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 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office.

Form C- 144 June 1, 2004

## Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No 🗵

Type of action: Registration of a pit	or below-grade tank U Closure of a pit or below-grade	ae tank 🔼
Operator: Apache Corporation Telephone: (432) 5.	27-3311 e-mail address. Harold S	wain@usa.apachecorp.com
Address: P.O. Box 848 Wink, Texas 79789		
Facility or well name:Hawk "A-5" Well #3 #:30-025-37	380 U/L or Qtr/Qtr O Sec 5 T 21S	R37E
•	.095' Longitude W 103 deg 10.932	
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐		ECEIVED
Pit	Below-grade tank	
Type: Drilling ☑ Production ☐ Disposal ☐	Volumebbl Type of fluid:	JAN 2 3 2008
Workover	Construction material:	
Lined 🛮 Unlined 🗀	Double-walled, with leak detection? Yes	
Liner type: Synthetic ☑ Thickness 12 mil Clay ☐		
Pit Volume7000 bbl		
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points) 95 Feet
mg/ water elevation of ground water.)	100 feet or more	( 0 points)
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No	( 0 points)
water source, or less than 1000 feet from all other water sources.)	Less than 200 feet	(20 points)
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(20 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	(10 points)
	1000 feet of more	( 0 points)
	Ranking Score (Total Points)	10
If this is a pit closure: (1) Attach a diagram of the facility showing the pit'	s relationship to other equipment and tanks. (2) Indica	te disposal location: (check the onsite box if
your are burying in place) onsite 🖾 offsite 🔲 If offsite, name of facility_	(3) Attach a general description of remedial a	ction taken including remediation start date and
end date. (4) Groundwater encountered: No 🗌 Yes 🛛 If yes, show depth	below ground surface 95.6 ft. and attach sample	results.
(5) Attach soil sample results and a diagram of sample locations and excava	tions.	
Additional Comments: All fluids were removed from the pit. The burial	pit was constructed adjacent to the drilling pit and line	d with a 12 ml liner.
The liner and impacted material was placed in the burial pit, completely er	capsulated and capped with a 20 ml liner, and covered	with 3 feet of topsoil to grade.
Samples were collected below the liner, and soil borings were installed at	the NW and SW corners, the west side, the south side,	and west of the burial pit. A drawing is
attached that shows the boring locations. Laboratory results of all soil sam	ples are also attached. A monitoring well was installe	d outside the SW corner of the pit and a
groundwater sample was collected on 4/11/07. The laboratory reported a continuous contin	chloride concentration in groundwater of 75.4 mg/L. S	ample results are attached. A 20 mil
plastic liner was installed at a depth of 12 feet bgs, and the pit was backfill	ed with clean soil on 10/10/07, contoured to surface gr	ade and re-seeded. Additional excavated soil
was hauled to an approved NMOCD disposal facility. Water is being pum	ped from the monitoring well, and the well will contin	ue to be monitored for four quarters.
I hereby certify that the information above is true and complete to the best	of my knowledge and belief. I further certify that th	se ahove described nit or below grade tank
has been/will be constructed or closed according to NMOCD guideline	s 🗵, a general permit 🔲, or an (attached) alternat	ive OCD-approved plan .
Date: _ January 9, 2008		/
Printed Name/Title: Cindy Crain/Geologist - As Agent for Apache Co.	rp. Signature	•
Your certification and NMOCD approval of this application/closure does rotherwise endanger public health or the environment. Nor does it relieve to regulations.	not relieve the operator of liability should the contents	of the pit or tank contaminate ground water or ny other federal, state, or local laws and/or
Approval: Printed Name/Title CHRIS WILLIAMS / DIST. SU	PV Signature Chine Willes	em Date: 1/23/08

# Verbal Approval: Apache Hawk A-5 #3 Drilling Pit Backfill and GW Monitoring Request

Print all

Cindy Crain to Larry,, Harold, Mark

show details 12:33 pm (0 minutes ago) 🖉 🥎 Reply

Dear Larry,

This email serves as written verification of your verbal approval on 9/19/07 to backfill the Apache Corp. Hawk A-5 #3 drilling pit.

The pit will be lined at the current depth of 12 feet below ground surface with a 40 ml plastic liner and covered with clean soil to

surface. The surface will be contoured to grade and re-seeded.

The temporary monitoring well (MW-1) will be periodically pumped in order to draw any nearby impacted groundwater to the well.

As the reported chloride concentrations in the MW-1 groundwater sample were below 100 mg/kg, the pumped water will be used

for either irrigation or for livestock.

Monitoring well (MW-1) will be monitored and sampled quarterly for four (4) quarters, beginning in October, 2007.

If you have any questions or need additional information, please either call me at (505) 441-7244 or email me at Cindy.Crain@gmail.com.

Thank you, Cindy Crain

P.S. Mark - Would you please make sure that Larry gets this message, as his inbox was full earlier in the day today.

Thank you! Cindy

----- Forwarded message -----

From: Cindy Crain < cindy.crain@gmail.com>

Date: Aug 31, 2007 9:01 AM

Subject: Request for Approval: Apache Hawk A-5 #3 Drilling Pit Backfill and GW Monitoring Request

To: "Johnson, Larry, EMNRD" <a href="mailto:sarry.johnson@state.nm.us">larry.johnson@state.nm.us</a> Co: "Swain, Harold" <a href="mailto:Harold.Swain@usa.apachecorp.com">Harold.Swain@usa.apachecorp.com</a>

Dear Larry,

On July 25, 2007, soil borings were installed at the Apache Hawk A-5 #3 drilling pit in order to provide vertical delineation of chloride impacts to soil. The pit is located in Unit Letter O, Section 5, Township 21 South, Range 37 East, Lea County, New Mexico.

Boring BH-3 was advanced at the previously drilled location (at the center of the west side of the pit), with collection of soil samples beginning at approximately 55 to 57 feet bgs. Samples were collected every five feet thereafter until field chloride analysis reported concentrations less than 250 mg/kg at a depth of approximately 90 to 92 feet bgs.

Soil boring BH-5 was installed 38 feet west of boring BH-3, and soil samples were collected at five foot intervals, from a depth of 5 to 50 feet bgs. All samples collected from boring BH-5 reported chloride concentrations below 250 mg/kg. The attached Table (2) provides a summary of the chloride concentrations in soil at borings BH-1 through BH-5. Table 3 provides a summary of chloride concentrations in soil at boring MW-1 (located approximately 15 feet southwest of the southwest corner of the pit). Figure 2 shows the soil boring and monitoring well locations.

A groundwater sample was collected from MW-1 on April 11, 2007, and submitted to Environmental Lab for

chloride analysis. Depth to groundwater was measured at 92.15 feet bgs. The chloride concentration in the groundwater sample was 75.4 mg/L.

The 115' x 105' excavation is currently at a depth of 12' bgs. Apache proposes to install a clay liner from a depth of 12 to 10 feet bgs and compact the clay to at least 95% proctor density. Upon receipt of satisfactory density testing, the remainder of the excavation (from 10 feet to surface) will be backfilled with caliche and graded to surface. Additionally, Apache proposes to monitor the well MW-1 for four quarters, beginning in September, 2007.

Prior to collecting a groundwater sample (in December, 2007; March, 2008; and June, 2008), the depth to groundwater will be measured and recorded. Approximately 5 gallons of water will be purged from the well, and a groundwater sample will be collected for chloride analysis. Upon receipt of laboratory results, the NMOCD will be notified if the chloride concentration is reported above 250 mg/L. If the chloride concentration in groundwater at well MW-1 remains below 250 mg/L for all four quarters, the well will be plugged according to NMOCD specifications. Following the fourth quarter monitoring event (June, 2008), all information will be submitted to your office with the final C144.

Your approval would be greatly appreciated. If approval is granted, Apache intends to proceed with the pit closure and monitoring of well MW-1 as soon as possible.

If you have any questions or need additional information, please either call me at (505) 441-7244 or email me at Cindy.Crain@gmail.com.

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

Cindy Crain
Environmental Manager

Ocotillo Environmental 2125 French Drive Hobbs, NM 88240

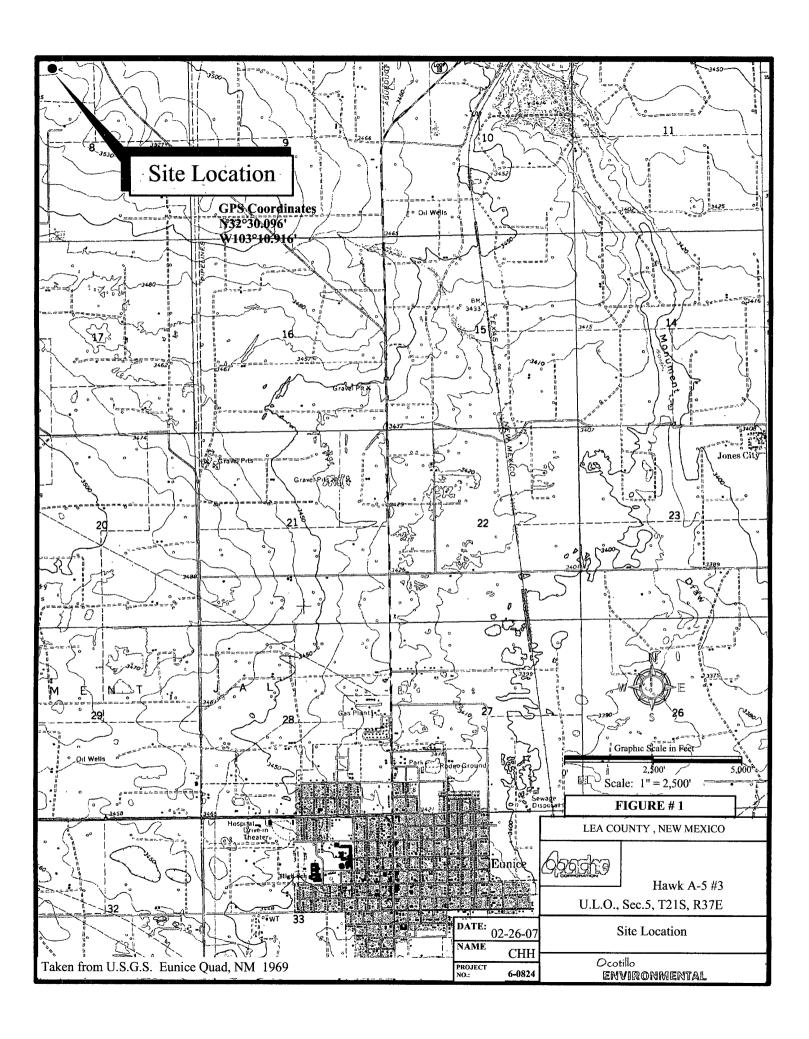
Office (505) 393-6371 Cell (505) 441-7244 Fax (432) 272-0304

