# Ocotillo ENVIRONMENTAL

Dirt Work • On-Site Remediation • Soil Testing • Excavation

October 11, 2006

Mr. Chris Williams New Mexico Oil Conservation Division – District I 1625 North French Drive Hobbs, New Mexico 88240



Status Marjo Operating Company, Inc., Sunray State #11, Unit Letter L (NW/4, SW/4), Section 11, Township 10 South, Range 32 East, Lea County, New Mexico

Dear Mr. Williams:

#### Background

Re:

On September 28, 2005, a Letter of Violation (LOV) was received by Marjo Operating Co. (Marjo) from the New Mexico Oil Conservation Division (NMOCD) for the above referenced facility. The issues included certain housekeeping issues, suspected contamination from the old reserve pit and impact from an apparent brine release east of the tank battery. The NMOCD requested that a C-141 form be filed and a Corrective Action Plan (CAP) prepared. Gary J. Rowell, Inc coordinated submission of the C-141 which was filed on October 4, 2005, a copy of which is included in Appendix A. Figure 1 presents a site location and topographic map.

Gary J. Rowell Inc. further recommended that a local consultant be retained to coordinate and respond to the remaining issues of the LOV. Accordingly, Marjo retained Ocotillo Environmental, LLC (Ocotillo) which has been responsible for all subsequent field activity, notifications and report preparation. The CAP was submitted to the NMOCD on October 28, 2005. Marjo received approval of the CAP on November 15, 2005. The CAP approval addressed various housekeeping responsibilities and required horizontal and vertical delineation and a Remediation plan.

Debris at the Site and visibly impacted soil around the heater treater was removed, a firewall was constructed around the tank battery, and samples were collected for delineation. On March 16, 2006, a Remediation Plan was submitted to the NMOCD that proposed leaving the reserve pit area undisturbed, excavating the top three (3) feet of soil in the tank battery area, blending with clean soil and backfilling. The Remediation Plan was approved on March 20, 2006, with the requirement that the area east of the tank battery be delineated until chlorides consistently decreased with depth to below 250 milligrams per kilogram (mg/kg).

Soil samples were collected from the area east of the tank battery on March 22, 2006, from a depth of approximately five (5) feet below ground surface (bgs). On April 4, 2006, additional soil samples were collected from the area at a depth of approximately fifteen (15) feet bgs. Laboratory results from these soil samples indicated that those efforts did not reach the NMOCD required delineation levels for chloride. Figure 2 shows the locations of the sample points.

Application -pPACO714237928

P.O. Box 1816 • Hobbs, NM 88241 Office (505) 393-6371 • Fax (505) 393-6374 Mr. Chris Williams Page 2 October 11, 2006

#### **Current Investigation**

On August 14, 2006, Ocotillo installed six (6) soil borings at the Site (BH-1 through BH-6) using an air rotary drilling rig to assess the vertical and horizontal limits of the spill. BH-6 was installed as a background sample approximately 59 feet northeast of the northeast corner of the spill area. Split spoon samples were collected from exploratory borings BH-1, BH-3 and BH-4 from ground surface to a depth of approximately 27 feet bgs, and from borings BH-2, BH-5 and BH-6 to a depth of approximately 22 feet bgs, The sampling equipment was thoroughly cleaned between soil boring locations with a solution of laboratory-grade detergent and potable water, and rinsed with distilled water. A duplicate of each sample was field tested for chloride concentrations. Table 1 shows the field chloride results. All soil borings were plugged with bentonite. Figure 2 shows the locations of the soil borings. Soil Boring Logs are included in Appendix B.

Wet soil was encountered in all soil borings at a depth of approximately 20 to 30 feet bgs, where drilling was stopped. Referring to Table1, soil samples collected from borings BH-1, BH-2 and BH-6 reported chloride concentrations below the delineation standard of 250 mg/kg. Samples collected from borings BH-3, BH-4 and BH-5 reported chloride concentrations above 250 mg/kg (846 mg/kg [BH-3], 3,550 mg/kg [BH-4], and 410 mg/kg [BH-5]) at the deepest point, immediately above wet soil.

The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to Environmental Lab of Texas (ELOT), in Odessa, Texas. All soil samples collected from borings BH-1 through BH-6 were analyzed for chlorides by EPA method 300. Table 1 presents a summary of laboratory analysis of soil samples. Soil boring logs are included in Appendix B. Laboratory analyses and chain of custody documentation are included in Appendix C.

#### **Proposed Additional Delineation Activity**

Borings will be re-drilled at locations BH-3 (BH-3a), BH-4 (BH-4a) and BH-5 (BH-5a) to complete the vertical delineation. Soil samples will be collected in five foot intervals from a depth of 30 feet bgs at boring BH-3a and 4a and from 25 feet bgs at BH-5a until field chloride analyses indicate concentrations below 250 mg/kg. It is anticipated that BH-3a or 4a will be completed as a monitoring well within the wet zone (MW-1). Field conductivity and/or TDS may be conducted to determine if the wet zone is groundwater or perched brine. If the wet zone is natural groundwater then Marjo will install an additional boring (BH-7) in an upgradient position to the tank battery. If saturated soil is encountered in BH-7, the boring will be completed as a monitoring well to establish the groundwater background parameters (MW-2). If the liquid in MW 1 is brine, BH-7 will not be drilled and any additional monitoring wells will be installed within the current area of investigation directly east of the tank battery.

