1RP-1753

Groundwater Monitor Report

DATE:
July 1, 2008

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

July 1, 2008

Mr. Wayne Price
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Groundwater Monitoring Report
Apache Corporation, Hawk A-5 #3 (1RP # 1753)
Unit Letter O (SW/4, SE/4), Sec. 5, T21S, R37E
Lea County, New Mexico

Dear Mr. Price:

Attached please find a Groundwater Monitoring Report for the Apache Corporation, Hawk A-5 #3 site. Two additional monitoring wells have been installed at your request, and the report provides documentation of the groundwater monitoring activity.

If you have any questions or need additional information, please do not hesitate to call me at (505) 441-7244 or email me at Cindy.Crain@gmail.com.

Sincerely,
Ocotillo Environmental

Cindy K. Crain

Cindy K. Crain, P.G.
Environmental Manager

cc: Harold Swain, Apache
Natalie Gladden, Apache
Larry Johnson, NMOCD, Hobbs, NM

P.O. Box 1816 • Hobbs, NM 88241
Office (505) 393-6371 • Fax (505) 393-6374

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

June 24, 2008

Mr. Wayne Price
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Groundwater Monitoring Report
Apache Corporation, Hawk A-5 #3 (1RP #1753)
Unit Letter O (SW/4, SE/4), Section 5, Township 21 South, Range 37 East,
Lea County, New Mexico
(Latitude: N 32 deg. 30.095' / Longitude: W 103 deg. 10.932')

Dear Mr. Price:

On behalf of Apache Corporation (Apache), Ocotillo Environmental, LLC (Ocotillo) began closure activities at the Hawk A-5 #3 drilling pit on January 25, 2007. The site is located in the southwest quarter (SW/4) of the southeast quarter (SE/4), Section 5, Township 21 South, Range 37 East, Lea County, New Mexico. Figure 1 shows the site location.

Following the collection of soil samples below the pit liner, the installation of soil borings inside and outside of the pit, and the installation of one (1) temporary monitoring well (MW-1) approximately fifteen feet southwest of the southwest corner of the pit, a Request for Approval was submitted via email to Larry Johnson on August 31, 2007, proposing the installation of a clay liner at the depth of the pit excavation (12' bgs), and backfilling of the remaining excavation in order to obtain closure of the pit, along with quarterly monitoring of the groundwater from well MW-1.

Mr. Johnson granted verbal approval of the pit closure on September 19, 2007, using a 40 mil plastic liner instead of clay. It was also agreed that the monitoring well MW-1 would be periodically pumped in order to draw any nearby impacted groundwater to the well, and sampled quarterly for four (4) consecutive quarters.

The pit was backfilled on October 10, 2007 and efforts were made to pump groundwater from monitoring well MW-1. Since the monitoring well was originally constructed as a temporary well and of two-inch casing, pumping efforts were unsuccessful. On November 28, 2007, a replacement well (MW-1R) was installed ten feet east of well MW-1, and constructed with four-inch casing. Pumping of the groundwater from well MW-1R commenced on December 3, 2007, and the first groundwater sample from that well was collected on December 7, 2007. Chloride concentrations in the groundwater sample were reported at 252 mg/L.

A final Pit or Below-Grade Tank Registration or Closure (Form C-144) and an initial Release Notification and Corrective Action (Form C-141) for the Hawk A-5 #3 site, was filed and approved by the NMOCD on January 23, 2008.

P.O. Box 1816 • Hobbs, NM 88241
Office (505) 393-6371 • Fax (505) 393-6374

Following the December 7, 2007 groundwater monitoring event, approximately 150 gallons of water per week was pumped from the well and stored in an open-topped tank for livestock usage. Groundwater monitoring activities were conducted on March 7, 2007. Depth to groundwater in monitoring well MW-1R was measured at 95.3 feet bgs and the concentration of chloride was reported at 300 mg/L. Since the chloride concentration exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard of 250 mg/L, notification was given to Mr. Johnson of the increased chloride concentration in groundwater at the site on March 27, 2008. At the request of Mr. Johnson, all site specific information was forwarded to your office at the time for a determination of further action.

On April 3, 2008, via email, you directed the installation of a down gradient and a side gradient monitoring well in order to determine if the contamination had moved off-site.

Monitoring Well Installations

On May 14 and 15, 2008, monitoring well MW-2 was installed approximately 260 feet southeast of well MW-1R, and well MW-3 was installed approximately 240 feet northeast of well MW-1R. The wells were installed by Scarborough Drilling of Lamesa, Texas, using an air-rotary drilling rig. Using a split-spoon sampling device, soil samples were collected at five-foot intervals, from a depth of approximately five (5) feet below ground surface (bgs) to a depth of approximately 40 feet bgs, and at ten-foot intervals from a depth of 50 feet bgs to 90 feet bgs. The samples were labeled and delivered to Environmental Lab of Texas (ELOT), where they were analyzed for chlorides using EPA method 300. Figure 2 shows the monitoring well locations. Table 1 presents a summary of drilling and completion details. Table 2 provides a summary of the laboratory analyses. Appendix A presents the boring logs and well construction diagrams and Appendix B provides the laboratory and chain of custody documentation.

Referring to Table 2, chloride concentrations in all soil samples collected from the installation of monitoring wells MW-2 and MW-3 were reported below 250 milligrams per kilogram (mg/kg).

Monitoring wells MW-2 and MW-3 were constructed with threaded 4-inch schedule 20 PVC well screen and riser. The well screens, approximately 20 feet in length, were placed above and below the groundwater level observed during drilling. Graded silica sand was placed around the well screen to approximately 3 feet above the screen. Approximately 3 feet of bentonite chips was placed above the sand, and hydrated with potable water. The remainder of the annulus was filled with cement and bentonite grout to about 2 feet BGS. Each well is secured with a locking above-grade cover, anchored in a concrete pad measuring approximately 3 x 3 feet. On June 5, 2008, Piper Surveying Company surveyed the wells for top-of-casing and ground elevations.