2 attachments — Download all attachments

Tables.xls

30K View as HTML Open as a Google spreadsheet Download

revised\_figure\_2\_8-2-07[1].pdf 186K <u>View as HTML Download</u>



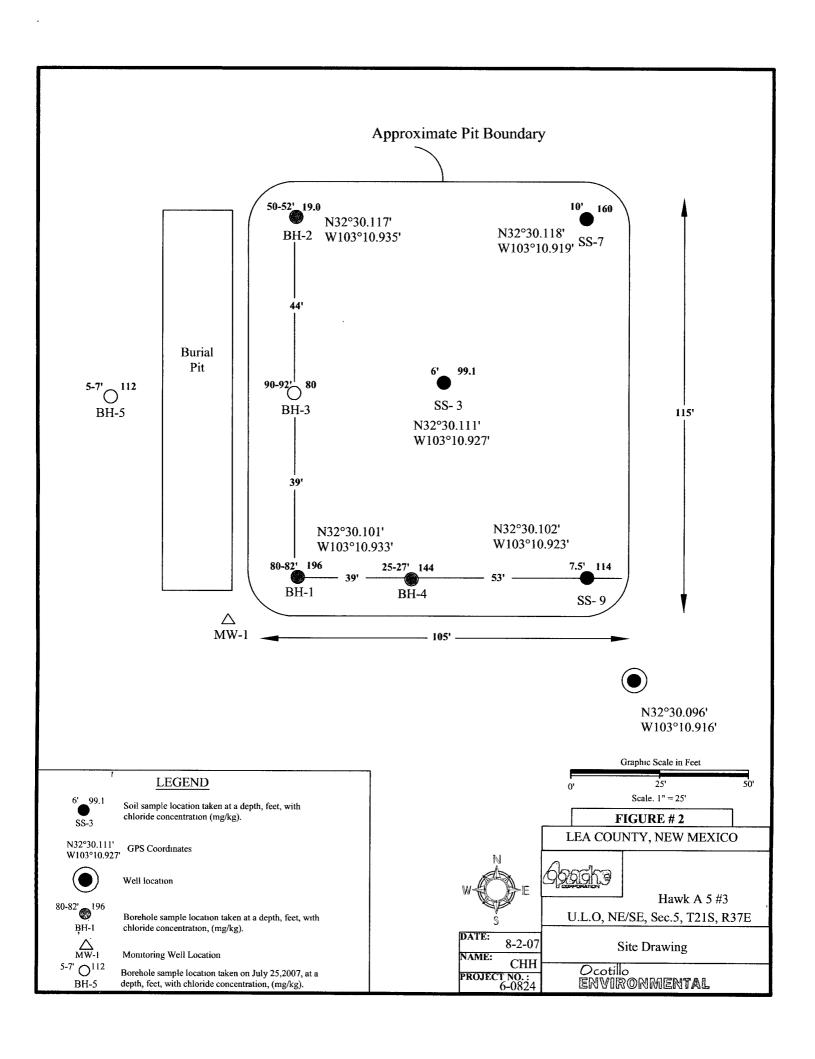


Table 1: Summary of Laboratory Analysis of Soil Samples
Apache Hawk A-5 #3
Unit Letter O, Section 5, Township 21 South, Range 37 East
Lea County, New Mexico

Sample Date	Soil Sample Number	Soil Sample Location	Sample Depth (feet BGS)	Chloride (mg/kg)
WQCC Stan	dard			250
1/30/07	SS-3	Center	6	99.1
1/30/07	SS-5	SW Corner	6	2,570
1/30/07	SS-6	SW Corner	9	9,820
1/30/07	SS-7	NE Corner	10	160
1/30/07	SS-8	NW Corner	10	12,000
1/30/07	SS-9	SE Corner	7.5	114
1/30/07	SS-10	NW Corner	12	10,900
1/31/07	SS-15	NW Corner	26	8,170
1/31/07	SS-17	NW Corner	30	13,000
1/31/07	SS-20	NW Corner	40	12,100

Notes:

1. BGS: Depth in feet below ground surface

2. mg/kg: Milligrams per kılogram

Analysis conducted by Environmental Lab of Texas, Odessa, TX

Table 2: Summary of Laboratory Analysis of Soil from Borings Apache Hawk A-5 #3 Unit Letter O, Section 5, Township 21 South, Range 37 East Lea County, New Mexico

Sample	Soil Sample		Chloride
Date	Number	Depth	(mg/kg)
	L	(feet BGS)	250
WQCC Stand	<del></del>	16.15	250
2/12/07	BH-1	15-17	6,890
		20-22	* 14,200
		25-27	10,600
		30-32	, 8,880
		35-37	9,140
		40-42	8,160
		45-47	4,880
		50-52	2,270
		55-57	1,700
		60-62	1,410
		65-67	545
		70-72	402
		75-77	357
2/42/05		80-82	196
2/12/07	BH-2	45-47	721 .
		50-52	19
		55-57	28 3
		60-62	22.8
		65-67	15.2
6/12/07	BH-3	20-22	6,170
		25-27	10,000
		30-32	11,500
		35-37	17,400
		40-42	14,600
		45-47	12,600
		50-52	8,160
7/25/07		55-57	5,718
		60-62	1,536
		65-67	1,200
		70-72	1,168
		75-77	864
		80-82	768
		85-87	560
(11010=		90-92	80
6/12/07	BH-4	20-22	256
		25-27	144
	ļ	30-32	256
	-	35-37	256
		40-42	192
		45-47	160
7/25/07	DIL	50-52	128
7/25/07	BH-5	5-7	112
		10-12	144
		15-17	112
		20-22	128
		25-27	144
	1	30-32	96
	ļ	35-37	96
	ļ	40-42	96
		45-47	96
		50-52	64

1 BGS:

Depth in feet below ground surface

2 mg/kg.

Mılligrams per kılogram

Table 3: Summary of Laboratory Analysis of Soil from Monitoring Well Apache Hawk A-5 #3 Unit Letter O, Section 5, Township 21 South, Range 37 East Lea County, New Mexico

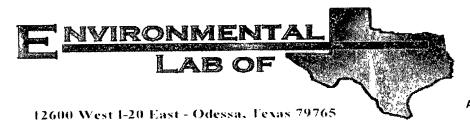
Sample	Soil Sample	Sample	Chloride
Date	Number	Depth	(mg/kg)
		(feet BGS)	
WQCC Stand	ard		250
4/3/07	MW-1	0-2	213
		5-7	160
		10-12	85.1
		15-17	85.1
		20-22	85.1
		25-27	117
		30-32	95.7
		35-37	117
		40-42	106
		45-47	234
		50-52	42.5
		55-57	42.5
		60-62	31.9
		65-67	21.3
		70-72	21.3
		75-77	<20
		80-82	31.9
		85-87	31.9
		90-92	42.5
		95-97	21.3
	, l	100-102	31.9

Analysis conducted by Environmental Lab of Texas, Odessa, TX

Notes:

1. BGS: Depth in feet below ground surface

2. mg/kg: Milligrams per kılogram



A Xenco Laboratories Company

# Analytical Report

### Prepared for:

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

Project: Apache- Hawk A-5 #3
Project Number: None Given
Location: Eunice, NM

Lab Order Number: 7B01012

Report Date: 02/06/07

Ocotrllo EnvironmentalProjectApache- Hawk A-5 #3Fax (432) 367-67472125 French DrProject NumberNone GivenHobbs NM, 88201Project ManagerCindy Crain

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	. Date Received
SS-3	7B01012-01	Soil	01/30/07 07 40	02-01-2007 14 25
SS-5	7B01012-02	Soil	01/30/07 07 45	02-01-2007 14:25
SS-6	7B01012-03	Soil	01/30/07 08 35	02-01-2007 14:25
SS-7	7B01012-04	Soil	01/30/07 08.55	02-01-2007 14 25
SS-8	7B01012-05	Soil	. 01/30/07 09.00	02-01-2007 14 25
SS-9	7B01012-06	Soil	01/30/07 09:30	02-01-2007 14:25
SS-10	7B01012-07	Soil	01/30/07 10-20	02-01-2007 14.25

Ocotillo EnvironmentalProjectApache- Hawk A-5 #3Fax (432) 367-67472125 French DrProject NumberNone GivenHobbs NM, 88201Project ManagerCindy Crain