Monitoring wells will be bailed after installation to remove fine-grained sediment disturbed during drilling. A groundwater sample will be collected from each well within 48 hours, and analyzed for anions, cations and total dissolved solids (TDS). All samples will be labeled, chilled in an ice chest, and delivered under chain-of-custody control to ELOT for chloride analysis. Depth-to-groundwater will be measured in the monitoring wells before the wells are purged and sampled. The groundwater samples will be collected using dedicated disposable polyethylene bailers, and carefully poured into laboratory-prepared containers. The sample containers will be labeled, immediately chilled in an ice chest, and transferred under chain-of-custody

Mr. Chris Williams Page 3 October 11, 2006

control to ELOT. The field observations will be documented in a bound field notebook, and a construction diagram and geologic log will be prepared for each monitoring well. Monitoring well MW-1 (BH-3a or 4a) will be completed as a four (4) inch diameter PVC monitoring well. Other monitoring wells will be constructed with two (2) inch diameter PVC. Approximately 15 feet of well screen will be placed in each well, with approximately 10 feet of screen extending into groundwater, and 5 feet extending above groundwater.

Silica sand will be placed around the well screen to about 2 feet above the screen. The monitoring wells will be surveyed by a registered professional surveyor for X,Y and Z coordinates as well as relevant site features for site map scaling.

Notification will be provided to the NMOCD at least 48 hours prior to any activity at the Site. A report with an updated Remediation Plan, based upon findings of this activity, will be submitted to the NMOCD following completion of these additional delineation activities.

We appreciate your cooperation. Please call Mr. Gary Rowell at (918) 645-1467, or at Marjo (918) 583-0241, extension 215, or myself at (505) 441-7244 if you have any questions. We may also be reached by email at <u>garyr@marjoop.com</u> or cindy.crain@gmail.com.

Sincerely, Ocotillo Environmental, LLC.

Cindy K. Crain

Cindy K. Crain, P.G.

Encl.

cc: Mr. Brian Keefer – Marjo Operating Company Inc Mr. Gary Rowell – Gary J. Rowell, Inc Mr. Paul Sheeley – NMOCD, District I Mr. Larry Johnson – NMOCD, District I TABLE

## Table 1: Summary of Laboratory Analysis of Soil Samples Marjo Operating, Sunray State #11 SWD Unit Letter L, Section 11, Township 10 South, Range 32 East Lea County, New Mexico

				page 1 of 1
Borehole	Sample Date	Sample Depth	Chloride	Field Chloride
Number	Sample Date	(feet BGS)	mg/kg	mg/kg
	Standard (WQC	'C)	250	
BH-1	8/14/2006	5-7'	157	84
	8/14/2006	10-12'	499	221
	8/14/2006	15-17'	329	147
	8/14/2006	20-21'	219	39
	8/14/2006	25-27'	87.4	65.0
BH-2	8/14/2006	5-7'	21.8	10
	8/14/2006	10-12'	51.9	34
	8/14/2006	15-17'	136	70
	8/14/2006	20-22'	237	153
BH-3	8/14/2006	10-12'	8,170	>648
	8/14/2006	15-17'	4,320	>648
	8/14/2006	20-22'	2,110	>648
	8/14/2006	25-27'	846	516
BH-4	8/14/2006	10-12'	16,400	>648
	8/14/2006	15-17'	11,000	>648
	8/14/2006	20-22'	8,720	>648
	8/14/2006	25-27'	3,550	>648
BH-5	8/14/2006	5-7'	3,810	>648
	8/14/2006	10-12'	2,670	>648
	8/14/2006	15-17'	263	>648
	8/14/2006	20-22'	410	247
BH-6	8/14/2006	5-7'	213.0	
	8/14/2006	10-12'	128.0	
	8/14/2006	15-17'	57.1	
	8/14/2006	20-22'	31.0	

Notes:

Laboratory analyses performed by Environmental Lab of Texas, Inc. Odessa, Texas Depth in feet below ground surface

1. BGS:Depth in feet below ground2. mg/kg:Milligrams per kilogram

3.---: No data available

# FIGURES







		Graphic Scale in Feet	_
	0'	15'	30'
	-	Scale: 1" = 15'	
		FIGURE #2	
	L	EA COUNTY, NEW MEXICO	)
N	MA	RJO OPERATING COMPANY	Y, INC.
E		Sunray State 11 SWD #1	
s		U.L.L, Sec.11, T10S, R32E	
E: 09-28-06		Site Drawing with Laboratory Chloride Analysis	
AE: CHH			
JECT NO. :		Ocotillo	

N33°27.539' W103°38.943'

