

jerry brian

From: "Swain, Harold" <Harold.Swain@usa.apachecorp.com>
To: <jrbrian@verizon.net>
Sent: Tuesday, March 13, 2007 6:29 AM
Attach: Figure #4.pdf; Figure #5.pdf; Figure #6.pdf; Table 2 - Analytical Data (soil).xls; Table 3 - Analytical Data (water).xls
Subject: FW: Apache Corporation - NEDU 627 Pit (EPI Ref. #24002)

-----Original Message-----

From: David Duncan [mailto:dduncan@envplus.net]
Sent: Monday, March 12, 2007 2:31 PM
To: Swain, Harold
Cc: cmiller@envplus.net; jstegemoller@envplus.net
Subject: Apache Corporation - NEDU 627 Pit (EPI Ref. #24002)

Mr. Swain:

On 3/9/06 (Friday) EPI received a phone call from Mr. Larry Johnson (NMOCD – Hobbs) concerning Field Analyses and Laboratory Analytical Data for the above referenced project. Although EPI is no longer in charge of the project, the information Mr. Johnson requested was put into tabular form and is being directed to your attention. Included for your review and information are Table #2 (Soil Field and Laboratory Analytical Data), Table #3 (Water Laboratory Analytical Data) and Figures #4-#6 (Soil Sampling Figures - hand drawn). Please give EPI directions as to whether Apache Corporation or EPI will relay this information to Mr. Johnson.

If you have any questions, concerns or need additional information, please contact me at (505) 394-3481 or via e-mail at dduncan@envplus.net.

Sincerely,

ENVIRONMENTAL PLUS, INC.

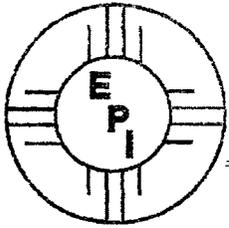
David P. Duncan
Civil Engineer

Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue 'O'
Eunice, New Mexico 88231

(505) 394-3481
(505) 394-2601 (facsimile)

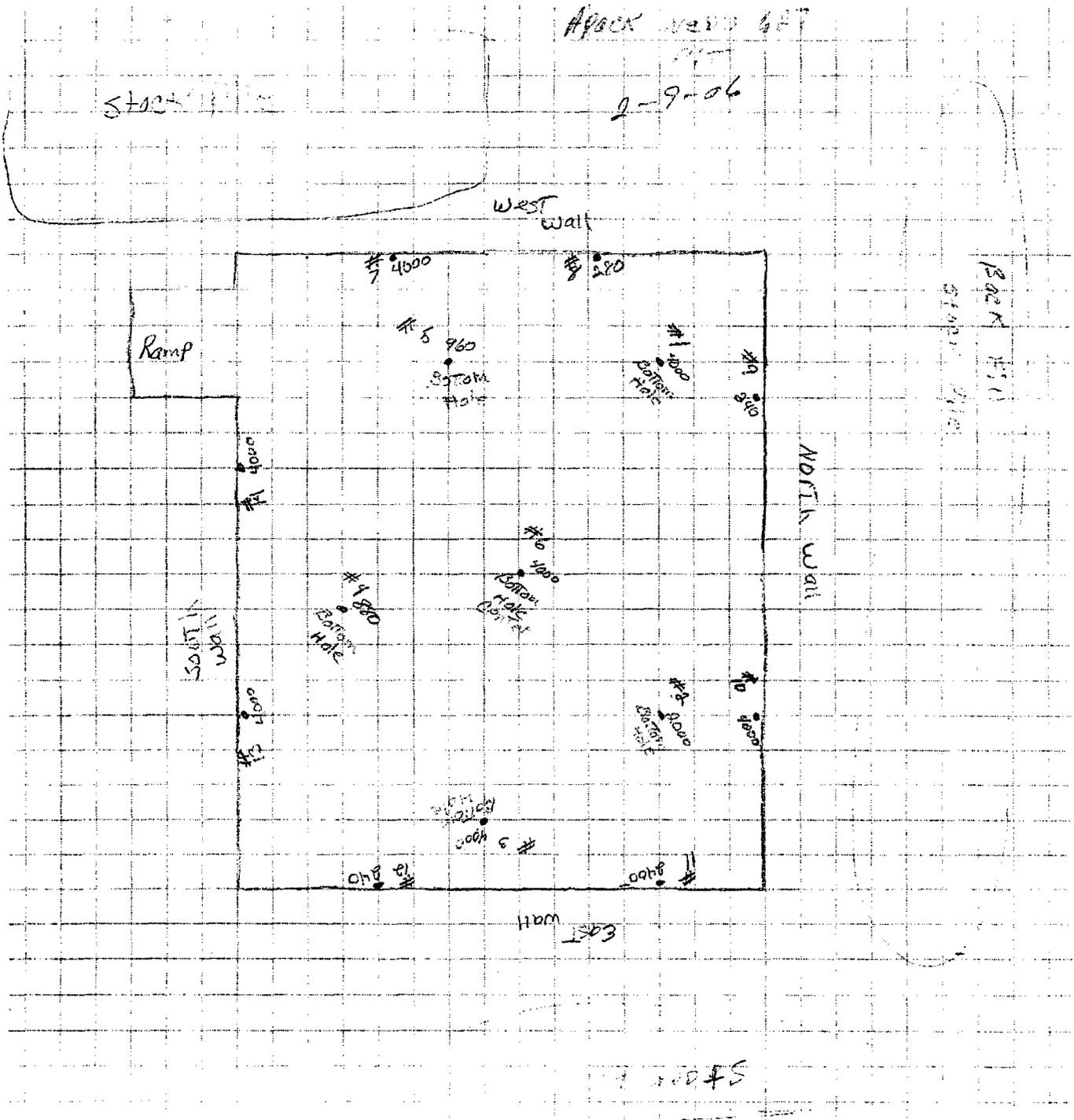
NEDU No. 627
APT
~~30-025-34887~~
30-025-370290000