On May 16, 2008, the monitoring wells were developed by pumping with an electric submersible pump until groundwater was visibly clear of fine grained sediment.

Groundwater Monitoring

Depth to groundwater was measured in the monitoring wells on May 19, 2008, and ranged from 91.63 feet bgs at well MW-3, to 96.41 feet bgs at well MW-2. The groundwater

elevation ranged from 3410.66 feet above mean sea level (AMSL) at MW-1 to 3410.06 feet AMSL at MW-2. Groundwater flow was to the southeast at approximately 0.0026 feet per foot. Table 3 presents a summary of depth to groundwater measurements on May 19, 2008. Figure 3 presents a groundwater potentiometric surface map for May 19, 2008.

After purging the monitoring wells of three casing volumes, groundwater samples were collected using dedicated disposable polyethylene bailers. The samples were carefully poured into laboratory prepared containers, chilled in an ice chest and delivered under chain of custody control to Cardinal Laboratories (Cardinal), in Hobbs, New Mexico, where they were analyzed for chlorides by EPA method 4500. Table 3 presents a summary of the chloride analyses of groundwater samples. Appendix B presents the laboratory reports and chain of custody documentation.

Referring to Table 3, the chloride concentrations from samples collected at well MW-1R (116 mg/L), MW-2 (116 mg/L) and well MW-3 (92 mg/L) were all below the NMWQCC standard of 250 milligrams per liter (mg/L).

As chloride concentrations in groundwater at the site are well below 250 mg/L, Apache respectfully requests that closure of the site be granted by the NMOCD. If you have any questions or need additional information, please call Mr. Harold Swain at (432) 527-3311 or myself at (505) 441-7244. We may also be reached by email at Harold.Swain@usa.apachecorp.com or Cindy.Crain@gmail.com.