(5-7) 157 (10-12) 499 (15-17) 329 (20-21) 219 (25-27) 87.4

## APPENDIX A

**Release Notification and Corrective Action Form (C-141)** 

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TD:14322720304 P:3/3

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District J 1623 N-HTeach Dr., Hobbs, NM 88240 District J	xico ral Resources	Form C-141 BUICES Revised October 10, 2003						
130) W. Grand Avenue, Artesia, NM 88210			Submit 2 Copies to appropriate					
Dis <u>trict III</u> 1000 Rio Brazos Road, Aztec, NM 87410	Oil Conservation E			District Office in accordance				
District IV 1220 S. St. Francis Dr., Sama Fe, NM 87505	1220 South St. Fra			with Rule 116 on back side of form				
1220 S. SE Francis DE Sama Fe, NM 87505	Santa Fe, NM 8	7505						
Releas								
	OPER			al Report D Final Report				
Name of Company MARIO Operating		Brian Keet		K Meudor				
	240 Tulsa Telephon 74/01 Facility T							
Facility Name Sunray State 11540#	/ 74/0/ Facility T	ype <u>Asposal</u>	(Nell					
Surface Owner Cer/ L. Johnson	Mineral Owner		Lease N	lo.				
	LOCATION OF R			······································				
	et from the North/South Line	Feet from the	East/West Line	County				
UL-L 11 Tros R32E	unk unk	UNK	UNE	Lea				
Latitu	de Longit	nde						
Type of Release Brine	NATURE OF RE	of Release UNKL	Volume R	expressed A (0) -				
Source of Release UNKNOWN at this				Hour of Discovery UNK				
Was Immediate Notice Given?		To Whom?						
	> 🗌 Not Required	NA						
By Whom? NA		Hour NA						
Was a Watercourse Reached?	I YES,	Volume Impacting th	e Watercourse.					
If a Watercourse was Impacted, Describe Fully.*		NA	····-					
NA NA								
Describe Cause of Problem and Remedial Action Ta	ken.*			_				
	ling - Site ins For de	be de la	ance CO.	ordinated				
p)enc	(INg - DITC. INS	pection D						
/	for de	evelopment.	ot Cosiec	The Action Plan				
Describe Ates Affected and Cleanin Action Taken. <sup>4</sup>	r							
aira around tank	bottons and C	vell head						
and diound fame	. Ruir i aire a							
I hereby certily that the information given above is 0 regulations all operators are required to report and/or								
public health or he environment. The acceptance of	a C-141 report by the NMOCD	marked as "Final Ren	ort" does not relie	eve the operator of liability				
should their operations have failed to adequately invi- or the cavillageent. In addition, NMOCD acceptance	catigate and remediate contamin	ation that pose a threa	it to ground water,	, surface water, human health				
federal, strictorylocal laws and/or regulations.	e of a C-141 report does not reli	eve the operator of ne	sponsibility for co	mpliance with any other				
OIL CONSERVATION DIVISION								
M2								
Signature:								
Printed Name: MARLE. MEADON	y District Supervisor							
Tille Prasident	Approval I	late:	Expiration I	Jute;				
B-mail Address: Marker Marjo op. Com 918	Conditions	of Approval:		Attached				
Date: 10/4/2005 Phone:	583024/							
* Attach Additional Sheets If Necessary	· · · · · · · · · · · · · · · · · · ·	<u></u>		۰				
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# APPENDIX B

## Soil Boring Logs

Project: Sunray State #11 SWD

Project No.: 6-0501

# Location: Tatum, New Mexico, U.L. L, Sec.11, T10S, R32E

# Log: BH-1

	SUE	SURFACE PROFILE	S	AMPL	Æ		
Depth	Symbol	Description	Number Type Recovery		PID ppm 2 10 18	Analytical Data	
0 —		Ground Surface					
		Silty Sand Reddish-brown, fine grained, moderately well sorted, loose	1				5-7' bgs Chloride: 157 mg/kg
 10 		Silty Sand Light tan, moderately well sorted, loose	2				Field Chloride: 84 mg/kg 10-12' bgs Chloride: 499 mg/kg Field Chloride: 221 mg/kg
  20	· · · · · · · · · · · · · · · · · · ·		3				15-17' bgs Chloride: 329 mg/kg Field Chloride: 147 mg/kg
			4				20-21' bgs Chloride: 219 mg/kg Field Chloride: 39 mg/kg
		Gravelly Silty Sand Golden brown, fine grained, poorly sorted, moist	5				25-27' bgs Chloride: 87.4 mg/kg Field Chloride: 65 mg/kg
30		Wet at 30'					
		TD: 32'					
40							
50							
Dri	ll Meth	od: Air Rotary	Ocot	illo			Elevation: N/A
	ll Date: le Size:	08/14/06	2125 French Drive Hobbs, New Mexico 88240 (505) 393-6371			38240	Checked by: CKC Drilled by: Scarborough Drilling