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

Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Ditation	Dates	Trepared	7 thury 200	Methou	ivoics
99.1	5 00	mg/kg	10	EB70303	02/03/07	02/03/07	EPA 300 0	
2570	40 0	mg/kg	80	EB70303	02/03/07	02/03/07	EPA 300 0	
•								
9820	100	mg/kg	200	EB70303	02/03/07	02/03/07	EPA 300 0	
160	5 00	mg/kg	10	EB70303	02/03/07	02/03/07	EPA 300.0	
	,							
12000	200	mg/kg	400	EB70303	02/03/07	02/03/07	EPA 300 0	
114	5 00	mg/kg	10	EB70303	02/03/07	02/03/07	EPA 300 0	
10900	200	mg/kg	400	EB70303	02/03/07	02/03/07	EPA 300 0	
	99.1 2570  9820 160 12000	Result         Limit           99.1         5 00           2570         40 0           .         100           160         5 00           12000         200           114         5 00	Result         Limit         Units           99.1         5 00         mg/kg           2570         40 0         mg/kg           9820         100         mg/kg           160         5 00         mg/kg           12000         200         mg/kg           114         5 00         mg/kg	Result         Limit         Units         Dilution           99.1         5 00         mg/kg         10           2570         40 0         mg/kg         80           9820         100         mg/kg         200           160         5 00         mg/kg         10           12000         200         mg/kg         400           114         5 00         mg/kg         10	Result         Limit         Units         Dilution         Batch           99.1         5 00         mg/kg         10         EB70303           2570         40 0         mg/kg         80         EB70303           9820         100         mg/kg         200         EB70303           160         5 00         mg/kg         10         EB70303           12000         200         mg/kg         400         EB70303           114         5 00         mg/kg         10         EB70303	Result         Limit         Units         Dilution         Batch         Prepared           99.1         5 00         mg/kg         10         EB70303         02/03/07           2570         40 0         mg/kg         80         EB70303         02/03/07           9820         100         mg/kg         200         EB70303         02/03/07           160         5 00         mg/kg         10         EB70303         02/03/07           12000         200         mg/kg         400         EB70303         02/03/07           114         5 00         mg/kg         10         EB70303         02/03/07	Result         Limit         Units         Dilution         Batch         Prepared         Analyzed           99.1         5 00         mg/kg         10         EB70303         02/03/07         02/03/07           2570         40 0         mg/kg         80         EB70303         02/03/07         02/03/07           9820         100         mg/kg         200         EB70303         02/03/07         02/03/07           160         5 00         mg/kg         10         EB70303         02/03/07         02/03/07           12000         200         mg/kg         400         EB70303         02/03/07         02/03/07           114         5 00         mg/kg         10         EB70303         02/03/07         02/03/07	Result         Limit         Units         Dilution         Batch         Prepared         Analyzed         Method           99.1         5 00         mg/kg         10         EB70303         02/03/07         02/03/07         EPA 300 0           2570         40 0         mg/kg         80         EB70303         02/03/07         02/03/07         EPA 300 0           9820         100         mg/kg         200         EB70303         02/03/07         02/03/07         EPA 300 0           160         5 00         mg/kg         10         EB70303         02/03/07         02/03/07         EPA 300 0           12000         200         mg/kg         400         EB70303         02/03/07         02/03/07         EPA 300 0           114         5 00         mg/kg         10         EB70303         02/03/07         02/03/07         EPA 300 0

Ocotillo Environmental 2125 French Dr Hobbs NM, 88201 Project Apache- Hawk A-5 #3

Project Number None Given
Project Manager Cindy Crain

Fax (432) 367-6747

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB70303 - Water Extraction		,								
Blank (EB70303-BLK1)				Prepared &	k Analyzed	02/03/07				
Chloride	ND	0 500	mg/kg							
LCS (EB70303-BS1)				Prepared &	k Analyzed	02/03/07				
Chloride	11 1	0 500	mg/kg	10 0		111	80-120			•••
Calibration Check (EB70303-CCV1)				Prepared &	k Analyzed	02/03/07				
Chloride	11 0		mg/L	10 0		110	80-120			
Duplicate (EB70303-DUP1)	Sour	ce: 7B01012-	01	Prepared &	z Analyzed.	02/03/07				
Chloride	99.8	5 00	mg/kg		99 1			0 704	20	.,,
Matrix Spike (EB70303-MS1)	Sour	ce: 7B01012-	01	Prepared &	k Analyzed	02/03/07				
Chloride	217	5.00	mg/kg	100	99 1	118	80-120			

Ocotillo Environmental 2125 French Dr. Hobbs NM, 88201

Project: Apache- Hawk A-5 #3

Project Number: None Given Project Manager: Cindy Crain

#### Notes and Definitions

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

Relative Percent Difference RPD

LCS Laboratory Control Spike

Duplicate

MS Matrix Spike Dup

Report Approved By:

Brent Barron, Laboratory Director/Gorp. Technical Director

Celey D. Keene, Org. Tech Director

Raland K. Tuttle, Laboratory Consultant

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.

Fax: (432) 367-6747

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager. Cindy C	rain															p	role	ct Na	me:	1	131	16	سا ره	. H	r41.11	1	15	#	3
	Company Name Ocotillo	Environmental, I	LLC			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										-	,	,-	rata		7	w	ه ب		110	والمرادع		<i>T</i>		
	Company Address: 2125 Fr	ench Drive, P.O.	Box 18	16				•								_		,	ruja	<del></del> .	1					1 /	11	<u> </u>		
		NM 88241							,									Pro				W,	<u> </u>	<u>C</u> /		<u>V</u>	<u>V/</u>			<del></del>
	Telephone No: (505) 44	1-7244				F31							<del></del>			-				O #:										
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Variance/ Corrective Action Report- Sample Log-In

Client: OCOTIO ENU		_		
Date/ Time: 2-1-07 2:25				
A 14				
Initials:				
Sample Receipt	t Checklist			
#1 Temperature of container/ cooler?		<del>,</del>		nt Initials
#2 Shipping container in good condition?	Yes	No	12.5 °C	
3000 00110111:	<u>Yes</u>	No		
	Yes	No	Not Present	
- Visit of the policy container	Yes	No	Not Present	
	Yes'	No		
- Chair of Obstody!	Yes	No		
Chain of Custody signed when relinquished/ received?	Yes	No		
8 Chain of Custody agrees with sample label(s)?	YES	No	ID written on Cont./ Lid	
9 Container label(s) legible and intact?	Xes	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?	Yeş	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		
16 Containers documented on Chain of Custody?	//es	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 Subcontract of sample(s)?	Yes	No	Not Applicable	
20 VOC samples have zero headspace?	Yes	No	Not Applicable	
Variance Docur			(Wot/Applicables	
Contact: Contacted by:  Regarding:		•	Date/ Time:	
Corrective Action Taken:				
Check all that Apply: See attached e-mail/ fax Client understands and would	Lliko to prop			



# Analytical Report

### Prepared for:

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

Project: Apache- Hawk A-5 #3
Project Number: 6-0824
Location: UL-o, Sec. 5, 21S, 37E

Lab Order Number: 7B13003

Report Date: 02/15/07

Ocotillo Environmental 2125 French Dr

Hobbs NM, 88201

Project Apache- Hawk A-5 #3

Project Number 6-0824
Project Manager Cindy Crain

Fax (432) 367-6747

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 15-17	7B13003-01	Soil	02/12/07 10 44	02-13-2007 10 42
BH-1 20-22	7B13003-02	Soil	02/12/07 10 50	02-13-2007 10 42
BH-1 25-27	7B13003-03	Soil	02/12/07 10 56	02-13-2007 10.42
BH-1 30-32	7B13003-04	Soil	02/12/07 11 02	02-13-2007 10 42
BH-1 35-37	7B13003-05	Soil	02/12/07 11 04	02-13-2007 10 42
BH-1 40-42	7B13003-06	Soil	02/12/07 11 07	02-13-2007 10 42
BH-1 45-47	7B13003-07	Soil	02/12/07 11 14	02-13-2007 10 42
BH-1 50-52	7B13003-08	Soil	02/12/07 11 19	02-13-2007 10:42
BH-1 55-57	7B13003-09	Soil	02/12/07 11 24	02-13-2007 10 42
BH-1 60-62	7B13003-10	Soil	02/12/07 12 25	02-13-2007 10 42
ВН-1 65-67	7B13003-11	Soil	02/12/07 12 46	02-13-2007 10 42
BH-1 70-72	7B13003-12	Soil	02/12/07 12 52	02-13-2007 10.42
BH-1 75-77	7B13003-13	Soil	02/12/07 12 56	02-13-2007 10 42
BH-1 80-82	7B13003-14	Soil	02/12/07 13:00	02-13-2007 10 42
SS-15 26-26	7B13003-15	Soil	01/31/07 08 50	02-13-2007 10.42
SS-17 30-30	7B13003-16	Soil	01/31/07 13 00	02-13-2007 10 42
SS-20 40-40	7B13003-17	Soil	01/31/07 16 00	02-13-2007 10 42
BH-2 45-47	7B13003-18	Soil	02/12/07 13 44	02-13-2007 10 42
BH-2 50-52	7B13003-19	Soil	02/12/07 13 52	02-13-2007 10 42
ВН-2 55-57	7B13003-20	Soil	02/12/07 14 02	02-13-2007 10 42
ВН-2 60-62	7B13003-21	Soil	02/12/07 14 10	02-13-2007 10 42
BH-2 65-67	7B13003-22	Soil	02/12/07 14 20	02-13-2007 10 42

Ocotillo Environmental 2125 French Dr. Hobbs NM, 88201 Project Apache- Hawk A-5 #3

Project Number 6-0824
Project Manager Cindy Crain

Fax (432) 367-6747

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

		Reporting	W						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 15-17 (7B13003-01) Soil	Older to the Communication of the State of Communication of the Communic		Of the State of th						
Chloride	6890	100	mg/kg	200	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-1 20-22 (7B13003-02) Soil									
Chloride	14200	200	mg/kg	400	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-1 25-27 (7B13003-03) Soil									
Chloride	10600	200	mg/kg	400	EB71401	02/14/07	02/14/07	EPA 300.0	
BH-1 30-32 (7B13003-04) Soil									
Chloride	8880	100	mg/kg	200	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-1 35-37 (7B13003-05) Soil									
Chloride	9140	100	mg/kg	200	EB71401	02/14/07	02/14/07	EPA 300 0	300000 100000 37 pg 17 2 2 3 4 5 0 1 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
BH-1 40-42 (7B13003-06) Soil									
Chloride	8160	100	mg/kg	200	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-1 45-47 (7B13003-07) Soil						,			
Chloride	4880	50 0	mg/kg	100	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-1 50-52 (7B13003-08) Soil			4						
Chloride	2270	25 0	mg/kg	50	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-1 55-57 (7B13003-09) Seil									
Chloride	1700	20 0	mg/kg	40	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-1 60-62 (7B13003-10) Soil			ot-sura						
Chloride	1410	20 0	mg/kg	40	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-1 65-67 (7B13003-11) Soil									
Chloride	545	10 0	mg/kg	20	EB71401	02/14/07	02/14/07	EPA 300 0	