Sincerely,
Ocotillo Environmental, LLC

Cindy K. Crain

Cindy K. Crain, P.G.
Environmental Manager

cc: Harold Swain, Apache
Natalie Gladden, Apache

FIGURES

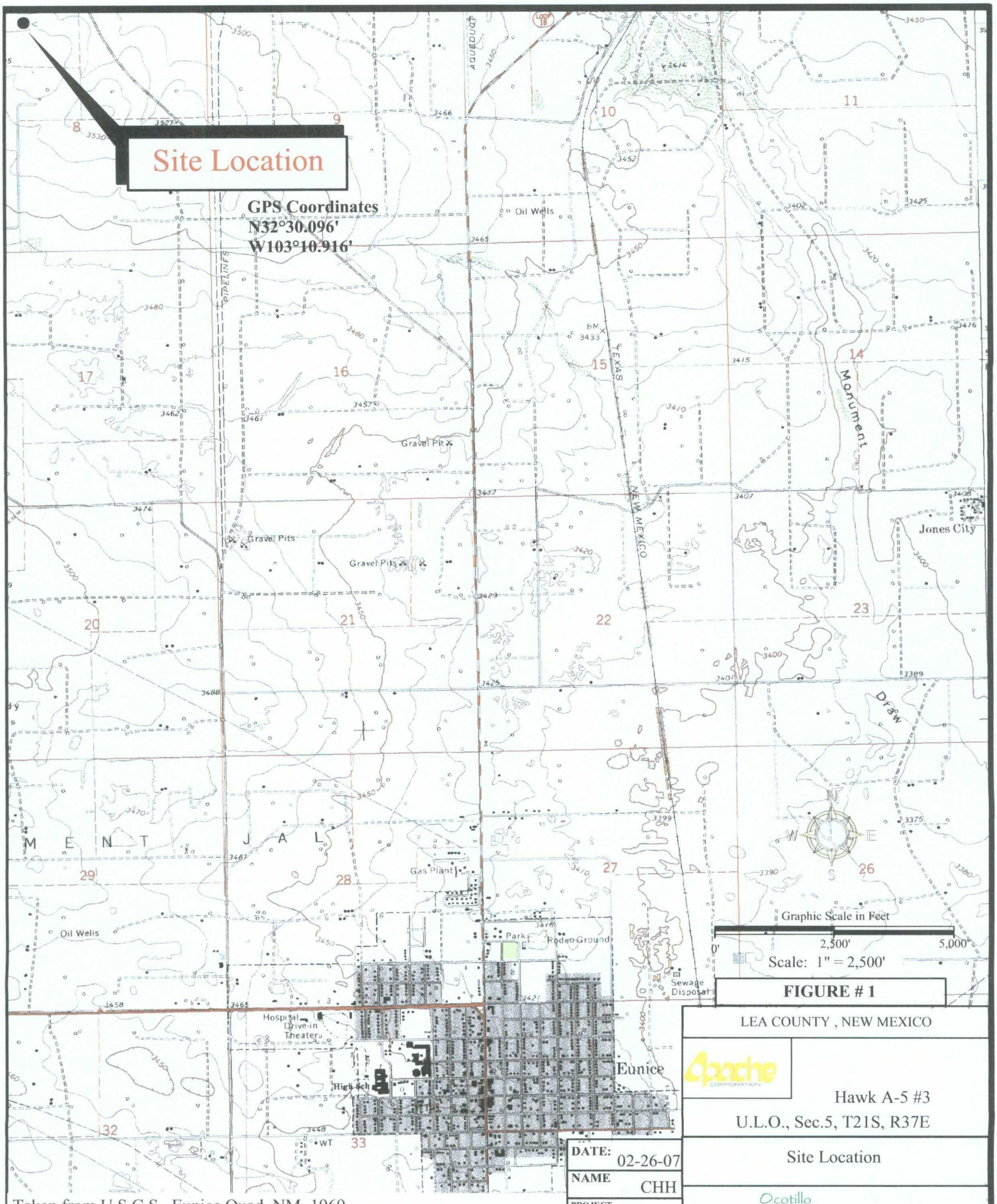


FIGURE # 1

LEA COUNTY , NEW MEXICO

Hawk A-5 #3

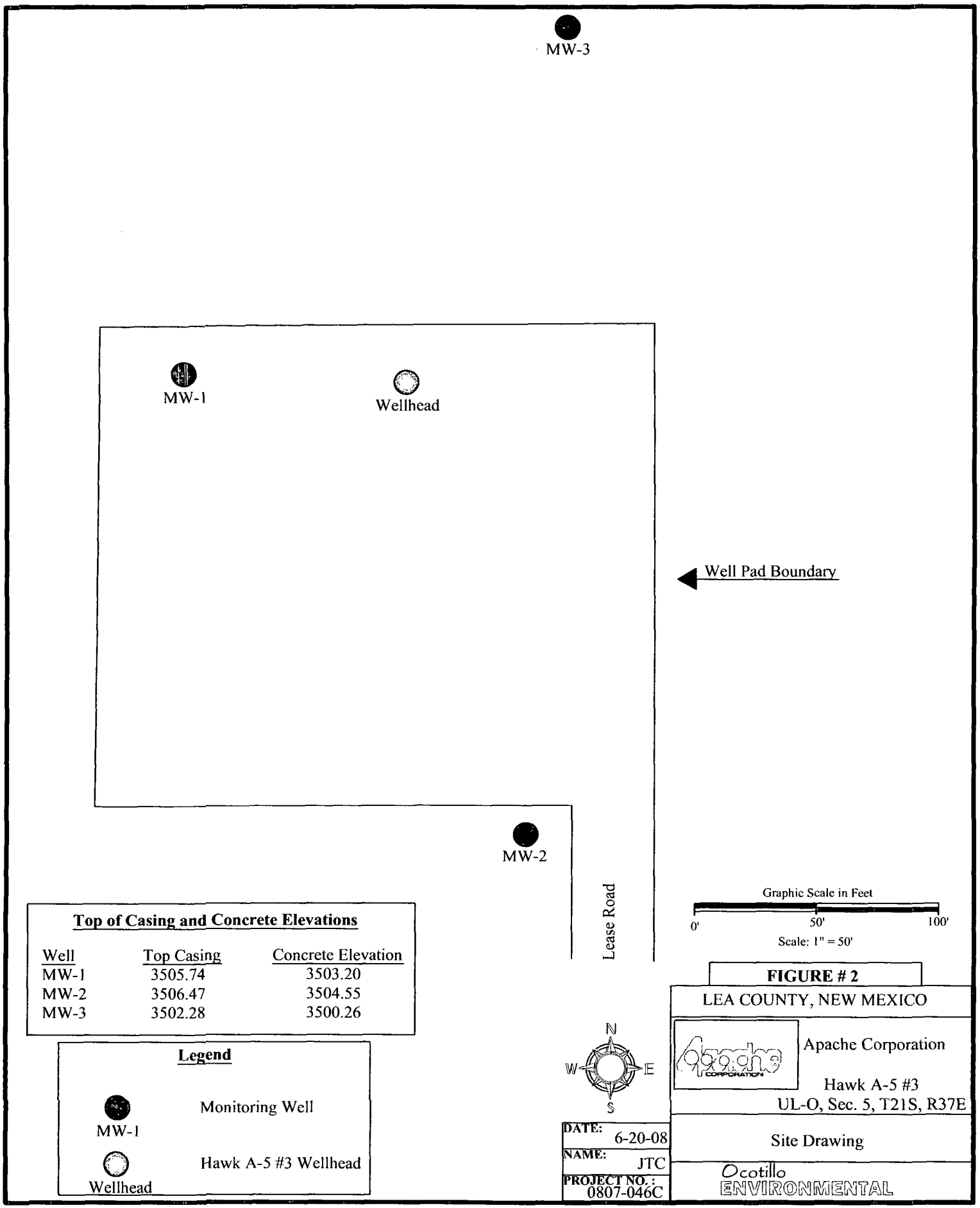
U.L.O., Sec.5, T21S, R37E

Site Location

DATE:	02-26-07
NAME	CHH
PROJECT NO.:	6-0824

Taken from U.S.G.S. Eunice Quad, NM 1969

Ocotillo ENVIRONMENTAL



Top of Casing and Concrete Elevations

Well	Top Casing	Concrete Elevation
MW-1	3505.74	3503.20
MW-2	3506.47	3504.55
MW-3	3502.28	3500.26