Project: Sunray State #11 SWD

Project No.: 6-0501

Location: Tatum, New Mexico, U.L. L, Sec.11, T10S, R32E

# Log: BH-2

	SUE	SURFACE PROFILE	S	SAMPI	Æ		
Depth	Symbol	Description	Number	Type	Recovery	PID ppm 2 10 18	Analytical Data
0		Ground Surface					
		Silty Sand Light tan, fine grained, moderately well sorted, loose, damp					
_			1				5-7' bgs Chloride: 21.8 mg/kg Field Chloride: 10 mg/kg
10			2	11			10-12' bgs Chloride:51.9 mg/kg Field Chloride: 34 mg/kg
-			3				15-17' bgs Chloride: 136 mg/kg Field Chloride: 70 mg/kg
20 —			4				20-22' bgs Chloride: 237 mg/kg Field Chloride: 153 mg/kg
		Gravelly Silty Sand Golden brown, fine grained, poorly sorted, wet TD: 27'					
30		(10.2)					
40							
50							
Dril	l Metho	od: Air Rotary	Ocot	illo			Elevation: N/A
Drill Date: 08/14/06 Hole Size:			2125 French Drive Hobbs, New Mexico 8824( (505) 393-6371			88240	Checked by: CKC Drilled by: Scarborough Drilling

P P	Client: Marjo Operating Company, Inc.Log: BH-3Project: Sunray State #11 SWDProject No.: 6-0501Project No.: 6-0501Page: 1 of 1Location: Tatum, New Mexico, U.L. L, Sec.11, T10S, R32EGeologist: Cindy Crain										
n	SUI	BSURFACE PROFILE	ĿΕ								
Depth	Symbol	Description	Number	Type	Recovery	PID ppm 2 10 18	Analytical Data				
		Inside (middle) of excavation at 6' bgs. Silty Sand Light tan, fine grained, moderately well sorted, loose, dry Gravelly Silty Sand Golden brown, fine grained, poorly sorted, wet TD: 27'	1 2 3 4				10-12' bgs Chloride: 8,170 mg/kg Field Chloride: >648 mg/kg 15-17' bgs Chloride: 4,320 mg/kg Field Chloride: >648 mg/kg 20-22' bgs Chloride: 2,110 mg/kg Field Chloride: >648 mg/kg 25-27' bgs Chloride: 846 mg/kg Field Chloride: 516 mg/kg				
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Project: Sunray State #11 SWD

Project No.: 6-0501

Location: Tatum, New Mexico, U.L. L, Sec.11, T10S, R32E

# Log: BH-4

	SUI	SURFACE PROFILE	S	SAMPL	Æ		
Depth	Symbol	Description	Number	Type	Recovery	PID ppm 2 10	Analytical Data
0 —		Inside (west side) of excavation at 6' bgs	•				
		Silty Sand Light tan, fine grained, moderately well sorted, loose, dry	1				10-12' bgs Chloride:16,400 mg/kg Field Chloride: >648 mg/kg
20 —			2				15-17' bgs Chloride:11,000 mg/kg Field Chloride: >648 mg/kg 20-22' bgs
		Moist at 25'	4				Chloride:8,720 mg/kg Field Chloride: >648 mg/kg 25-27' bgs Chloride: 2,550 mg/kg
30 — 		Gravelly Silty Sand Golden brown, fine grained, poorly sorted, wet TD: 27'	-				Chloride: 3,550 mg/kg Field Chloride: >648 mg/kg
40							
Dri	ll Meth	od: Air Rotary	Ocot	tíllo			Elevation: N/A
Drill Date: 08/14/06 Hole Size:				2125 French Drive Hobbs, New Mexico 88240 (505) 393-6371			Checked by: CKC Drilled by: Scarborough Drilling

Project: Sunray State #11 SWD

Project No.: 6-0501

Location: Tatum, New Mexico, U.L. L, Sec.11, T10S, R32E

# Log: BH-5

	SUE	SURFACE PROFILE	S	AMPL	Æ		
Depth	Symbol	Description	Number	Type	Recovery	PID ppm 2 10 18	Analytical Data
0		Ground Surface					
		Silty Sand Light tan, fine grained, moderately well sorted, loose, dry					
			1				5-7' bgs Chloride: 3,810 mg/kg Field Chloride: >648 mg/kg
10 			2				10-12' bgs Chloride: 2,670 mg/kg Field Chloride: >648 mg/kg
			3				15-17' bgs Chloride: 263 mg/kg Field Chloride: >648 mg/kg
20			4				20-22' bgs Chloride: 410 mg/kg Field Chloride: 247 mg/kg
_		Gravelly Silty Sand Golden brown, fine grained, poorly sorted, wet TD: 27'					
30 —							
40							
50							
Dri	ll Metho	od: Air Rotary	Ocot	illo			Elevation: N/A
Drill Date: 08/14/06 Hole Size:				2125 French Drive Hobbs, New Mexico 88240 (505) 393-6371			Checked by: CKC Drilled by: Scarborough Drilling