Ocotillo Environmental 2125 French Dr Hobbs NM, 88201 Project Apache- Hawk A-5 #3

Project Number 6-0824
Project Manager Cindy Crain

Fax (432) 367-6747

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

A SECULIAR		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 70-72 (7B13003-12) Soil			F-113-40-7-1-1-1-1-1-1						
Chloride	402	110	mg/kg	220	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-1 75-77 (7B13003-13) Soil			-10-0-8×0/U-3-50-0-0-0-4						
Chloride	357	10 0	mg/kg	20	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-1 80-82 (7B13003-14) Soil				220					
Chloride	196	5 00	mg/kg	10	EB71401	02/14/07	02/14/07	EPA 300 0	
SS-15 26-26 (7B13003-15) Soil									
Chloride	8170	100	mg/kg	200	EB71401	02/14/07	02/14/07	EPA 300 0	
SS-17 30-30 (7B13003-16) Soil									
Chloride	13000	200	mg/kg	400	EB71401	02/14/07	02/14/07	EPA 300 0	
SS-20 40-40 (7B13003-17) Soil									
Chloride	12100	200	mg/kg	400	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-2 45-47 (7B13003-18) Soil	Advanced and the Books at the	-	· · · · · · · · · · · · · · · · · · ·	***************************************	yang et	***************************************			
Chloride	721	10 0	mg/kg	20	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-2 50-52 (7B13003-19) Soil									
Chloride	19.0	5.00	mg/kg	10	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-2 55-57 (7B13003-20) Soil									
Chloride	28.3	5 00	mg/kg	10	EB71401	02/14/07	02/14/07	EPA 300 0	
BH-2 60-62 (7B13003-21) Soil									
Chloride	22.8	5.00	mg/kg	10	EB71402	02/14/07	02/14/07	EPA 300 0	
BH-2 65-67 (7B13003-22) Soil									
Chloride	15.2	5.00	mg/kg	10	EB71402	02/14/07	02/14/07	EPA 300 0	

Ocotillo Environmental

2125 French Dr

Hobbs NM, 88201

Project Apache- Hawk A-5 #3

Project Number: 6-0824 Project Manager Cindy Crain Fax (432) 367-6747

### 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 EB71401 - General Preparation (W	etChem)	Mary Mary and Mary and American	Opposate on Appoint Million 24			W.L. T. C. T. C. T. C. L. C. L. C. L. C. L. L. C. L				
Blank (EB71401-BLK1)				Prepared &	Analyzed	02/14/07				
Chlonde	ND	0 500	mg/kg							
LCS (EB71401-BS1)				Prepared &	Analyzed.	02/14/07				
Chloride	10 5	0 500	mg/kg	10 0		105	80-120	, ,		
Calibration Check (EB71401-CCV1)				Prepared &	Analyzed	02/14/07				
Chloride	9.07		mg/kg	10 0		90 7	80-120			
Duplicate (EB71401-DUP1)	Source	e: 7B13003-	01	Prepared &	Analyzed	02/14/07				
Chloride	6930	100	mg/kg		6890			0 579	20	
Duplicate (EB71401-DUP2)	Sourc	e: 7B13003-	11	Prepared &	Analyzed	02/14/07				
Chlonde	546	10 0	mg/kg		545			0 183	20	
Matrix Spike (EB71401-MS1)	Sourc	e: 7B13003-	01	Prepared &	Analyzed	02/14/07				
Chlonde	9080	100	mg/kg	2000	6890	110	80-120			
Matrix Spike (EB71401-MS2)	Sourc	e: 7B13003-	11	Prepared &	Analyzed	02/14/07				
Chloride	746	10 0	mg/kg	200	545	100	80-120			
Batch EB71402 - General Preparation (W	etChem)									
Blank (EB71402-BLK1)			J/// 3	Prepared &	Analyzed	02/14/07				
Chloride	ND	0 500	mg/kg							
LCS (EB71402-BS1)				Prepared &	Analyzed	02/14/07				
Chloride	10 5	0 500	mg/kg	10 0		105	80-120	· : · . · · . · · ·		

Ocotillo EnvironmentalProjectApache- Hawk A-5 #3Fax (432) 367-67472125 French DrProject Number6-0824Hobbs NM, 88201Project ManagerCindy Crain

#### 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 EB71402 - General Preparation (V	VetChem)									
Calibration Check (EB71402-CCV1)				Prepared &	Analyzed	02/14/07				
Chloride	9 40		mg/kg	10 0		94 0	80-120			
Duplicate (EB71402-DUP1)	Sour	ce: 7B12001-	01	Prepared &	z Analyzed	02/14/07				
Chloride	87 5	5 00	mg/kg		88 8			1 47	20	
Duplicate (EB71402-DUP2)	Sour	ce: 7B13001-	04	Prepared &	z Analyzed	02/14/07				
Chloride	632	10 0	mg/kg		621			1 76	20	
Matrix Spike (EB71402-MS1)	Sour	ce: 7B12001-	-01	Prepared &	z Analyzed	02/14/07				
Chloride	268	5.00	mg/kg	100	88 8	179	80-120			QM-0
Matrix Spike (EB71402-MS2)	Sour	ce: 7B13001-	04	Prepared &	. Analyzed	02/14/07				
Chloride	830	10 0	mg/kg	200	621	104	80-120			

Ocotillo Environmental 2125 French Dr

Hobbs NM, 88201

Project Apache- Hawk A-5 #3

Fax (432) 367-6747

Project Number 6-0824
Project Manager Cindy Crain

#### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD recovery $% \left( 1\right) =\left( 1\right) \left( 1\right) \left$	The batch was accepted based on acceptable LCS
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	
Dun	Dunlicate	

			c	1 1		
	- *	- %			D .	0/15/0007
Report Approved By:					Date:	2/15/2007

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant 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.

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East

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

Odessa, Texas 79765

	Project Manager:	Cindy Crain														1	Proje	ct N	ame	1	100	che	9 1	4/a.	wk	A	<u>- 5</u>	#	3_		
	Company Name	Ocotilio Environmental, LI	-C																						24						
	Company Address:	PO Box 1816																							·. 5,		21:	5,	37	E	
	City/State/Zip:	Hobbs, NM 88241																F	°O#	-	.,										
	Telephone No:	(505) 441-7244				Fax No:		(43	2) 2	72-0	304					Rep	ort F	orm	at:	H	Sta	ndar	rd		□ тв	₹RF	>		NPD	ES	
	Sampler Signature:	Circly Cr	ain	·· <b>·</b> · · · · · · · · · · · · · · · · ·		e-mail:		cir	<u>idy</u>	',Cra	ain(	Q)gı	mai	il.coi	<u>n</u>		6			i mereka Z		Λ	alyze	a Ea	<del>:</del>	Brown States					
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LAB# (lab use only)			Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers		HNO <sub>3</sub>	-	H <sub>2</sub> SO,	NaOH No C O	25203 De	Other (Specify)	DW≂Drinking Water GW = Groundwater	n-Fotsbie	TX 4005	Cations (Ca, Mg, Na, K)	ons (CI)504,	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Velatites	Semivolatiles	BTEX 8021B/5030 RCI	NO BE	7.H.W			RUSH 1.A.T (Pre-Scheldur)	Standard TAT
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#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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12600 West I-20 East Odessa, Texas 79766 Phone: 432-563-1800 Fax: 432-563-1713

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Company Address   PQ Box 1816		Company Name	Ocotillo Environmental	, LLC													_														4
City State Zip:   Hobbs   M   68241		Company Address:	PO Box 1816								,						-	p										21.	5, <u>i</u>	37£	-
Sampler Signature:		City/State/Zip:	Hobbs, NM 88241														_												•		
Analyze For   Fire   Preservation & For Containers   Major   Fire   Preservation & For Containers   Major   Fire   Fire		Telephone No:	(505) 441-7244				Fax No:		(43	32) 2	72-0	304					Re	port	For	mat:	[	] s	tand	ard		Т	RRF	<b>ɔ</b>	□и	PDES	ŝ
Compared   Compared		Sampler Signature:	_ Cirdin	Sac	a		e-mail:		<u>ci</u>	<u>nd\</u>	/.cr	ain	@0	ma	ail,co	om			·					mocyal Table	rees a	C:: (villaribellulu			<del>ar or placed to the origin</del>	1100pm-01	4
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

ı	Project Manager:	Cindy Crain									,							Proj	ect l	Nam	e:	Å,	<u> 200</u>	he	_H	an	<u>ık</u>	<u> 4-</u>	5	# <u> </u>	3	
	Company Name	Ocotillo Environ	mental IIC													_																
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1	Company Address:	PO Box 1816			,																						,					
	City/State/Zip:	Hobbs, NM 88	241						<u> </u>									port	Ear			<u></u>				Пт				NPDE	S	
	Tetephone No:	(505) 441-7244		<del>) —</del>			Fax No:	_			2-030						Re	port	ron	ngt.	١	V	ter ier	110								
	Sampler Signature	: _ ( w	4063	air			e-mail:		cin	dγ.	crai	n(a)	gm	ail.c	on	<u>1</u>		-		H-V		100,000	A	\naly	ze Fo	) [T	Market Care			1	-	
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				dite.		-	73		ners Contamination								r SL≓Studge s S≘Soil/Sobrt	Specify Other	8015M B	5 TX 1606	g, Na, K)	4, Alkafinty)	eC Sa Cd Ce Ph H	20 20 20		030 or BTEX 8				Jahan Man	Pro-Serimone A	47
LAB# (lab use only)				Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Fillered	Total # of Containers	ece	HNO	HCI H-SO.	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Danking Water SL=Studge C10 - Cround-rater S⊇SollSol	typ=Non-Potable Specify Other	TPH: 4181	7P1€ 1X 1605	Cations (Ca, Mg, Na, K)	Anions (C) SO4, Alkelinty)	SAR / ESP / CEC	Metals As Ay I	Semivolatiles	BTEX 90218/5030 or BTEX 8260	RCI	N.O.R M		Tarren Tarr	HUSH IA I (Pra-Schouber, 24) 44,	Standard 14
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#### Jeanne McMurrey

From:

"Cassie Hobbs" <cassie.hobbs@gmail.com>

To: Sent:

"Jeanne McMurrey" <jeanne@elabtexas.com> Thursday, February 15, 2007 8:52 AM Re: Report #7B13003 Apache-Hawk A-5 #3 Subject:

Thank you Jeanne,

Hope you had a Happy Valentine's Day too!