Legend

MW-1 — Monitoring Well

Wellhead — Hawk A-5 #3 Wellhead

FIGURE # 2

LEA COUNTY, NEW MEXICO

Apache Corporation

Hawk A-5 #3

UL-O, Sec. 5, T21S, R37E

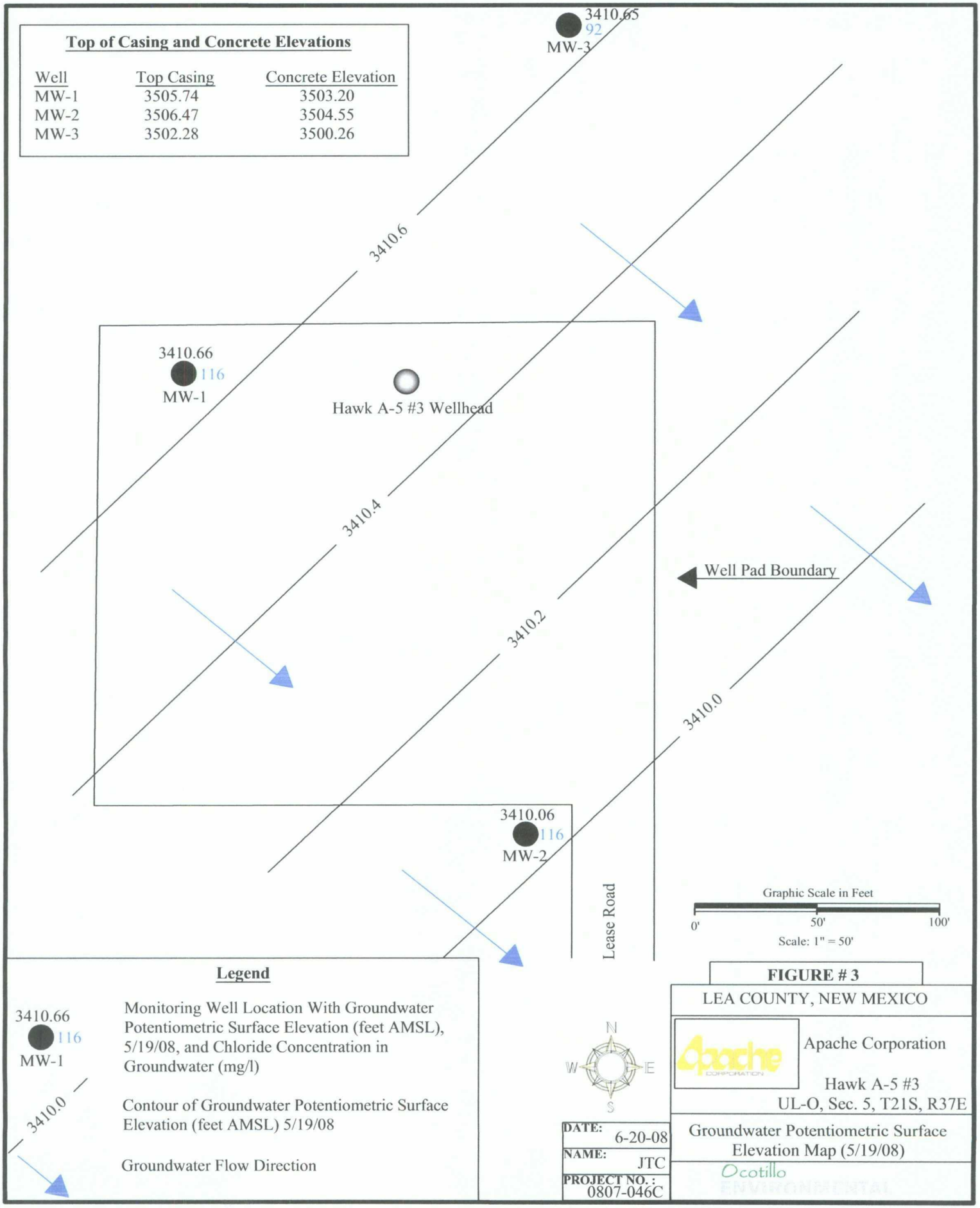
Site Drawing

DATE: 6-20-08

NAME: JTC

PROJECT NO.: 0807-046C

Ocotillo ENVIRONMENTAL


Top of Casing and Concrete Elevations
Well | Top Casing | Concrete Elevation
MW-1 | 3505.74 | 3503.20
MW-2 | 3506.47 | 3504.55
MW-3 | 3502.28 | 3500.26
3410.65
92
MW-3
3410.6
3410.66
116
MW-1
Hawk A-5 #3 Wellhead
3410.4
Well Pad Boundary
3410.2
3410.0
3410.06
116
MW-2
Lease Road
Graphic Scale in Feet
0'
50'
100'
Scale: 1" = 50'
Legend
3410.66
116
MW-1
Monitoring Well Location With Groundwater Potentiometric Surface Elevation (feet AMSL), 5/19/08, and Chloride Concentration in Groundwater (mg/l)
3410.0
Contour of Groundwater Potentiometric Surface Elevation (feet AMSL) 5/19/08
Groundwater Flow Direction
N
W
E
S
FIGURE # 3
LEA COUNTY, NEW MEXICO
Apache Corporation
Hawk A-5 #3
UL-O, Sec. 5, T21S, R37E
Groundwater Potentiometric Surface Elevation Map (5/19/08)
DATE: 6-20-08
NAME: JTC
PROJECT NO. : 0807-046C
Ocotillo ENVIRONMENTAL

TABLES

Table 1: **Summary of Monitoring Well Drilling and Completion Details**
Apache Hawk A-5 #3
Unit Letter O, Section 5, Township 21 South, Range 37 East
Lea County, New Mexico

Well Number	Date Drilled	Concrete Elevation (Feet AMSL)	Top of Casing Elevation (Feet AMSL)	Drilled Depth (Feet BGS)	Well Depth (Feet TOC)	Well Diameter (Inches)	Screen Interval (Feet BGS)	Depth to Groundwater 5-19-08 (Feet TOC)
MW-1R	11/28/2007	3503.20	3505.74	110.0	112.54	4	90-110	95.08
MW-2	5/14/2008	3504.55	3506.47	112.0	113.92	4	92-112	96.41
MW-3	5/15/2008	3500.26	3502.28	102.0	104.02	4	82-102	91.63

Notes: Wells installed by Scarborough Drilling, Inc., Lamesa, Texas

1. BGS: Depth in feet below ground surface
2. AMSL: Elevation in feet above mean sea level
3. TOC: Depth in feet below top-of-casing