-4	Pr Pr	oject: oject	Marjo Operating Company, Sunray State #11 SWD No.: 6-0501 on: Tatum, New Mexico, U.I	R32E	<b>Log: BH-6</b> Page: 1 of 1 Geologist: Cindy Crain			
•		SUI	BSURFACE PROFILE	S	SAMPL	Æ		
-	Depth	Symbol	Description	Number	Type	Recovery	PID ppm 2 10 18	Analytical Data
0			Ground Surface					
*	I I		Silty Sand Light tan, fine grained, moderately well sorted, loose, dry					
*				1				5-7' bgs Chloride: 213 mg/kg
10 				2				10-12' bgs Chloride: 128 mg/kg
a A				3				15-17' bgs Chloride: 57.1 mg/kg
·** 20				4				20-22' bgs Chloride: 31.0 mg/kg
-ret -ret			Gravelly Silty Sand Golden brown, fine grained, poorly sorted, wet TD: 27'					
* 30								
*								
• 40	) (							
- 50		11 Mart-	ode Ain Dotom:	Occ	l <u> </u>			Elevation: N/A
Drill Method: Air RotaryOcotilloElevation: N/ADrill Date: 08/14/062125 French Drive Hobbs, New Mexico 88240Checked by: CKCHole Size:0505) 393-6371Drilled by: Scarborough Drilli								

## APPENDIX C

# Laboratory Reports

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# **Analytical Report**

## Prepared for:

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

Project: Marjo Sunray State #11 SWD Project Number: 6-0501 Location: Tatum, NM

Lab Order Number: 6H16008

Report Date: 08/21/06

Ocotillo Environmental 2125 French Dr. Hobbs NM, 88201 Project: Marjo Sunray State #11 SWD Project Number: 6-0501 Project Manager: Cindy Crain Fax: (432) 367-6747

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 5-7	6H16008-01	Soil	08/14/06 08:54	08-16-2006 11:07
BH-1 10-12'	6H16008-02	Soil	08/14/06 08:59	08-16-2006 11:07
BH-1 15-17 <sup>*</sup>	6H16008-03	Soil	08/14/06 09:04	08-16-2006 11:07
BH-1 20-22'	6H16008-04	Soil	08/14/06 09:10	08-16-2006 11:07
BH-1 25-27	6H16008-05	Soil	08/14/06 10:17	08-16-2006 11:07
BH-2 5-7	6H16008-06	Soil	08/14/06 10:47	08-16-2006 11:07
BH-2 10-12'	6H16008-07	Soil	08/14/06 10:53	08-16-2006 11:07
BH-2 15-17	6H16008-08	Soil	08/14/06 10:59	08-16-2006 11:07
BH-2 20-22'	6H16008-09	Soil	08/14/06 11:05	08-16-2006 11:07
BH-3 10-12'	6H16008-10	Soil	08/14/06 12:20	08-16-2006 11:07
BH-3 15-17	6H16008-11	Soil	08/14/06 12:26	08-16-2006 11:07
BH-3 20-22	6H16008-12	Soil	08/14/06 12:29	08-16-2006 11:07
BH-3 25-27'	6H16008-13	Soil	08/14/06 12:32	08-16-2006 11:07
BH-4 10-12'	6H16008-14	Soil	08/14/06 12:46	08-16-2006 11:07
BH-4 15-17	6H16008-15	Soil	08/14/06 12:53	08-16-2006 11:07
BH-4 20-22'	6H16008-16	Soil	08/14/06 12:59	08-16-2006 11:07
BH-4 25-27	6H16008-17	Soil	08/14/06 13:03	08-16-2006 11:07
BH 5-5-7	6416008-18	Soil	08/14/06 13:22	08-16-2006 11:07
BH-5 10-12'	6H16008-19	Soil	08/14/06 13:29	08-16-2006 11.07
BH-5 15-17	6H16008-20	Soil	08/14/06 13:33	08-16-2006 11:07
BH-5 20-22'	6H16008-21	Soil	08/14/06 13:40	08-16-2006 11:07
BH-6 5-7'	6H16008-22	Soil	08/14/06 13:59	08-16-2006 11:07
BH-6 10-12'	6H16008-23	Soil	08/14/06 14:03	08-16-2006 11:07
BH 6-15-17	6H16(X)8 21	Soit	08/14/06 14:07	08-16-2006 11:07
<b>県長 (- 20-22)</b>	AH174(418-25	Sait	08/14/06 14:20	08-16-2006 11:07