Could you please change BH-2: 80-82' to BH-1: 80-82' That sample was mislabeled.

Thank you!

Cassie

On 2/14/07, Jeanne McMurrey < jeanne@elabtexas.com > wrote:

Happy Valentine's Day!

Jeanne McMurrey Environmental Lab of Texas I, Ltd. 12600 West I-20 East Odessa, Texas 79765 432-563-1800

ė.

This message has been scanned for viruses and dangerous content by Basin Broadband, Inc.,, utilizing DefenderMX technology, and is believed to be clean.



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

ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL ATTN: CINDY CRAIN 2125 FRENCH DR. HOBBS, NM 88240 FAX TO: (432) 272-0304

Receiving Date: 06/12/07 Reporting Date: 06/12/07 Project Owner: APACHE

Project Name: HAWK A-5 #3
Project Location: EUNICE, NM

Analysis Date: 06/12/07 Sampling Date: 06/12/07 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: AB

LAB NO.	SAMPLE ID	CI (mg/Kg)
H12736-1	BH-3 (20-22')	6170
H12736-2	BH-3 (25-27')	10000
H12736-3	BH-3 (30-32')	11500
H12736-4	BH-3 (35-37')	17400
H12736-5	BH-3 (40-42')	14600
H12736-6	BH-3 (45-47')	12600
H12736-7	BH-3 (50-52')	8160
H12736-8	BH-4 (20-22')	256
H12736-9	BH-4 (25-27')	144
H12736-10	BH-4 (30-32')	256
Quality Cont	rol	500
True Value C	QC	500
% Recovery		100
Relative Per	cent Difference	1.0

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

06-13-07

Date



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

ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL ATTN: CINDY CRAIN 2125 FRENCH DR. HOBBS, NM 88240 FAX TO: (432) 272-0304

Receiving Date: 06/12/07 Reporting Date: 06/12/07 Project Owner: APACHE Project Name: HAWK A-5 #3 Project Location: EUNICE, NM

Analysis Date: 06/12/07 Sampling Date: 06/12/07 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: AB

CI

Lab No.	SAMPLE ID	(mg/Kg)
H12736-11	BH-4 (35-37')	256
H12736-12	BH-4 (40-42')	192
H12736-13	BH-4 (45-47')	160
H12736-14	BH-4 (50-52')	128
Quality Cont	rol	500
True Value (	C	500
% Recovery		100
Relative Per	cent Difference	1.0

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

H12736A 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	Ocotilla Environment	n]								·	3//	LL TO							ANA	LYS	IS	RE	QUE	ST		<del></del>	
Project Manager								P.C	). #:																		
Address:	2125 French Dr.							Co	mpa	เทษ																	
City: Hok	95 State: NM 95) 식41 - 7244 Fax #: (43	Zip	:	8	824	10		Att	n:					l		ļ	1						ĺ		ļ		
Phone #: (50	05) 441-7244 Fax#: (43	32	) _:	27	2-0	30	04	Ad	dres	s:													ĺ				
Project #:	Project Owner	: ]	AL	ac	che			Cit	y:								1										
Project Name:	Hawk A-5 #3		17					Sta	ite:			Zip:							}	·			1				
Project Location	: Curice NM							Ph	one	#:					ļ												
Sampler Name:	1: Cupice NM Cindy Cain							Fa	x #:					Ŋ													
FOR LAB USE ONLY			Π		MA	TRI	X		PRE	SE	RV.	SAMPLI	NG	3													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	COLE	SLUDGE	отнек	ACID/BASE.	ICE / COOL	отнек	DATÉ	TIME	Chlorides													
H12736-1	BH-3 (20-22)		1		L					~		4/12/07	0905	~												ļ	
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analyses All claims includi	ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including	deeme	ed war	ved ur	nless mad	e in wi	nting and	i rece	rved by	y Caro	inal v	vithin 30 days afte	r completion of t	he applica	able												
affiliates or successors ansi	no out of or related to the performance of services hereunder by C	ardina	ıl, rega	ardles	s of wheth	er suc	ch claim	ıs bas	ed upo	on any	y of th	e above stated re	esons or otherwi	se		Yes		No	Add	l Pho	no #	i					
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



### 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	Covironment	2/								BI	LL	TO							ANA	LYSI	S RI	EQUI	EST			
Project Managei	: Cindy C	Covironment						P	.O.	#:																	
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City: H	bbs	State: NM	Zip	: ;	88.	24	0	Α	ttn:																		
Phone #: 15	05) 441-7.	24/Fax#: /4.	3 <i>2</i>	چ (	27	2-0.	30	4/ A	ddr	ess	:							i				1					
Project #:		State: /// フィイトFax #: / イノ Project Owner	:	A4	DAC	he		c	ity:															}			
Project Name:	HOWX	A-5#3							tate	): 		Zip	):										ĺ				
Project Location	1: Curie	e NM Cain						P	hor	1e #:	:			·	N								١,				
Sampler Name:	Cindy	Cain							ax #								ļ				Į.			ŀ			
FOR LAB USE ONLY	,		,			MA	RIX	1	PI	RES	ERV	4	SAMPLI	VG	0						1		1				
Lab I.D.	Sam	ple I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL	OIL	SLUDGE	OTHER ACID/RASE	ICE / COOL	ОТНЕК		DATE	TIME	Chbride												
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analyses All claims include service. In no event shall C	ng those for negligence and ardinal be liable for incidents	uity and client's exclusive remedy for all I any other cause whatsoever shall be of all or consequental damages, including erformance of services hereunder by C	Jeeme withou	d waiv it limita	ed unle: ation, bu	ss made i isiness in	n wntir terrupti	ig and re ons, los	eceived s of us	d by Ca e, or lo	ardinal oss of p	l within profits i	30 days after incurred by c	completion of ti lient, its subsidia	he applica πes,	able	_1	k.		<u> </u>	<u> </u>				<u> </u>	1	<u> </u>
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



PHONE (505) 393-2926 . 101 E MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL ATTN: CINDY CRAIN 2125 FRENCH DR HOBBS, NM 88240 FAX TO: (432) 272-0304

Receiving Date 06/12/07 Reporting Date: 06/12/07 Project Owner: APACHE

Project Name: HAWK A-5 #3 Project Location: EUNICE, NM Analysis Date: 06/12/07 Sampling Date 06/12/07 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: AB

LAB NO.	SAMPLE ID	C厂 (mg/Kg)
H12736-1	BH-3 (20-22')	6170
H12736-2	BH-3 (25-27')	10000
H12736-3	BH-3 (30-32')	11500
H12736-4	BH-3 (35-37')	17400
H12736-5	BH-3 (40-42')	14600
H12736-6	BH-3 (45-47')	12600
H12736-7	BH-3 (50-52')	8160
H12736-8	BH-4 (20-22')	256
H12736-9	BH-4 (25-27')	144
H12736-10	BH-4 (30-32')	256
Quality Cont	rol	500
True Value (	C	500
% Recovery		100
Relative Per	cent Difference	10

METHOD: Standard Methods 4500-CFB

Note: Analyses performed on 1.4 w;v aqueous extracts.

U**nje**mist

06-13-07

H12736 OCOTILLO

PLEASE NOTE. Liability and Damoges. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or forr, shull be limited to the amount paid by Chent for an explaint, including those for neglicance and any other cause whatsoever shall be desired unless made in writing and received by Cardinal within thiny (30) days after completion of the Auphocubia service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subclothates, affiliates or euccessors enlating out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (505) 393-2326 · 101 E MARLAND · HOBBS, NM 68240

ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL ATTN: CINDY CRAIN 2125 FRENCH DR. HOBBS, NM 88240 FAX TO: (432) 272-0304

Receiving Date: 06/12/07 Reporting Date: 06/12/07 Project Owner: APACHE Project Name: HAWK A-5 #3 Project Location: EUNICE, NM Analysis Date: 06/12/07 Sampling Date: 06/12/07 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: AB

LAB NO. SAMPLE ID CIT (mg/Kg)

H12736-11 BH-4 (35-37')	256
H12736-12 BH-4 (40-42')	192
H12736-13 BH-4 (45-47')	160
H12736-14 BH-4 (50-52')	128
	<del></del>
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Quality Control	500
True Value QC	500
% Recovery	100
Relative Percent Difference	1.0

METHOD. Standard Methods 4500-CIB

Note: Analyses performed on 1.4 w/v aqueous extracts.