Table 2: Summary of Laboratory Analysis of Soil from Monitoring Wells
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	Sample Depth (feet BGS)	Chloride (mg/kg)
WQCC Standard			**250**
4/3/07	MW-1	0-2	213.0
		5-7	160.0
		10-12	85.1
		15-17	85.1
		20-22	85.1
		25-27	117.0
		30-32	95.7
		35-37	117.0
		40-42	106.0
		45-47	234.0
		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
		100-102	31.9
5/14/08	MW-2	5-7	19.1
		10-12	101.0
		15-17	69.0
		20-22	40.6
		25-27	62.7
		30-32	48.7
		35-37	48.8
		40-42	63.3
		50-52	25.7
		60-62	<5.0
		70-72	<5.0
		80-82	<5.0
		90-92	<5.0

Sample Date	Soil Sample Number	Sample Depth (feet BGS)	Chloride (mg/kg)
WQCC Standard			**250**
5/15/08	MW-3	5-7	<5.0
		10-12	40.5
		15-17	30.6
		20-22	76.8
		25-27	72.4
		30-32	68.1
		35-37	47.0
		40-42	54.6
		50-52	81.5
		60-62	<25.0
		70-72	<25.0
		80-82	<25.0
		90-92	<25.0

Analysis conducted by Environmental Lab of Texas, Odessa, TX

Notes:

1. BGS: Depth in feet below ground surface
2. mg/kg: Milligrams per kilogram

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

Sample Date	Well Name	Depth to Groundwater (feet btoc)	Chloride (mg/L)
WQCC Standard			250
4/11/07	MW-1	92.15	75
12/7/07	MW-1R	95.1	252.0
3/7/08		95.3	300.0
5/19/08		95.08	116.0
5/19/08	MW-2	96.41	116.0
5/19/08	MW-3	91.63	92.0

Analysis conducted by Cardinal Laboratories, Hobbs, NM

Notes:

1. btoc: Below top of casing
2. mg/L: Milligrams per liter

APPENDIX A

Soil Boring and Well Construction Diagrams

Client: Apache

Project: Hawk A-5 #3

Project No.: 0807-046C

Location: Eunice, NM

Log: MW-1R

Page: 1 of 1

Geologist: Cindy Crain

Depth	Symbol	Description	Number	Type	Recovery	PID (ppm) 500	Well Construction	Well Completion Details
0		Ground Surface						
0–45		**Dark Brown Silty Sand** Fine grained quartz sand, poorly sorted, damp. **Caliche** Pinkish white, fine to very fine grained, indurated, dry.						Above ground steel casing 0 - 2 feet bgs: Concrete surface seal 0 - 90 feet bgs: Schedule 20 PVC threaded casing 2 - 82 feet bgs: Cement-Bentonite Grout
50–110		**Sand** Light tan quartz sand, fine grained, well sorted, loose, dry.						82 - 86 feet bgs: Bentonite Pellets 86 - 110 feet bgs: Sand 90 - 110 feet bgs: Schedule 20, 0.02 inch slotted, threaded PVC Screen Depth to Water (12/7/07) = 95.10' 110': PVC Cap
110		**TD at 110 feet**						

Ocotillo Environmental, LLC
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Drill Method: Air Rotary

Drill Date: 11/28/07

Well Size: 4"

Elevation: NA 0

Checked by: C. Crain

Drilled by: Scarborough Drilling

Client: Apache

Project: Hawk A-5 #3

Project No.: 0807-046C

Location: Eunice, NM

Log: MW-2

Page: 1 of 1

Geologist: Cindy Crain

Depth	Symbol	Description	Number	Type	Recovery	PID (ppm) 500	Well Construction	Well Completion Details
0		Ground Surface						
0–45		**Caliche** Pinkish white, fine to very fine grained, indurated, dry.						Above ground steel casing 0 - 2 feet bgs: Concrete surface seal 0 - 92 feet bgs: Schedule 20 PVC threaded casing 2 - 86 feet bgs: Cement-Bentonite Grout
45–50		**Light Brown Sandstone** Light brown poorly sorted quartz sand, fine to very fine grained, dry.						
50–112		**Sand** Light reddish brown quartz sand, very fine grained, loose.						86 - 89 feet bgs: Bentonite Pellets 92 - 112 feet bgs: Schedule 20, 0.02 inch slotted, threaded PVC Screen Depth to Water (5/19/08) = 96.41' 89 - 112 feet bgs: Sand 112': PVC Cap
115		**TD at 112 feet**						

Drill Method: Air Rotary

Drill Date: 5/14/08

Well Size: 4"

Ocotillo Environmental, LLC
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: 3504.55

Checked by: C. Crain

Drilled by: Scarborough Drilling

Client: Apache

Project: Hawk A-5 #3

Project No.: 0807-046C

Location: Eunice, NM

Log: MW-3

Page: 1 of 1

Geologist: Cindy Crain

Depth	Symbol	Description	Number	Type	Recovery	PID (ppm) 500	Well Construction	Well Completion Details
0		Ground Surface						
0–30		**Caliche** Pinkish white, fine to very fine grained, indurated, dry.						Above ground steel casing 0 - 2 feet bgs: Concrete surface seal 0 - 82 feet bgs: Schedule 20 PVC threaded casing
30–50		**Sand** Light tan, very fine grained quartz sand, very well sorted, dry.						2 - 76 feet bgs: Cement-Bentonite Grout
45–50		**Sand and Sandstone** Light brown to reddish brown sand and sandstone, very fine grained quartz sand, moderately well sorted, dry.						
50–100		**Sand** Light brown quartz sand, very fine grained, well sorted, loose.						76 - 79 feet bgs: Bentonite Pellets 82 - 102 feet bgs: Schedule 20, 0.02 inch slotted, threaded PVC Screen Depth to Water (5/19/08) = 91.63' 79 - 102 feet bgs: Sand 102': PVC Cap
105		**TD at 102 feet**						