#### General Chemistry Parameters by EPA / Standard Methods

#### **Environmental Lab of Texas**

	Reporting							
Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
157	25.0	mg/kg	50	EH61803	08/17/06	08/17/06	EPA 300.0	
499	25.0	mg/kg	50	EH61803	08/17/06	08/17/06	EPA 300.0	
329	10.0	mg/kg	20	EH61803	08/17/06	08/17/06	EPA 300.0	
219	10.0	mg/kg	20	EH61803	08/17/06	08/17/06	EPA 300.0	
87.4	5.00	mg/kg	10	EH61803	08/17/06	08/17/06	EPA 300.0	
21.8	5.00	mg/kg	10	EH61803	08/17/06	08/17/06	EPA 300.0	
51.9	10.0	mg/kg	20	EH61803	08/17/06	08/17/06	EPA 300.0	
136	10.0	mg/kg	20	EH61803	08/17/06	08/17/06	EPA 300.0	
237	10.0	mg/kg	20	EH61803	08/17/06	08/17/06	EPA 300.0	
8170	100	mg/kg	200	EH61803	08/17/06	08/17/06	EPA 300.0	
4320	50.0	mg/kg	100	EH61803	08/17/06	<b>08</b> /17/ <b>0</b> 6	EPA 300.0	
	157 499 329 219 87.4 21.8 51.9 136 237 8170	157       25.0         499       25.0         329       10.0         219       10.0         87.4       5.00         21.8       5.00         51.9       10.0         136       10.0         237       10.0         8179       100	Result         Limit         Units           157         25.0         mg/kg           499         25.0         mg/kg           329         10.0         mg/kg           219         10.0         mg/kg           87.4         5.00         mg/kg           51.9         10.0         mg/kg           136         10.0         mg/kg           136         10.0         mg/kg           8179         100         mg/kg	Result         Limit         Units         Dilution           157         25.0         mg/kg         50           499         25.0         mg/kg         50           329         10.0         mg/kg         20           219         10.0         mg/kg         20           87.4         5.00         mg/kg         10           21.8         5.00         mg/kg         10           51.9         10.0         mg/kg         20           136         10.0         mg/kg         20           237         10.0         mg/kg         20           8170         100         mg/kg         20	Result         Limit         Units         Dilution         Batch           157         25.0         mg/kg         50         EH61803           499         25.0         mg/kg         50         EH61803           329         10.0         mg/kg         20         EH61803           219         10.0         mg/kg         20         EH61803           87.4         5.00         mg/kg         10         EH61803           21.8         5.00         mg/kg         10         EH61803           51.9         10.0         mg/kg         20         EH61803           136         10.0         mg/kg         20         EH61803           237         10.0         mg/kg         20         EH61803           8170         100         mg/kg         20         EH61803	Result         Limit         Units         Dilution         Batch         Prepared           157         25.0         mg/kg         50         EH61803         08/17/06           499         25.0         mg/kg         50         EH61803         08/17/06           329         10.0         mg/kg         20         EH61803         08/17/06           219         10.0         mg/kg         20         EH61803         08/17/06           87.4         5.00         mg/kg         10         EH61803         08/17/06           11.8         5.00         mg/kg         10         EH61803         08/17/06           11.8         5.00         mg/kg         10         EH61803         08/17/06           11.8         5.00         mg/kg         20         EH61803         08/17/06           11.8         5.00         mg/kg         20         EH61803         08/17/06           136         10.0         mg/kg         20         EH61803         08/17/06           237         10.0         mg/kg         20    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EH61803         08/17/06         08/17/06           327         10.0         mg/kg         20         EH61803         08/17/06         08/17/06           3136         10.0         mg/kg         20         EH61803         08/17/06         08/17/06           3179<th>Result         Limit         Units         Dilution         Batch         Prepared         Analyzed         Method           157         25.0         mg/kg         50         EH61803         08/17/06         08/17/06         EPA 300.0           499         25.0         mg/kg         50         EH61803         08/17/06         08/17/06         EPA 300.0           329         10.0         mg/kg         20         EH61803         08/17/06         08/17/06         EPA 300.0           219         10.0         mg/kg         20         EH61803         08/17/06         08/17/06         EPA 300.0           87.4         5.00         mg/kg         10         EH61803         08/17/06         08/17/06         EPA 300.0           21.8         5.00         mg/kg         10         EH61803         08/17/06         08/17/06         EPA 300.0           51.9         10.0         mg/kg         20         EH61803         08/17/06         08/17/06         EPA 300.0           136         10.0         mg/kg         20         EH61803         08/17/06         08/17/06         EPA 300.0           237         10.0         mg/kg         20         EH61803         08/17/06         &lt;</th></th>	Result         Limit         Units         Dilution         Batch         Prepared         Analyzed           157         25.0         mg/kg         50         EH61803         08/17/06         08/17/06           499         25.0         mg/kg         50         EH61803         08/17/06         08/17/06           329         10.0         mg/kg         20         EH61803         08/17/06         08/17/06           219         10.0         mg/kg         20         EH61803         08/17/06         08/17/06           87.4         5.00         mg/kg         10         EH61803         08/17/06         08/17/06           1136         10.0         mg/kg         10         EH61803         08/17/06         08/17/06           21.8         5.00         mg/kg         10         EH61803         08/17/06         08/17/06           3136         10.0         mg/kg         20         EH61803         08/17/06         08/17/06           327         10.0         mg/kg         20         EH61803         08/17/06         08/17/06           3136         10.0         mg/kg         20         EH61803         08/17/06         08/17/06           3179 <th>Result         Limit         Units         Dilution         Batch         Prepared         Analyzed         Method           157         25.0         mg/kg         50         EH61803         08/17/06         08/17/06         EPA 300.0           499         25.0         mg/kg         50         EH61803         08/17/06         08/17/06         EPA 300.0           329         10.0         mg/kg         20         EH61803         08/17/06         08/17/06         EPA 300.0           219         10.0         mg/kg         20         EH61803         08/17/06         08/17/06         EPA 300.0           87.4         5.00         mg/kg         10         EH61803         08/17/06         08/17/06         EPA 300.0           21.8         5.00         mg/kg         10         EH61803         08/17/06         08/17/06         EPA 300.0           51.9         10.0         mg/kg         20         EH61803         08/17/06         08/17/06         EPA 300.0           136         10.0         mg/kg         20         EH61803         08/17/06         08/17/06         EPA 300.0           237         10.0         mg/kg         20         EH61803         08/17/06         &lt;</th>	Result         Limit         Units         Dilution         Batch         Prepared         Analyzed         Method           157         25.0         mg/kg         50         EH61803         08/17/06         08/17/06         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Environmental Lab of Texas