7700

Date

H12736A OCOTILLO

PLEASE NOTE. Liability and Damages. Cardinal's hability and cliant's exclusive remedy for any claim arising, whether based in contract or lord, shall be limited to the emount paid by client for analysis. All claims, including those for negligence and any other cause whatspever shall be deemed waived unless made in whiting and received by Cardinal within thirty (30) days efter completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsiditives alfiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abiliene, TX 79603 (505) 393-2326 FAX (805) 393-2476 (225) 672-7094 FAX (225) 672-7094

Company Name	Opprillo Coniconnes			-0) U	13-10	NO F	Ŷ	132		-	L TO						ΔΝΔ	IVS	ÌS E	REQU	FST				
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Project Name:	Project Owne Hawk A-5 #3	<u> </u>	17	acr	25		City:						l					Í	1			1	1		
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Ocotillo Civironmen			25/ 6/	3-70	101		154	-	-	-7020 LL <b>TO</b>		<del>Stron</del>				A IA A	i Ve	10 F	2501				
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

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

Receiving Date: 07/26/07 Reporting Date: 07/30/07 Project Number: 6-0824 Project Name: HAWK A-5 #3 Project Location: EUNICE, NM Analysis Date: 07/30/07 Sampling Date: 07/25/07 Sample Type: SOIL Sample Condition: INTACT Sample Received By: KS

Analyzed By: KS

		CI				
LAB NO.	SAMPLE ID	(mg/Kg)				
H12992-1	BH - 3 (55-57')	5718				
H12992-2	BH - 3 (60-62')	1536				
H12992-3	BH - 3 (65-67')	1200				
H12992-4	BH - 3 (70-72')	1168				
H12992-5	BH - 3 (75-77')	864				
H12992-6	BH - 3 (80-82')	768				
H12992-7	BH - 3 (85-87')	560				
H12992-8	BH - 3 (90-92')	80				
H12992-9	BH - 5 (5-7')	112				
H12992-10	BH - 5 (10-12')	144				
Quality Cont	Quality Control					
True Value (	True Value QC					
% Recovery	% Recovery					
Relative Per	Relative Percent Difference					

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Hope Is M d'unt

37/30/07

Date

#### H12992 OCO.



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

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

Receiving Date: 07/26/07 Reporting Date: 07/30/07 Project Number: 6-0824

Project Name: HAWK A-5 #3 Project Location: EUNICE, NM Analysis Date: 07/30/07 Sampling Date: 07/25/07 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: KS

Analyzed By: KS

	0.1101.5.15	CI <sup>-</sup>
LAB NO.	SAMPLE ID	(mg/Kg)
	<del> </del>	

H12992-11	BH - 5 (15-17')	112				
H12992-12	BH - 5 (20-22')	128				
H12992-13	BH - 5 (25-27')	144				
H12992-14	BH - 5 (30-32')	96				
H12992-15	BH - 5 (35-37')	96				
H12992-16	BH - 5 (40-42')	96				
H12992-17	BH - 5 (45-47')	96				
H12992-18	BH - 5 (50-52')	64				
Quality Cont	Quality Control					
True Value (	500					
% Recovery	100					
Relative Per	2.0					

METHOD: Standard Methods	4500-CFB
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Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

# ARDINAL LABORATORIES

Company Name:

Project Manager:

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Ocotillo Environmental, LLC

	25 French Dr. P.O.Box 18	16				Co	mp	any:	Sport	1e	l										
city: Ho	bb5 State: NM	Zip:	: (	8824	)	At	tn:				1								ĺ		
	6) 441. 7244 Fax #: (43	2)	2-	72-03	504	Ac	dre	ss:				1							.		
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Project Name:	Hawk A-5 #3					St	ate:		Zip:										}		
Project Location	Eugice, NM Cindy Crain					Př	one	#:											,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Sampler Name:	Circly Crain					Fa	x #:				٦,										
FOR LAB USE ONLY	,			MA	TRIX		PR	ESERV	SAMPL	NG	80										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER	OIL	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	Chloride										
H12992-1	BH-3 (55-57')	C	1		1 1				7/25/07	1004	~		-								
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-3	" (65-67')	C	١						11	1021	~										
4	" (70-72')	C	1		4				11	1032	~										
-5	" (75-77')	C	1		1		<u> </u>		4	1046	-	<u> </u>	ļ				ļ			- 4	-
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-8 -0	(90-92')	C	1	<del></del>	1-1-				''	1136	<u></u>				ļ		ļ				
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service. In no event shall Ca	g tnose for negligence and any other cause whatsoever shall be or rdinal be liable for incidental or consequental damages, including	deemed without	waive limita	d unless made tion, business i	in writing a	nd rece	ived by	Cardinal	Within 30 days after	r completion of the	ie applica	ble									
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BILL TO

P.O. #:



Company Name:

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

### ARDINAL LABORATORIES

Ocotillo Environmental,

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

Froject Wanage	" Cindy (rain		P.	O. #	<b>‡:</b>									1	ŀ							
	25 French Dr. P.O. Box 18	ماا			C	omp	any	:	Sam	e					İ	:						
City: Ho	bb5 State: NM	Zip	):	88241	At	tn:			200													
Phone #: (5	05) 441. 7244 Fax#: (43.	<u>2)</u>	2	72-0304	A	dre	988:											1				
Project #:	6-0824 Project Owner			pache	Ci	ty:									1							
Project Name:	Hawk A-5#3				SI	ate:			Zip:									'			į l	
Project Location					Pi	one	e #:															
Sampler Name:	Cindy Crain				Fa	1X #	:				ا , ا				İ							
FOR LAB USE ONLY	,	Γ.	Γ	MATRIX		PR	ESE	RV.	SAMPLI	NG	8											
Lab I.D.	Sample I.D.	C)(G)RAB OR (C)OMP	#CONTAINERS	GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	отнек:	DATE	TIME	Chloride											
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	" (30-32')	C	1		_	$oldsymbol{\perp}$	<u> </u>		11	1414	~											
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-16	" (40-42')	C	<u>  `</u>			_	_		11	1440	<u></u>		<u> </u>									
-17	" (45-47)	C	1			<u> </u>			11	1450	レ							_				
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service. In no event shall C	rij tricke for negligence and any other cause whatsoever shall be c ardinal be lisble for incidental or consequental damages, including	iaame wilhe	d walv	ed unless made in writing stion, business intermedia	and rec	oived t	or too	dinal wi	thin 30 days after	completion of th	no applicat	ble										
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BILL TO

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478



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

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

Receiving Date: 07/26/07 Reporting Date: 07/30/07

Project Number: 6-0824

Project Name: HAWK A-5 #3 Project Location: EUNICE, NM Analysis Date: 07/30/07 Sampling Date: 07/25/07 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: KS

Analyzed By: KS

CI SAMPLE ID LAB NO. (mg/Kg)

H12992-1	BH - 3 (55-57')	5718					
H12992-2	BH - 3 (60-62')	1536					
H12992-3	BH - 3 (65-67')	1200					
H12992-4	BH - 3 (70-72')	1168					
H12992-5	BH - 3 (75-77')	864					
H12992-6	BH - 3 (80-82')	768					
H12992-7	BH - 3 (85-87')	560					
H12992-8	BH - 3 (90-92')	80					
H12992-9	BH - 5 (5-7')	112					
H12992-10	BH - 5 (10-12')	144					
Quality Cont	rol	500					
True Value 0	)C	500					
% Recovery		100					
Relative Per	Relative Percent Difference						

METHOD.	Standard Methods	4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts



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

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

Receiving Date: 07/26/07

Reporting Date: 07/30/07

Project Number: 6-0824
Project Name: HAWK A-5 #3

Project Location: EUNICE, NM

Analysis Date: 07/30/07 Sampling Date: 07/25/07 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: KS

Analyzed By: KS

LAB NO. SAMPLE ID CIT (mg/Kg)

H12992-11 BH - 5 (15-17')	112
H12992-12 BH - 5 (20-22')	128
H12992-13 BH - 5 (25-27')	144
H12992-14 BH - 5 (30-32')	96
H12992-15 BH - 5 (35-37')	96
H12992-16 BH - 5 (40-42')	96
H12992-17 BH - 5 (45-47')	96
H12992-18 BH - 5 (50-52')	64
Quality Control	500
True Value QC	500
% Recovery	100
Relative Percent Difference	2.0

METHOD: Standard Methods	4500-CIB	1
INETHOD. Standard Methods	4300-C1 B	ş

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date



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	Ocoti1						BII	LL TO							Al	VAL	YSI	SR	EQU	EST				٦				
Project Manager	Cindu	y Crain	<b>-</b>		L <del></del>			F	².O.	#:																		٦
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	bb5	State: NM		ı; '	88.	241		Α	ttn	:																		
Phone #: (50	5) 441- 7	7244 Fax#: (43	2)	2	72	-03	04	Α	\dd:	res	3:																	
	-0824	Project Owner				he			ity:																			
Project Name:	Hawk	A-5 #3			•			S	State	e:		Zip:																
Project Location		e. NM						F	ho	ne f	ŧ:																	
Sampler Name:	Cin							F	ax	#:					I/A										Ì			
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Lab I.D.	Sar	mple I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER	ACID/BASE:	ICE / COOL OTHER :	DATE		TIME	Chloride	And the second s												
H12992-L	BH-3	(55-57')	C	Īī		J						7/25/0	7	1004	~													٦
-2	11	(60-62')	C	1		U						11		1010	<b>W</b>													
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-4	11	(70.72)	C	1		<u> </u>			$\perp$	_		31		1032	_	_			_				_	_				_
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



ARDINAL LABORATORIES

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		BILL TO ANALYSIS REQUEST																							
Project Manage	: Cindy	Crain						P.	O. #	:														-	
Address: 212		Dr. P.O. Box 181	6					Co	omp	any;		San	e												
city: Ho	bb5	State: NM	Zlp	;	88.	241		At	tn:										1						
Phone #: (50	5) 441. 7.	244 Fax#: (43.	2)	2	72.	-03	24	Ac	idre	ss:															
	6.0824				pac			CI	ty:																
Project Name:	Hawk	A-5#3						St	ate:		2	ip:													
Project Location								PI	one	#;															
Sampler Name:	Cindy	c. NM						Fa	x #:					,,											
FOR LAB USE ONLY						MA	RIX		PR	ESER	V.	SAMPLIN	IG	8										:	
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service. In no event shall G	irdinal be liable for incide:	nd any other cause whatsoever shall be c ntal or consequentel damages, including	withou	ut limiti	atton, b	usinosa ini	amupto	ns, loss	of use,	or lass a	f prol	lite incurred by cl	iont, its aubsidie	ries,	oblo										
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478



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

ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL ATTN: CINDY CRAIN 2125 FRENCH DR. HOBBS, NM 88240 FAX TO: (432) 272-0304

Receiving Date: 06/29/07 Reporting Date: 07/02/07 Project Owner: APACHE Project Name: HAWK A-5 #3

Project Location: LEA CO., NM

Analysis Date: 06/29/07 Sampling Date: 06/29/07 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: HM

LAB NO. SAMPLE ID CIT (mg/Kg)

H12838-1 V	VEST SIDE (NORTH) SS-2	4599
H12838-2 V	VEST SIDE (SOUTH) SS-1	5038
Quality Control		500
Quality Control		
True Value QC		500
% Recovery		100
Relative Percer	nt Difference	< 0.1

