to dilution



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 287734

Project ID:

7-0201

Lab Batch #: 702521

Sample: 498276-1-BKS

Matrix: Solid

Date Analyzed: 08/16/2007

Date Prepared: 08/15/2007

Analyst: SHE

Reporting Units: mg/kg	Batch #: 1	BLANK /	BLANK SP	IKE RE	COVERY	STUDY
TPH by SW8015 Mod	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes	11	1~1	[C]	[D]		
C6-C12 Gasoline Range Hydrocarbons	ND	500	471	94	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	500	456	91	70-135	1

Lab Batch #: 702308

Sample: 702308-1-BKS

Matrix: Solid

Date Analyzed: 08/15/2007

Date Prepared: 08/15/2007

Analyst: IRO

Reporting Units: mg/kg

DI ANIZ DI ANIZ COTTE DECOVEDY CTUDY

Keporting Omts. mg/kg	Baten #: 1	BLANK /	BLANK SP.	IKE KE	LUVERY	SIUDY
Total Chloride by EPA 325.3	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	% R [D]	%R	
Chlonde	11.7	50.0	59.6	96	75-125	



Form 3 - MS / MSD Recoveries

Project Name: Burgundy EMU Lease



Work Order # 287734

Project ID: 7-0201 Matrix: Soil

Lab Batch ID: 702521

QC- Sample ID: 287690-002 S

Batch #:

Date Analyzed: 08/17/2007

Date Prepared: 08/15/2007

SHE Analyst:

Reporting Units: mg/kg

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY														
TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag				
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD					
C6-C12 Gasoline Range Hydrocarbons	531	512	498	0	510	ND	0	NC	70-135	35	X				
C12-C28 Diesel Range Hydrocarbons	411	512	369	0	510	ND	0	NC	70-135	35	X				

Lab Batch ID: 702308

QC-Sample ID: 287734-001 S

Batch #:

Matrix: Soil

Date Analyzed: 08/15/2007

Date Prepared: 08/15/2007

Analyst:

IRO

Reporting Units: mg/kg		M	ATRIX SPIKI	E / MATI	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Total Chloride by EPA 325.3	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	180	265	428	94	265	428	94	0	75-125	30	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*(D-G)/(D+G) Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery



Project Name: Burgundy EMU Lease

Work Order #: 287734

Lab Batch #: 702246

08/13/2007

Project ID: 7-0201

Date Analyzed: 08/13/2007

Date Prepared:

Analyst: JLG

QC- Sample ID: 287690-001-D

Batch #:

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Tropos and Cintos	SAMI LE	OTALVEL LINE	DOLLIC	THIL HAD	OVER
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte	[]	[B]			
Percent Moisture	5.16	4.34	17	20	

Lab Batch #: 702265

Date Analyzed: 08/14/2007

08/14/2007 Date Prepared:

1

Analyst: JLG

QC- Sample ID: 287734-004 D

Batch #:

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

	Drivin BE	OZENIE LIL	DOX DIC	TIL ICE	OVER
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte	l (A)	[B]		703.2	
Percent Moisture	3.63	3.87	6	20	