Ocotillo Environmental	Project:	Marjo Sunray State #11 SWD	Fax: (432) 367-6747
2125 French Dr.	Project Number:	6-0501	
Hobbs NM, 88201	Project Manager:	Cindy Crain	

#### General Chemistry Parameters by EPA / Standard Methods

		Environ	nental I	ab of Te	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
BH-3 20-22' (6H16008-12) Soil									
Chloride	2110	25.0	mg/kg	50	EH61803	08/17/06	08/17/06	EPA 300.0	
BH-3 25-27' (6H16008-13) Soil									
Chloride	846	20.0	mg/kg	40	EH61803	08/17/06	08/17/06	EPA 300.0	
BH-4 10-12' (6H16008-14) Soil						1 1 1 1			
Chloride	16400	200	mg/kg	400	EH61803	08/17/06	08/17/06	EPA 300.0	
BH-4 15-17' (6H16008-15) Soil									
Chloride	11000	200	mg/kg	400	EH61803	08/17/06	08/17/06	EPA 300.0	
BH-4 20-22' (6H16008-16) Soil	······································								
Chloride	8720	100	mg/kg	200	EH61803	08/17/06	08/17/06	EPA 300.0	
BH-4 25-27' (6H16008-17) Soil									
Chloride	3550	50.0	mg/kg	100	EH61803	08/17/06	08/17/06	EPA 300.0	
BH-5 5-7' (6H16008-18) Soil									
Chloride	3810	50.0	mg/kg	100	EH61803	08/17/06	08/17/06	EPA 300.0	
BH-5 10-12' (6H16008-19) Soil									
Chloride	2670	50.0	mg/kg	100	EH61804	08/17/06	08/18/06	EPA 300.0	
BH-5 15-17' (6H16008-20) Soil									
Chloride	263	20.0	mg/kg	40	EH61803	08/17/06	08/17/06	EPA 300.0	
BH-5 20-22' (6H16008-21) Soil									
Chloride	410	10.0	mg/kg	20	EH61804	08/17/06	08/18/06	EPA 300.0	
BH-6 5-7' (6H16008-22) Soil									
Chloride	213	10.0	mg/kg	20	EH61804	08/17/06	08/18/06	EPA 300.0	

Environmental Lab of Texas

### General Chemistry Parameters by EPA / Standard Methods

#### Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-6 10-12' (6H16008-23) Soil									
Chloride	128	10.0	mg/kg	20	EH61804	08/17/06	08/18/06	EPA 300.0	
BH-6 15-17' (6H16008-24) Soil									
Chloride	57.1	5.00	mg/kg	10	EH61804	08/17/06	08/18/06	EPA 300.0	
BH-6 20-22' (6H16008-25) Soil									
Chloride	31.0	5.00	mg/kg	10	EH61804	08/17/06	08/18/06	EPA 300.0	

Environmental Lab of Texas

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EH61803 - Water Extraction							. 181 1			
Blank (EH61803-BLK1)				Prepared &	Analyzed:	08/17/06				
Chloride	ND	0.500	mg/kg							
LCS (EH61803-BS1)				Prepared &	Analyzed:	08/17/06				
Chloride	10.5	0.500	mg/kg	10.0		105	80-120			
Calibration Check (EH61803-CCV1)				Prepared &	z Analyzed:	08/17/06				
Chloride	10.6	ii	mg/L	10.0		106	80-120			
Duplicate (EH61803-DUP1)	Sou	rce: 6H16008	-06	Prepared &	Analyzed:	08/17/06				
Chloride	18.7	5.00	mg/kg	adalahan biri ing dalam dalam dalam biring dalam biring dalam dalam dalam dalam dalam dalam dalam dalam dalam d	21.8			15.3	20	
Duplicate (EH61803-DUP2)	Sou	rce: 6H16008	-09	Prepared &	2 Analyzed:	08/17/06				
Chloride	229	10.0	mg/kg		237			3,43	20	
Matrix Spike (EH61803-MS1)	Sou	rce: 6H16008	-06	Prepared &	k Analyzed:	08/17/06				
Chloride	121	5.00	mg/kg	100	21.8	99.2	80-120			
Matrix Spike (EH61803-MS2)	Sou	rce: 6H16008	-09	Prepared &	analyzed:	08/17/06				
Chloride	450	10.0	mg/kg	200	237	106	80-120			
Batch EH61804 - Water Extraction										
Blank (EH61804-BLK1)				Prepared &	k Analyzed:	08/18/06				
Chloride	ND	0.500	mg/kg							
LCS (EH61804-BS1)				Prepared &	z Analyzed:	08/18/06				
Chloride	9.72	0.500	mg/kg	10.0		97.2	80-120			