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

H12838 OCO



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	company Name: Ocotillo Environmental acc								<b>BILL TO</b> P.O. #:							ANA	LYS	S R	EQUE	ST	,		
Project Manage	" Civy Crain				IL						,												
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City: 1-10 b 6	State: NM 441-7244 Fax#: \$432 0824 Project Owner Hawk A-5#3	Zip	: E	38231		Attı	n:			· · · · · · · · · · · · · · · · · · ·													
Phone #: 505	- 441-7244 Fax#: 8432	2	27	2-030	4	Ad	dres	s:															
Project #: 6~	0824 Project Owner	: G	lpa	ache		Cit	y:											İ					
Project Name:	Hawk A-5 #3		<u>'</u>			Sta	te:		Z	p:													
Project Location	Steve Cannon					Ph	one	#:			.,,												
Sampler Name:	Steve Cannon		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		l		(#:					ارو				1					1		
FOR LAB USE ONLY  Lab I.D.	Sample I.D.	OR (C)OMP	NNERS	GROUNDWATER WASTEWATER SOIL DAIL DAIL DAIL DAIL DAIL DAIL DAIL DA			PRE			SAMPLI	NG	Chlorid						ı					
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analyses All claims includi	nd Damages Cardinal's liability and client's exclusive remedy for a ing those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including	deeme	d waivi	ed unless made in w	riting and	recei	ved by	Cardin	al with	ก 30 days afte	r completion of t	the applicat	ble										
affiliates or successors ansi	ng out of or related to the performance of services hereunder by C	Cardinal	l, regai	rdless of whether su	th claim is	bas	ed upoi	n any o	of the a	bove stated re	sons or otherw	ise	□ Y	06	No	ιΛdd'	l Phon	a #·					
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,	Time:										REMARK	.5:											
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



PHONE (505) 393-2326 + 101 F, MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL ATTN CINDY CRAIN 2125 FRENCH DR. HOBBS, NM 88240 FAX TO: (432) 272-0304

Receiving Date: 06/29/07 Reporting Date: 07/02/07 Project Owner: APACHE Project Name: HAWK A-5 #3 Project Location: LEA CO., NM Analysis Date: 06/29/07 Sampling Date: 06/29/07 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: HM

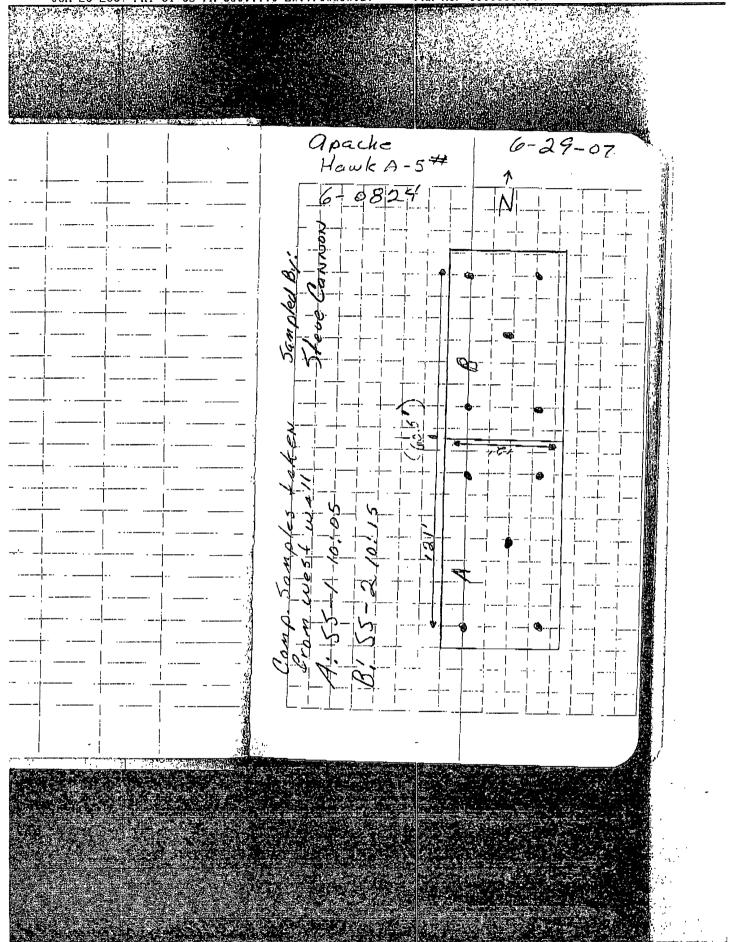
CIT LAB NO. SAMPLE ID (mg/Kg)

H12838-1 WEST SIDE (NORTH) \$\$-2	4599
H12838-2 WEST SIDE (SOUTH) SS-1	5038
	-
Quality Control	500
True Value QC	500
% Recovery	100
Relative Percent Difference	< 0.1

METHOD: Standard Methods	4500-CITB

Note: Analyses performed on 1:4 w:v aqueous extracts.

H12838 OCO





ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

	(505) 393-2326 FAX (505) 393-24	76	(32	5) 6	73-700	1 F	AX	(32	5)6	73-7	020					···········		MAI	YSI	, RI	EQUE	ST			
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City: 1-10 bb	State: NM.	Zip:	0	8:	23(		At	tn:					-				1								
Phone #: 505	State: NM 441-7244 Fax#: \$43: 0924 Project Owner Hawk A-5#3	2	272	2 -	030	4	A	ddre	ISS.				-		<b>\</b>										
Project#: 6-	0924 Project Owner	<u>r:                                    </u>	pa	اح	ne		Ci	ty:					4			1	ļ								1 1
Project Name:	Hawk A-5 #3		•				S	ate:	<u>:</u>		Zip:		4			į			ļ		1				
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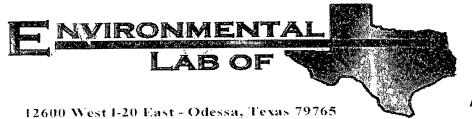
<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

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FAX (325)673-7020	
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(326)673-7001	
5) 393-2476	
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company warne:	· Ocotillo Environmental	277	OR 771199		ANALTOIS	IS REGUES!	T
Project Manager:			P.O. #:				
Address: 2125		7/8/	Company: Ocotillo	0			
City. 140 16 65		p: 8623(	Attn:				
Phone #: 505-	441-1744 F	الم	Address:				
Project#: 6-	6-0924 Project Owner:	apache	City:				
Project Name:	K A-5		State: Zip:				
Project Location:	n: Lea Cs. N.M.		Phone #:				
Sampler Name:	Steve Cannon		Fax#:	ĉ			
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



A Xenco Laboratories Company

## Analytical Report

### Prepared for:

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

Project: Apache- Hawk A-5 #3 Project Number: None Given Location: Eunice, NM

Lab Order Number: 7D12006

Report Date: 04/18/07

Project: Apache- Hawk A-5 #3

Project Number: None Given Project Manager: Cindy Crain Fax (432) 367-6747

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW - 1 (0-2')	7D12006-01	Soil	04/03/07 10.02	04-12-2007 11 00
MW - 1 (5-7')	7D12006-02	Soil	04/03/07 10 12	04-12-2007 11 00
MW - 1 (10-12')	7D12006-03	Soil	04/03/07 10:15	04-12-2007 11:00
MW - 1 (15-17')	7D12006-04	Soil	04/03/07 10:20	04-12-2007 11:00
MW - 1 (20-22')	7D12006-05	Soil	04/03/07 10:27	04-12-2007 11:00
MW - 1 (25-27')	7D12006-06	Soil	04/03/07 10:40	04-12-2007 11:00
MW - 1 (30-32')	7D12006-07	Soil	04/03/07 10.43	04-12-2007 11:00
MW - 1 (35-37')	7D12006-08	Soil	04/03/07 10 48	04-12-2007 11:00
MW - 1 (40-42')	7D12006-09	Soil	04/03/07 10:57	04-12-2007 11:00
MW - 1 (45-47')	7D12006-10	Soil	04/03/07 11:12	04-12-2007 11:00
MW - 1 (50-52')	7D12006-11	Soil	04/03/07 11:20	04-12-2007 11:00
MW - 1 (55-57')	7D12006-12	Soil	04/03/07 11:34	04-12-2007 11:00
MW - 1 (60-62')	7D12006-13	Soil	04/03/07 11:42	04-12-2007 11:00
MW - 1 (65-67')	7D12006-14	Soil	04/03/07 13:10	04-12-2007 11:00
MW - 1 (70-72')	7D12006-15	Soil	04/03/07 13 33	04-12-2007 11:00
MW - 1 (75-77')	7D12006-16	Soil	04/03/07 13:50	04-12-2007 11 00
MW - 1 (80-82')	7D12006-17	Soil	04/03/07 14 05	04-12-2007 11:00
MW - 1 (85-87')	7D12006-18	Soil	04/03/07 14:30	04-12-2007 11:00
MW -1 (90-92')	7D12006-19	Soil	04/03/07 14.48	04-12-2007 11:00
MW - 1 (95-97')	7D12006-20	Soil	04/03/07 14:52	04-12-2007 11:00
MW - 1 (100-102')	7D12006-21	Soil	04/03/07 14:58	04-12-2007 11:00
MW - 1	7D12006-22	Water	04/11/07 12:48	04-12-2007 11.00

Project: Apache- Hawk A-5 #3

Project Number. None Given Project Manager. Cindy Crain

Fax. (432) 367-6747

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW - 1 (0-2') (7D12006-01) Soil						<u> </u>			
Chloride	213	20.0	mg/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	
MW - 1 (5-7') (7D12006-02) Soil	•								
Chloride	160	20.0	mg/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	
MW - 1 (10-12') (7D12006-03) Soil									
Chloride	85.1	20 0	mg/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	
MW - 1 (15-17') (7D12006-04) Soil									
Chloride	85.1	20.0	mg/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	
MW - 1 (20-22') (7D12006-05) Soil									
Chloride	85.1	20.0	mg/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	
MW - 1 (25-27') (7D12006-06) Soil									
Chloride	117	20 0	mg/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	•
MW - 1 (30-32') (7D12006-07) Soil		-	am						
Chloride	95.7	20 0	mg/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	
MW - 1 (35-37') (7D12006-08) Soil									
Chloride	117	20.0	mg/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	
MW - 1 (40-42') (7D12006-09) Soil									
Chloride	106	20 0	mg/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	
MW - 1 (45-47') (7D12006-10) Soil									
Chloride	234	20.0	mg/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	