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

Phone: 432-563-1800 Fax: 432-563-1713

TAT brebnets Burgundy EMULease □ NPDES SUSH TAT (Pre-Schedule) 24, 48 72 nrs 25.0 J ☐ TRRP MAON H RCI Labels on container(s) id or Custody seals on container(s) Custody seals on cooler(s) Temperature Upon Receipt. Sample Containers Intact? VOCs Free of Headspace? by Sample Client Rep. 7 by Couner? UPS B1EX 80518/2030 of B1EX 8560 レーのなの一 Laboratory Comments: Sample Hand Delivered гешкованег Analyze 2 Standard 00 Metals As Ag Ba Cd Cr Pb Hg Se TCLP SAR / ESP / CEC TOTAL Anions (Cl., SO4, Alkalinity) Project Name: Project Loc: ₩0 Project #: Cations (Ca, Mg, Na, K) Report Format: 9001 XT 2001 XT HqT -151-5-Time Ime 8015M 80158 1814 HdT VP=Non-Potable CW = Groundwater S=Soil/Solid W -08-10-07 OM=Druking Water SL=Studge Date Date Ofher (Specify) cındy craın@gmail com enoM 7 1 Ng₂S₂O₃ HOEN "OS"H (432)272-0304HCI €ОИН ခ၁၂ 222/9504 Total # of Containers ield Filtered Fax No: e-mail: 10:22 10140 10:01 14:6 Time Sampled Received by ELOT 2010-0 8-6-07 8-9-07 8-5-01 8-9-07 Received by Received by Date Sampled BO Ending Depth Ì Ime Time Time 1515 M 3 Beginning Depth Ocotillo Environmental, LLC 8/10/07 East Side wall comp) Date West Tirle Carno (Seelth Side WAll any Hobbs, NM 88241 North Side (505) 441-7244 PO Box 1816 Cindy Crain Botton ると FIELD CODE 7 Company Address: Sampler Signature: Project Manager: Company Name Telephone No: $\mathcal{C}_{\mathcal{O}}$ City/State/Zip: 5 2 55.5 Special Instructions: 50 アン n 50 n Relinquished by lab use only ORDER #: -0C 8 500-8 100 (klno esu del) # 8AJ

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

lient.	Ocotillo				
ate/ Time	08-10-07@1515				
ab ID#	287734				
nitials:	JMF				
	Sample Receipt 0	Checklist	•	(Client Initials
1 Temper	ature of container/ cooler?	Yes)	No	25.0 °C	
2 Shipping	g container in good condition?	Yes	No		
	Seals intact on shipping container/ cooler?	Yes	No	Not Present	
4 Custody	Seals intact on sample bottles/ container?	Yes	No	Not Present	
5 Chain o	f Custody present?	Yes >	No		
6 Sample	instructions complete of Chain of Custody?	(es)	No		
7 Chain o	f Custody signed when relinquished/ received?	(Yes)	No		
8 Chain o	f Custody agrees with sample label(s)?	Yes	No	1D written on Cont/ Lid	
	er label(s) legible and intact?	Yes	No	Not Applicable	
	e matrix/ properties agree with Chain of Custody?	Yes	No		
	ners supplied by ELOT?	∠ Yes >	No		
·	es in proper container/ bottle?	(Yes >	No	See Below	
	es properly preserved? * I sample for TPH not cold	Yes	No	* See Below	
	5 DOLLIES III.act;	Yes>	No		
	vations documented on Chain of Custody?	Yes	No		
	ners documented on Chain of Custody?	(Yes)	No		
	ent sample amount for indicated test(s)?	Yes	No	See Below	
	pples received within sufficient hold time?	(Yes)	No	See Below	
	ntract of sample(s)?	Yes	N 0	Not Applicable	
20 VOC s	amples have zero headspace?	Yes	No	Not Applicable	
	Variance Docum	nentation			
Contact [.]	Ciny Crain Contacted by: Jean	nne Fitc	4	Date/ Time:	08-10-0701
Regarding:	temperature for TPH				
`orrootivo A	ction Taken:				
onective A	Clion Taken.				

Check all tha	at Apply: See attached e-mail/ fax				
		l like to prod	eed with	analysis	
	Client understands and would Cooling process had begun s	=		=	



PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88241 FAX TO: (432) 272-0304

Receiving Date: 09/04/07 Reporting Date: 09/06/07 Project Number: 7-0200

Project Name: ENU LEASE

Project Location: LEA COUNTY, NM

Analysis Date: 09/06/07 Sampling Date: 09/04/07 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: KS

CI

 LAB NO.
 SAMPLE ID
 (mg/Kg)

 H13225-1
 SS-6
 432

 Quality Control
 500

 True Value QC
 500

 % Recovery
 100

 Relative Percent Difference
 < 0.1</td>

METHOD: Standard Methods 4500-CIB

Note: Analysis performed on a 1:4 w:v aqueous extract.