Ocotillo Environmental, LLC
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Drill Method: Air Rotary

Drill Date: 5/15/08

Well Size: 4"

Elevation: 3500.26

Checked by: C. Crain

Drilled by: Scarborough Drilling

APPENDIX B

Laboratory and Chain of Custody Documentation

Analytical Report 304034

for

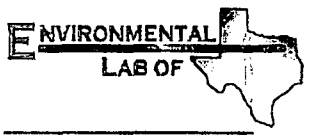
Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Apache Hawk A-5 # 3

0807-046C

20-MAY-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

20-MAY-08

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

Reference: XENCO Report No: **304034**
Apache Hawk A-5 # 3
Project Address: Eunice, NM

Cindy Crain:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 304034. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 304034 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 304034

Ocotillo Environmental, LLC, Hobbs, NM

Apache Hawk A-5 # 3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2 (5-7')	S	May-14-08 09:40	5 - 7 ft	304034-001
MW-2 (10-12')	S	May-14-08 09:45	10 - 12 ft	304034-002
MW-2 (15-17')	S	May-14-08 09:50	15 - 17 ft	304034-003
MW-2 (20-22')	S	May-14-08 09:58	20 - 22 ft	304034-004
MW-2 (25-27')	S	May-14-08 10:03	25 - 27 ft	304034-005
MW-2 (30-32')	S	May-14-08 10:09	30 - 32 ft	304034-006
MW-2 (35-37')	S	May-14-08 10:15	35 - 37 ft	304034-007
MW-2 (40-42')	S	May-14-08 10:23	40 - 42 ft	304034-008
MW-2 (50-52')	S	May-14-08 10:29	50 - 52 ft	304034-009
MW-2 (60-62')	S	May-14-08 10:47	60 - 62 ft	304034-010
MW-2 (70-72')	S	May-14-08 13:26	70 - 72 ft	304034-011
MW-2 (80-82')	S	May-14-08 13:38	80 - 82 ft	304034-012
MW-2 (90-92')	S	May-14-08 14:20	90 - 92 ft	304034-013
MW-3 (5-7')	S	May-15-08 10:20	5 - 7 ft	304034-014
MW-3 (10-12')	S	May-15-08 10:25	10 - 12 ft	304034-015
MW-3 (15-17')	S	May-15-08 10:29	15 - 17 ft	304034-016
MW-3 (20-22')	S	May-15-08 10:37	20 - 22 ft	304034-017
MW-3 (25-27')	S	May-15-08 10:44	25 - 27 ft	304034-018
MW-3 (30-32')	S	May-15-08 10:50	30 - 32 ft	304034-019
MW-3 (35-37')	S	May-15-08 10:59	35 - 37 ft	304034-020
MW-3 (40-42')	S	May-15-08 11:03	40 - 42 ft	304034-021
MW-3 (50-52')	S	May-15-08 12:50	50 - 52 ft	304034-022
MW-3 (60-62')	S	May-15-08 12:59	60 - 62 ft	304034-023
MW-3 (70-72')	S	May-15-08 13:03	70 - 72 ft	304034-024
MW-3 (80-82')	S	May-15-08 13:23	80 - 82 ft	304034-025
MW-3 (90-92')	S	May-15-08 13:47	90 - 92 ft	304034-026

Certificate of Analysis Summary 304034

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Apache Hawk A-5 # 3

Project Id: 0807-046C
Contact: Cindy Crain
Project Location: Eunice, NM

Date Received in Lab: Fri May-16-08 03:08 pm
Report Date: 20-MAY-08
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	304034-001		304034-002		304034-003		304034-004		304034-005		304034-006	
	Field Id:	MW-2 (5-7')		MW-2 (10-12')		MW-2 (15-17')		MW-2 (20-22')		MW-2 (25-27')		MW-2 (30-32')	
	Depth:	5-7 ft		10-12 ft		15-17 ft		20-22 ft		25-27 ft		30-32 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-14-08 09:40		May-14-08 09:45		May-14-08 09:50		May-14-08 09:58		May-14-08 10:03		May-14-08 10:09	
Inorganic Anions by EPA 300	*Extracted:*												
	Analyzed:	May-19-08 09:42		May-19-08 09:42		May-19-08 09:42		May-19-08 09:42		May-19-08 09:42		May-19-08 09:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		19.1	5.00	101	10.0	69.0	10.0	40.6	5.00	62.7	5.00	48.7	5.00

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 304034

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Apache Hawk A-5 # 3

Project Id: 0807-046C
Contact: Cindy Crain
Project Location: Eunice, NM

Date Received in Lab: Fri May-16-08 03:08 pm
Report Date: 20-MAY-08
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	304034-007		304034-008		304034-009		304034-010		304034-011		304034-012	
	Field Id:	MW-2 (35-37')		MW-2 (40-42')		MW-2 (50-52')		MW-2 (60-62')		MW-2 (70-72')		MW-2 (80-82')	
	Depth:	35-37 ft		40-42 ft		50-52 ft		60-62 ft		70-72 ft		80-82 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-14-08 10:15		May-14-08 10:23		May-14-08 10:29		May-14-08 10:47		May-14-08 13:26		May-14-08 13:38	
Inorganic Anions by EPA 300	***Extracted:***												
	Analyzed:	May-19-08 09:42		May-19-08 09:42		May-19-08 09:42		May-19-08 09:42		May-19-08 09:42		May-19-08 09:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		48.8	5.00	63.3	5.00	25.7	5.00	ND	5.00	ND	5.00	ND	5.00