Project. Apache- Hawk A-5 #3

Project Number None Given Project Manager: Cindy Crain

Fax: (432) 367-6747

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW - 1 (50-52') (7D12006-11) Soil	<u></u>								
Chloride	42.5	20.0 m	ng/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	
MW - 1 (55-57') (7D12006-12) Soil								110. 3000	
Chloride	42.5	20.0 m	ng/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	
MW - 1 (60-62') (7D12006-13) Soil									
Chloride	31.9	20.0 n	ng/kg Wet	2	ED71309	04/13/07	04/13/07	SW 846 9253	
MW - 1 (65-67') (7D12006-14) Soil			******						
Chloride	21.3	20.0 n	ng/kg Wet	2	ED71602	04/16/07	04/16/07	SW 846 9253	
MW - 1 (70-72') (7D12006-15) Soil									
Chloride	21.3	20.0 n	ng/kg Wet	2	ED71602	04/16/07	04/16/07	SW 846 9253	
MW - 1 (75-77') (7D12006-16) Soil									
Chloride	ND	20.0 m	ng/kg Wet	2	ED71602	04/16/07	04/16/07	SW 846 9253	
MW - 1 (80-82') (7D12006-17) Soil									
Chloride	31.9	20 0 n	ng/kg Wet	2	ED71602	04/16/07	04/16/07	SW 846 9253	
MW - 1 (85-87') (7D12006-18) Soil									
Chloride	31.9	20.0 n	ng/kg Wet	2	ED71602	04/16/07	04/16/07	SW 846 9253	
MW -1 (90-92') (7D12006-19) Soil									
Chloride	42.5	20 0 r	ng/kg Wet	2	ED71602	04/16/07	04/16/07	SW 846 9253	
MW - 1 (95-97') (7D12006-20) Soil	**		•						
Chloride	21.3	20.0 r	ng/kg Wet	2	ED71602	04/16/07	04/16/07	SW 846 9253	

Project: Apache- Hawk A-5 #3

Project Number: None Given Project Manager. Cindy Crain

Fax. (432) 367-6747

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

Analyte	1	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW - 1 (100-102') (7D12	2006-21) Soil									
Chloride	•	31.9	20.0 m	g/kg Wet	2	ED71602	04/16/07	04/16/07	SW 846 9253	
MW - 1 (7D12006-22) W	/ater									
Chloride		75.4	5.00	mg/L	10	ED71809	04/18/07	04/18/07	EPA 300 0	

Ocotillo Environmental 2125 French Dr.

Hobbs NM, 88201

Project: Apache- Hawk A-5 #3

Project Number: None Given

Fax: (432) 367-6747

Project Manager: Cındy Crain

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED71309 - Water Extraction										
Blank (ED71309-BLK1)				Prepared	& Analyze	ed: 04/13/0	07			
Chloride	ND	20.0	mg/kg Wet							
LCS (ED71309-BS1)				Prepared	& Analyz	ed: 04/13/0	07			
Chloride	93 6	100	mg/kg Wet	100		93.6	80-120			
Matrix Spike (ED71309-MS1)	Sour	ce: 7D1200	03-01	Prepared	& Analyz	ed: 04/13/	07			
Chloride	447	20 0	mg/kg Wet	500	21 3	85 1	80-120			
Matrix Spike Dup (ED71309-MSD1)	Soui	ce: 7D1200	03-01	Prepared	& Analyz	ed 04/13/	07			
Chloride	457	20 0	mg/kg Wet	500	21 3	87 1	80-120	2.21	20	
Reference (ED71309-SRM1)				Prepared	& Analyz	ed: 04/13/	07			
Chloride	53.2	10 0	mg/kg Wet	50 0		106	80-120			
Batch ED71602 - General Preparation	(WetChem)	)								
Blank (ED71602-BLK1)				Prepared	& Analyz	ed: 04/16/	07			
Chloride	ND	20 0	mg/kg Wet		····					
LCS (ED71602-BS1)				Prepared	& Analyz	ed: 04/16/	07			
Chloride Chloride	93 6	20 0	mg/kg Wet	100		93 6	80-120			
Matrix Spike (ED71602-MS1)	Sou	rce: 7D120	06-14	Prepared	& Analyz	ed: 04/16/	07			
Chloride	436	40 0	mg/kg Wet	500	21 3	82 9	80-120			
Matrix Spike Dup (ED71602-MSD1)	Sou	rce: 7D120	06-14	Prepared	& Analyz	ed: 04/16/	07			
Chloride	457	40 0	mg/kg Wet	500	21.3	87 1	80-120	4 70	20	

Ocotillo Environmental 2125 French Dr.

Hobbs NM, 88201

Project: Apache- Hawk A-5 #3

Project Number None Given Project Manager Cindy Crain

Fax: (432) 367-6747

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED71602 - General Preparation	(WetChen	n)								
Reference (ED71602-SRM1)				Prepared	& Analyz	ed: 04/16/	07			
Chloride	51 0	20 0	mg/kg Wet	50.0		102	80-120			
Batch ED71809 - General Preparation	(WetCher	n)								- tom-
Blank (ED71809-BLK1)				Prepared	& Analyz	ed: 04/18/	07			
Chloride	ND	0.500	mg/L							
LCS (ED71809-BS1)				Prepared	& Analyz	ed: 04/18/	07			
Chloride	11 5	0 500	mg/L	10.0		115	80-120			
Calibration Check (ED71809-CCV1)				Prepared	& Analyz	ed: 04/18/	07			
Chloride	8 56		mg/L	10 0		85 6	80-120			
Duplicate (ED71809-DUP1)	So	urce: 7D120	06-22	Prepared	& Analyz	ed: 04/18/	07			
Chloride	74 9	5 00	mg/L		75 4			0 665	20	
Matrix Spike (ED71809-MS1)	So	urce: 7D120	06-22	Prepared	& Analyz	ed: 04/18/	07			
Chloride	177	5 00	mg/L	100	75 4	102	80-120			

Ocotillo Environmental

Project: Apache- Hawk A-5 #3

2125 French Dr. Hobbs NM, 88201 Project Number: None Given Project Manager: Cindy Crain

Fax. (432) 367-6747

### Notes and Definitions

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 By:

Brent Barron, Laboratory Director/Corp. Technical Director

Celey D. Keene, Org. Tech Director

Raland K. Tuttle, Laboratory Consultant

Data

James Mathis, QA/QC Officer

Jeanne Mc Murrey, Inorg. Tech Director

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

Phone: 432-563-1800 Fax: 432-563-1713 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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Phone: 432-563-1800 Fax: 432-563-1713	Hawk A.	Ļ	NM			L TRRP	e For:		09	28 X3T8	N O R.M BTEX 8021B/5030 on											intact? dspace?	r(s) মৈনিম্ম ɔontainer(s)	ooler(s)	of Rep. ?	
Phone: Fax:	Apache	#	c: Eunite	#		Standard	Analyze	TCLP	+	linity)	Cations (Ca, Mg, Na, Anica SAR / ESP / CEC Metals: As Ag Ba Cd	2	7	7	7	7	7	7	7	2	7	Laboratory Comments: Sample:Containers Infact?  VOCs Free of Headspace?	Labels on containe Custody seals on o	Custody seals on cooler(s)	by Sampler/Chent Rep. ? by Courier? UPS [	
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12600 West I-20 East Odessa, Texas 79765						(432) 272-0304	cindy.crain@gmail.com		Preservation & # of Containers		Total #, of Containers Ice HNO <sub>3</sub> HCI H <sub>2</sub> SO <sub>4</sub> NaOH NaOH	,		-												
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	Cindy Crain	Ocotillo Environmental, LLC	PO Box 1816	O NIA	HODDS, NW 88241	(505) 441-7244			Š	Sapags 2	, CODE	9.)														
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager: <u>C</u>	indy Crain															_	P	roje	t Na	me:	/	Aρ	act	e	H	awk	<u> </u>	<u>-5</u>	, <del>1</del>	<u>3</u>		_
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	Company Address: P	O Box 1816															_		Pro	ect	Loc:		ر ر	ni	e,	N	M						
	City/State/Zip:	lobbs, NM 88241																		P	O #:												
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LAB # (lab use only)	EIELD	CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	lce	-INO <sub>3</sub>	HCI	4 <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None Other / Specify	Ottiel ( Specify) DW=Droking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TX 1005 TX 10	ıs (Ca, Mg, Na,	Anions (Ch.)SO4, Alkalınıty)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260 RCI	NO R.M.			RUSH TAT (Pre-Schedule) 24,		אמווטמו יטי
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Variance/ Corrective Action Report- Sample Log-In

Olient: Ocofillo Env. UC				
Date/ Time: 4-12-07 11:00	<del></del>			
_ab ID#: 7012066	<del></del>			
nitials: AL				
Sample	Receipt Checklist			
Sample	Receipt Officklist		Clie	ent Initials
#1 Temperature of container/ cooler?	Yes	No	8,5 °c	
#2 Shipping container in good condition?	Yes	No		
#3 Custody Seals intact on shipping container/ coole		No	Not Present	
#4 Custody Seals intact on sample bottles/ container		No	Not Present	
#5 Chain of Custody present?	₹ <del>e</del> s	No		
#6 Sample instructions complete of Chain of Custod	y? Yes	No		
#7 Chain of Custody signed when relinquished/ rece		No		٨٥
#8 Chain of Custody agrees with sample label(s)?	Yes	No	(ID written on Cont./(Lid.)	label and
#9 Container label(s) legible and intact?	Yes	No	Not Applicable	30
#10 Sample matrix/ properties agree with Chain of C	ustody? (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		No		
#16 Containers documented on Chain of Custody?	≤Yes	No		
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18 All samples received within sufficient hold time?		No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	
-	nce Documentation			
Contact: Contacted by:		•	Date/ Time:	
Regarding:				
Corrective Action Taken:				
·	nail/ fax Is and would like to pro		-	