Environmental Lab of Texas

## General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EH61804 - Water Extraction										
Calibration Check (EH61804-CCV1)				Prepared &	z Analyzed:	08/18/06				
Chloride	9.69		mg/L	10.0		96.9	80-120			
Duplicate (EH61804-DUP1)	Sour	ce: 6H16008	-19	Prepared &	Analyzed:	08/18/06				
Chloride	2580	50.0	mg/kg		2670			3.43	20	
Duplicate (EH61804-DUP2)	Sour	ce: 6H16008	-22	Prepared &	Analyzed:	08/18/06				
Chloride	204	10.0	mg/kg		213			4.32	20	
Matrix Spike (EH61804-MS1)	Sour	ce: 6H16008	-19	Prepared &	Analyzed:	08/18/06				
Chloride	3820	50.0	mg/kg	1000	2670	115	80-120			
Matrix Spike (EH61804-MS2)	Sour	ce: 6H16008	-22	Prepared &	2 Analyzed:	08/18/06				
Chloride	433	10.0	mg/kg	200	213	110	80-120			

Environmental Lab of Texas

Ocotillo Er 2125 Frenc Hobbs NM		Project: Project Number: Project Manager:		Fax: (432) 367-6747
		Notes and De	finitions	
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above the reporting limit			
NR	Not Reported			

RPD Relative Percent Difference

Sample results reported on a dry weight basis

- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

dry

Raland K Juits

8/21/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

Date:

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.

Report Approved By:

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST	"" Mac o Suncay State #115WD	1#: 6-0501	oc: Tatum, NM	P0 #:		Analyze For:	1CLP:	09	Ад Ва Са Сс Рь Ну в В/5030 ог 8ТЕХ 92 71 {Pre-Schedule 71 {Pre-Schedule	Metals: As A Semvolatile Semvolatile RCI RCI A RCI A RCI A RCI											Sample Containers Intact? C A Labels on container? Y O Custody Seals: Containers / Cooler Temperature Upon Receipt. 23,0	Laboratory Gomments:	fre place	wf label
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Environmental Lab of Texas 2600 West I-20 East Phone: 432-563-1800 Ddessa, Texas 79765 Fax: 432-563-1713	Cotille Coviri	2125 French Drive.	Hobs NN	505)7441-7344	Cindy. Prair @			Field code		6 (5.71)	(10-12))	(15.17)	(20-22')					7/16/06         110/1         1           Date         Time         Time
Environment: 12600 West I-20 East Odessa, Texas 79765	Project Manager:	Company Address:	City/State/Zip:	Talephone No: <u>(</u>	Sampler Signature: Email:			Lettilloogy Lettilloogy	-N BH-5	-NO BH-	100-	" "	" ar			Special Instructions:	Relinquished by:	Resinguished by ALALA
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# Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

Client:	O COHILO FAN.
ate/ Time:	8/16/06 11:07
_ab ID # :	btlied
itials:	<u> </u>

## Sample Receipt Checklist

×				C	Client Initials
	Temperature of container/ cooler?	Yes	No	230 °C	
#2	Shipping container in good condition?	XES	No		
3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
-4	Custody Seals intact on sample bottles/ container?	Yes	No	AtoI Present	
#5	Chain of Custody present?	<b>Xes</b>	No		
*6	Sample instructions complete of Chain of Custody?	Ces	No		
7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	D written on Sont / Lid	
*9	Container label(s) legible and intact?	Yes	No	Not Applicable	
10	Sample matrix/ properties agree with Chain of Custody?	¥ <del>es</del>	No		
#11	Containers supplied by ELOT?	¥es.	No		
*12	Samples in proper container/ bottle?	Kes	No	See Below	
113	Samples properly preserved?	Xes.	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
\$16	Containers documented on Chain of Custody?	1 Yes	No		
#17	Sufficient sample amount for indicated test(s)?	YES	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Net Applicable	

# Variance Documentation

Contact:		Contacted by:	Date/ Time:
Regarding:			
Corrective Action Taker	):		
4			
<sup>*</sup> Check all that Apply:		See attached e-mail/ fax Client understands and would li Cooling process had begun sho	•