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 304034

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Apache Hawk A-5 # 3

Project Id: 0807-046C
Contact: Cindy Crain
Project Location: Eunice, NM

Date Received in Lab: Fri May-16-08 03:08 pm
Report Date: 20-MAY-08
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	304034-013		304034-014		304034-015		304034-016		304034-017		304034-018	
	Field Id:	MW-2 (90-92')		MW-3 (5-7')		MW-3 (10-12')		MW-3 (15-17')		MW-3 (20-22')		MW-3 (25-27')	
	Depth:	90-92 ft		5-7 ft		10-12 ft		15-17 ft		20-22 ft		25-27 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-14-08 14:20		May-15-08 10:20		May-15-08 10:25		May-15-08 10:29		May-15-08 10:37		May-15-08 10:44	
Inorganic Anions by EPA 300	***Extracted:***												
	Analyzed:	May-19-08 09:42		May-19-08 09:42		May-19-08 09:42		May-19-08 09:42		May-19-08 09:42		May-19-08 09:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5.00	ND	5.00	40.5	5.00	30.6	5.00	76.8	5.00	72.4	5.00

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 304034

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Apache Hawk A-5 # 3

Project Id: 0807-046C
Contact: Cindy Crain
Project Location: Eunice, NM

Date Received in Lab: Fri May-16-08 03:08 pm
Report Date: 20-MAY-08
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	304034-019		304034-020		304034-021		304034-022		304034-023		304034-024	
	Field Id:	MW-3 (30-32')		MW-3 (35-37')		MW-3 (40-42')		MW-3 (50-52')		MW-3 (60-62')		MW-3 (70-72')	
	Depth:	30-32 ft		35-37 ft		40-42 ft		50-52 ft		60-62 ft		70-72 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-15-08 10:50		May-15-08 10:59		May-15-08 11:03		May-15-08 12:50		May-15-08 12:59		May-15-08 13:03	
Inorganic Anions by EPA 300	*Extracted:*												
	Analyzed:	May-19-08 09:42		May-19-08 09:42		May-19-08 18:15		May-19-08 18:15		May-19-08 18:15		May-19-08 18:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		68.1	5.00	47.0	5.00	54.6	5.00	81.5	25.0	ND	25.0	ND	25.0

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 304034

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Apache Hawk A-5 # 3

Project Id: 0807-046C
Contact: Cindy Crain
Project Location: Eunice, NM

Date Received in Lab: Fri May-16-08 03:08 pm
Report Date: 20-MAY-08
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	304034-025	304034-026				
	Field Id:	MW-3 (80-82')	MW-3 (90-92')				
	Depth:	80-82 ft	90-92 ft				
	Matrix:	SOIL	SOIL				
	Sampled:	May-15-08 13:23	May-15-08 13:47				
Inorganic Anions by EPA 300	*Extracted:*						
	Analyzed:	May-19-08 18:15	May-19-08 18:15				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		ND 25.0	ND 25.0				

Brent Barron
Odessa Laboratory Director

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Blank Spike Recovery

Project Name: Apache Hawk A-5 # 3

Work Order #: 304034 **Project ID:** 0807-046C

Lab Batch #: 723054 **Sample:** 723054-1-BKS **Matrix:** Solid
Date Analyzed: 05/19/2008 **Date Prepared:** 05/19/2008 **Analyst:** LATCOR
Reporting Units: mg/kg **Batch #:** 1 BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	8.64	86	75-125	

Lab Batch #: 723058 **Sample:** 723058-1-BKS **Matrix:** Solid
Date Analyzed: 05/19/2008 **Date Prepared:** 05/19/2008 **Analyst:** LATCOR
Reporting Units: mg/kg **Batch #:** 1 BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	8.75	88	75-125	

Blank Spike Recovery [D] = 100[C]/[B]*
All results are based on MDL and validated for QC purposes.

Form 3 - MS Recoveries

Project Name: Apache Hawk A-5 # 3

Work Order #: 304034

Lab Batch #: 723054 **Project ID:** 0807-046C

Date Analyzed: 05/19/2008 **Date Prepared:** 05/19/2008 **Analyst:** LATCOR

QC- Sample ID: 304034-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	19.1	100	106	87	75-125	

Lab Batch #: 723058

Date Analyzed: 05/19/2008 **Date Prepared:** 05/19/2008 **Analyst:** LATCOR

QC- Sample ID: 304034-021 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	54.6	100	144	89	75-125	

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

Sample Duplicate Recovery

Project Name: Apache Hawk A-5 # 3

Work Order #: 304034

Lab Batch #: 723054 **Project ID:** 0807-046C

Date Analyzed: 05/19/2008 **Date Prepared:** 05/19/2008 **Analyst:** LATCOR

QC- Sample ID: 304034-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	19.1	10.5	58	20	F

Lab Batch #: 723058

Date Analyzed: 05/19/2008 **Date Prepared:** 05/19/2008 **Analyst:** LATCOR

QC- Sample ID: 304034-021 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	54.6	53.9	1	20	

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

Environmental Lab of Texas

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 Crain
Company Name: Ocotillo Environmental, LLC
Company Address: PO Box 1818
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain e-mail: cindy.crain@gmail.com

Project Name: Apache Hawk A-5 #3
Project #: 0807-046C
Project Loc: Eunice, NM
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 304034

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1	8015M	TX 1005	TX 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or RTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-2 (5-7')	5	7	5/14/08	0940		1							✓		S					✓									✓
02	" (10-12')	10	12	"	0945		1							✓		S					✓									✓
03	" (15-17')	15	17	"	0950		1							✓		S					✓									✓
04	" (20-22')	20	22	"	0958		1							✓		S					✓									✓
05	" (25-27')	25	27	"	1003		1							✓		S					✓									✓
06	" (30-32')	30	32	"	1009		1							✓		S					✓									✓
07	" (35-37')	35	37	"	1015		1							✓		S					✓									✓
08	" (40-42')	40	42	"	1023		1							✓		S					✓									✓
09	" (50-52')	50	52	"	1029		1							✓		S					✓									✓
10	" (60-62')	60	62	"	1047		1							✓		S					✓									✓