Mister Suprobo Chemist

Date

H13225 OCO



PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL LLC

ATTN: CINDY CRAIN P.O. BOX 1816

HOBBS, NM 88241

FAX TO: (432) 272-0304

Receiving Date: 09/04/07

Reporting Date: 09/05/07 Project Owner: BURGUNDY

Project Name: ENU LEASE

Project Location: LEA COUNTY, NM

Sampling Date: 09/04/07

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: BC

GRO

DRO

 $(C_6 - C_{10})$

 $(>C_{10}-C_{28})$

LAB NUMBER SAMPLE ID

(mg/Kg)

(mg/Kg)

ANALYSIS DATE:	09/04/07	09/04/07
H13225-2 SS-7	<10.0	<10.0
	-	
Quality Control	771	779
True Value QC	800	800
% Recovery	96.4	97 4
Relative Percent Difference	3.7	4.0

METHOD: SW-846 8015 M

Date

H13225A OCOTILLO



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	Ocotillo Envivonne	en	HA	12	1	C			·	18	3/1/	LTO			***************************************				AN	ALY	SIS	RE	QUE	ST			·
Project Managei	Cipdy Crain							P.0). # <i>.</i>										T								
Address: عالم	Ocotillo Environme Cindy Crain S French Pr.							Co	mpa	any:	0	cofil	1/0								- 1						
City: Hob,	bs State: VM	Z ip	ع :	38	24	0		Att	n:					_													
Phone #: 505	bs State: NM -441-7244 Fax #: 432-	-2	フス	- 0	30	4		Ad	dres	ss;													ĺ				
Project #: 7-	0200 Project Owne	r:B	urs	·4/	de	· _		Cit	y:							\rightarrow											
Project Name:	ENULease							Sta	ite:		2	Zip:			.	Z											
Project Location	Lea County NN	1						Ph	one	#:					Ι.	3					1						
Sampler Name:	SteveCannon							Fax	x #:						\ \ .	2											
FORTABUSEONLY					MA	TRI	Х		PRE	SER	۲V	SAMPL	ING			2											
Lab I.D.	Sample I.D.	A (G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	отнек	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	0110/10	1000	ONH (O					J						
H13275-1	55- Le		L		L	+					ľ	9-04-0	9.55	4	+												
-7	55-7	Ch	1		L					4		il	10:05	_	2												
		-																									
				_		<u> </u>	ļ_				_		-	_					_	_ _							
					_					_	_			_	_ _					_				-	_		
					_	-	-				_			_	-				-	-				 		-	
		-	_		-	-					_				-				-		_			-	-	-	-
				\dashv	-	+	-				-1				- -					-				-	-		
9		-				+-							 	-	-	-			-	-				 	-	-	_
	ul Damages Cardinal's liability and client's exclusive remedy for																·		<u></u>								
service. In no event shall Ca	ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, litcludh	ıg wilhot	ıt limita	tion, b	i azəmet	nterrup	ptions, 1	oss of	use, c	r loss o	of prof	fils incurred by	client, its subsid	lanes,	cable												
affiliates or successors arising Relinquished By	ng out of or related to the performance of services hereunder by Date:		regar ceiv			er such	ı claim	s bas	ed upo	n any c	of the	above stated r	Phone R			Yes	<u> </u>	No	:Add	'l Pho	one #:		 				
	Time.	-											Fax Res			res		No		'l Fax							
		<u> </u>			<u></u>									4	`つ	つ -		フ	7 –	<u>/</u>)	3 6	4	•				
Relinguished B	7-4-01 Time:	Re	ceiv	ed _	Βy: -	7])			_	7	PCARTETE SOLVE STORY	7.	مر		-		~ -		<u>.</u> ۲	<i>-</i> /					
Delivered By:	(Circle One)	Ц	<i></i> `		Sampl				Γ.	CHE	gki	ED BY:	1														
4	- Bus - Other:				Cgol NYe	Int es [Z lo [act Yes No	S)	2	X.	fittia	als)		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					····					***********			



PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88241 FAX TO: (432) 272-0304

Receiving Date: 10/02/07 Reporting Date: 10/04/07 Project Number: 7-0200

Project Name: ENU LEASE
Project Location: LEA COUNTY, NM

Analysis Date: 10/03/07 Sampling Date: 10/02/07 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: SB

Analyzed By: KS

CI

 LAB NO.
 SAMPLE ID
 (mg/Kg)

 H13422-1
 SS-8
 32

 Quality Control
 500

 True Value QC
 500

 % Recovery
 100

METHOD: Standard Methods 4500-Cl B

Note: Analysis performed on a 1:4 w:v aqueous extract.