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Cindy Crain	5/14/08	5:18			
Relinquished by:	Date	Time	Received by	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lam	5-16-08	15:03

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
402-glass
Temperature Upon Receipt: 21.5 °C

Environmental Lab of Texas

Page 2 of 3

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 Crain
Company Name: Ocotillo Environmental, LLC
Company Address: PO Box 1616
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244
Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
e-mail: cindy.crain@gmail.com

Project Name: Apache Hawk A-5 #3
Project #: 0807-046C
Project Loc: Eunice, NM
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 304034

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (DW=Drinking Water SL=Sludge, GW=Groundwater S=Soil/Solid, NP=Non-Potable Specify Other)	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	MW-2 (70-72')	70	72	5/14/08	1326		1							✓		S				✓									✓
12	" (80-82')	80	82	"	1338		1							✓		S				✓									✓
13	" (90-92')	90	92	"	1420		1							✓		S				✓									✓
14	MW-3 (5-7')	5	7	5/15/08	1020		1							✓		S				✓									✓
15	" (10-12')	10	12	"	1025		1							✓		S				✓									✓
16	" (15-17')	15	17	"	1029		1							✓		S				✓									✓
17	" (20-22')	20	22	"	1037		1							✓		S				✓									✓
18	" (25-27')	25	27	"	1044		1							✓		S				✓									✓
19	" (30-32')	30	32	"	1050		1							✓		S				✓									✓
20	" (35-37')	35	37	"	1059		1							✓		S				✓									✓

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Cindy Crain	5/16/08	1508			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea [illegible]	5-16-08	15:08

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? Y (N/A)
Labels on container(s) (Y) N
Custody seals on container(s) Y (N)
Custody seals on cooler(s) Y (N)
Sample Hand Delivered (Y) N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
4029 1435
Temperature Upon Receipt: 21.5 °C

[redacted]

Environmental Lab of Texas

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 Crain
Company Name: Ocotillo Environmental, LLC
Company Address: PO Box 1818
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain e-mail: cindy.crain@gmail.com

Project Name: Apache Hawk A-5 #3
Project #: 0807-046C
Project Loc: Eunice, NM
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 304034

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 8015M 8015B	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Scheduled) 24, 48, 72 hrs	Standard TAT
21	MW-3 (40-42')	40	42	5/15/08	1103		1							✓		S						✓								✓
22	" (50-52')	50	52	"	1250		1							✓		S						✓								✓
23	" (60-62')	60	62	"	1259		1							✓		S						✓								✓
24	" (70-72')	70	72	"	1303		1							✓		S						✓								✓
25	" (80-82')	80	82	"	1323		1							✓		S						✓								✓
26	" (90-92')	90	92	"	1347		1							✓		S						✓								✓

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Cindy Crain	5/16/08	1508			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Law	5-16-08	15:08

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
4cyl-155
Temperature Upon Receipt: 21.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Ortillo Env.

Date/ Time: 5.16.08 15:08

Lab ID # : 304034

Initials: AL

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	21.5 °C	
#2 Shipping container in good condition?	(Yes)	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present)	
#5 Chain of Custody present?	(Yes)	No		
#6 Sample instructions complete of Chain of Custody?	(Yes)	No		
#7 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?	Yes	No	(Not Applicable)	
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11 Containers supplied by ELOT?	(Yes)	No		
#12 Samples in proper container/ bottle?	(Yes)	No	See Below	
#13 Samples properly preserved?	(Yes)	No	See Below	
#14 Sample bottles intact?	(Yes)	No		
#15 Preservations documented on Chain of Custody?	(Yes)	No		
#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?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20 VOC samples have zero headspace?	Yes	No	(Not Applicable)	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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

Receiving Date: 05/19/08
Reporting Date: 05/19/08
Project Owner: APACHE (0807-046C)
Project Name: HAWK A-5 #3
Project Location: LEA COUNTY, NM

Analysis Date: 05/19/08
Sampling Date: 05/19/08
Sample Type: GROUNDWATER
Sample Condition: INTACT
Sample Received By: ML
Analyzed By: KS

LAB NO.	SAMPLE ID	Cl^- (mg/L)
H14842-1	MW #1	116
H14842-2	MW #2	116
H14842-3	MW #3	92
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods	4500-Cl⁻B

Chemist

05/19/08
Date

H14842 OCO

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page_____ of _____

Company Name:	Ocotillo Environmental LLC	**BILL TO**	
Project Manager:	Cindy Crain	P.O. #:	
Address:	2125 French Dr.	Company:	Ocotillo
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575-441-7244	Fax #: 432-272-0304	Address:
Project #:	0807-046C	Project Owner: Apache	City:
Project Name:	Hawk A-5 #3		State: Zip:
Project Location:	Lea. Co. N.M.		Phone #:
Sampler Name:	Steve Canyon		Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride
H14842-1	MW#1	G	1	✓									5-19-08	11:03	✓
-2	MW#2	G	1	✓									"	12:21	✓
-3	MW#3	G	1	✓									"	2:17	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Steve Canyon	Date: 5-19-08 Time: 2:47	Received By: Misty LeBert
Relinquished By:		Date: Time:	Received By:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Temp.	Sample Condition Cool ☐ Yes ☐ No Intact ☑ Yes ☐ No
			CHECKED BY: (Initials) MBB

Phone Result: ☐ Yes ☑ No Add'l Phone #:
Fax Result: ☑ Yes ☐ No Add'l Fax #:
REMARKS:
Fax # 432-272-0304

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