Relative Percent Difference

Busta Suploto Chemist

< 0.1



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: Ocotillo En vonmental LCC Project Manager: Cindy Crain Address: 2125 French Dr.											3//	LTO		·	C BILL TO ANALYSIS REQUEST													
Project Manage	" Cindy Crain			· · · · · ·				P.C	D. #.													*						
Address: 21	125 French Dr.							Со	mpa	any	Ö	10+1110	·				-								1			g garage
City: Hobk	State: NA	Zip:	8	8	34	٥		Att																				
Phone #. 505-	-441-7244 Fax #: 432	-27	2	-0	34	Ü		Ad	dre	ss:																		D) Koran
Project #: 7-	State: NM -441-7244 Fax #: 432 -0200 Project Owne	r: Bij	145	CIR	dy			Cit	y:												l					ĺ		in Property
								State: Zip:													Ì							Per Lichard
Project Location	Location: Les County NM.								one	#:			-														Š	
Sampler Name:	Name: ENG Lease Location: Lea County NM. r Name: Steve Cannon MATRI								x #:					1														
FOR LAB USE ONLY				_	MA	TRI	T		PRI	SE	RV.	SAMPLI	NG	-													ĺ	
Lab I.D.	Sample I.D.	G)RAB OR (C)OMI	# CONTAINERS	GROUNDWATER	TEWATER		SLUDGE	OTHER	/BASE	ICE / COOL	ER.			Moria														
		G)PV	Ō Q	SRO	WAS	8	SLUC	THE	(CID)	CE/	OTHER	DATE	TIME	0														
14/3422-1	55-8	a	7		2	-	0,		7	_		7ن-ني-ن7	10:07									A THE		1				
														<u> </u>	ļ	_			_	_			ļ					
		_]		-		+-	-												-				-					
				_	+			-											-				-	-	_ -			
				-		+	-	-							-	-			-	- -				-				
			-	-	-	+-	-	-				•							-	- -			-	-				
			_	7		1	1													-				-				
						T																						
analyses All claims Includii	nd Damages. Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall be	deemed v	walve	d unles	ss made	ın wilt	ing and	i rece	ived by	Card	ınal w	ithin 30 days afte	r completion of t	the applica	ible													
affiliates or successors arisin	ardinal be liable for incidental or consequental damages, including out of or related to the performance of services hereunder by	og without i Cardinal, r	limitat regard	ion, bu lless o	siness I whethe	nterrup er such	tions, i claim	oss of Is bas	use, o ed upo	or loss on any	of the	olits incurred by o above stated re	sent, its subsidia	ines, ise		Ves	1874			U DL.		<u> </u>						
Relinetrished B	18-2-0	Z Rec	eiv 1	ea r	3γ:								Fax Resu	ilt:	Lin	Yes		No	'Add	l'i Fax	x #:	+-						
There(anse 4:15 At	SAC	121	D	en	20-	2/8		11	1	4	:15 pm	REMARK	.s: 4—					-		~ (2 ^ 6	·L					
Relin q uished By	ng out of or related to the performance of services hereunder by Date: Concept Conce	Rec	eiv	ed I	3γ:		7						Fax	سلسل	4	36) -	2	1/2	4-6	02	7 Ο'	C					
	Time												1		•													
Delivered By:	: (Circle One)				ampl			ion				ED BY:																
Sampler UPS	- Bus - Other:				COOI Ye	9-	- Yes			St	3	als)																·