RP# 1357



ENVIRONMENTAL PLUS, INC. *WALTER BLAZZ*
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

P.O. Box 1558 ... 2100 AVE. O ... EUNICE, NEW MEXICO 88231
TELEPHONE 505-394-3481 ... FAX 505-394-2601



11-27-2006

N

Apache - NEDU 627

- 240002

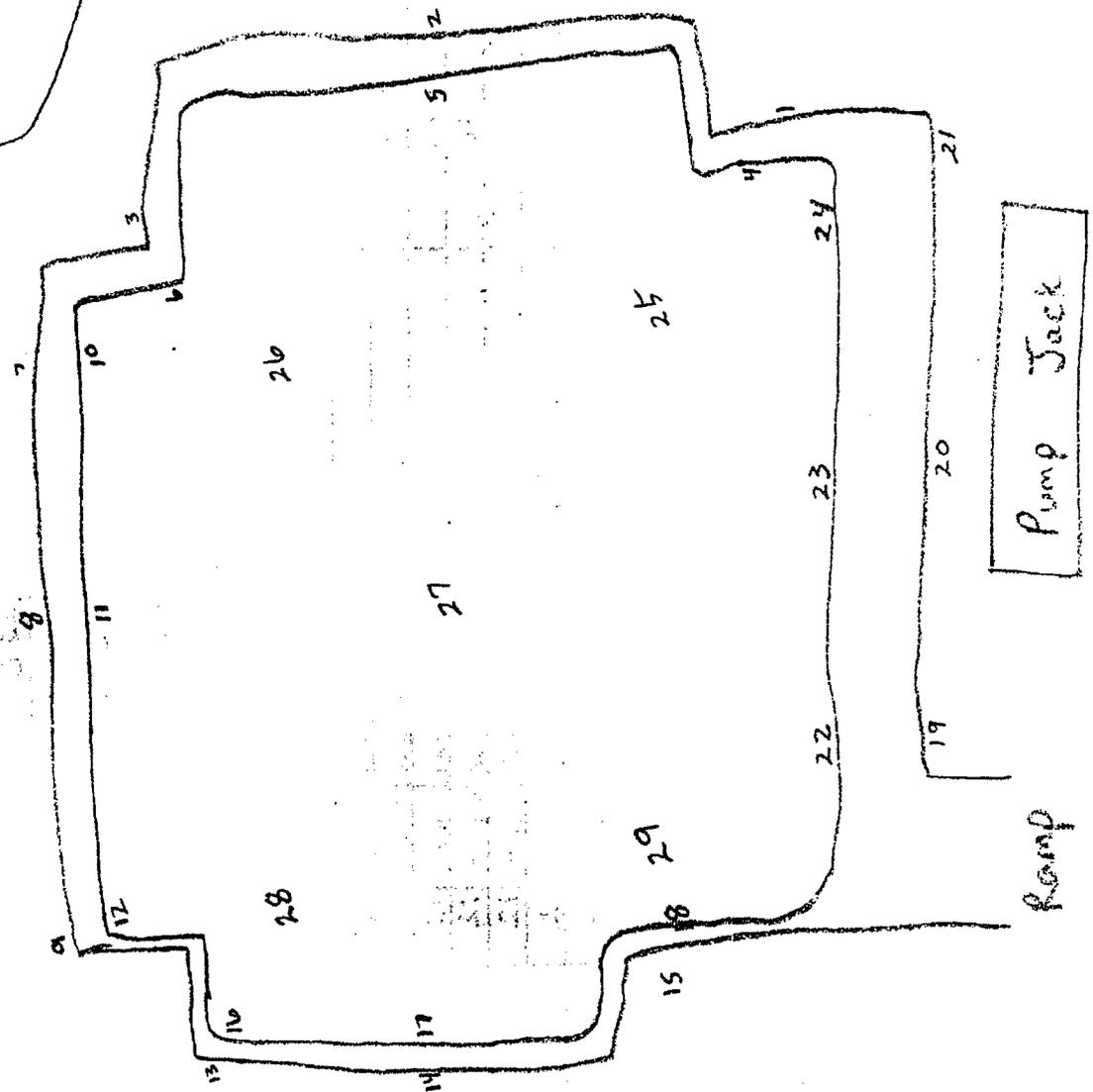
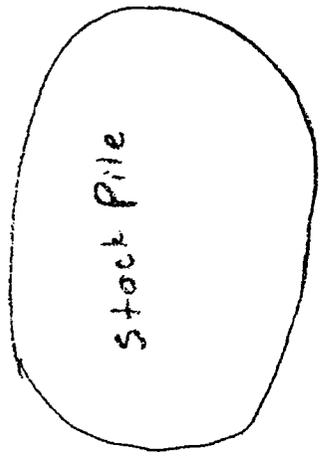


TABLE 2
Summary of Water Sample Laboratory Analytical Results
Apache Corporation
NEDU 627 Pit (EPI Ref.# 240002)

Sample I.D.	Date	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)	Cl (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
W-18'	07-Nov-06	40,975	3,206	972	465	183,200	110	69,978	2,895	0	134	6.48	212,090
C-22'	07-Nov-06	41,183	2,806	729	305	126,200	110	68,979	2,563	0	134	6.93	117,360
SE-22'	07-Nov-06	15,233	1,603	729	93	62,700	130	27,591	1,201	0	159	6.94	51,550
Chapparal Brine	07-Nov-06	124,790	1,202	2,430	1,135	278,400	110	195,939	9,273	0.0	134.0	6.61	333,420
NMWQCC Remedial Thresholds		100		10				50			100		250

Bolded values are in excess of NMOCED Remediation Threshold Goals
 -- = Not Analyzed
 BH = Soil samples collected from the bottom of the excavation; SW = Soil samples collected from the side walls of the excavation (E=East, W=West, N=North and S=South)

TABLE 2
Summary of Soil Sample Field Analyses and Laboratory Analytical Results
Apache Corporation
NEDU 627 Pit (EPI Ref.# 240002)

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analysis (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
BH-1	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
BH-2	--	Excavated	9-Feb-06	--	2,000	--	--	--	--	--	--	--	--	--
BH-3	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
BH-4	--	Excavated	9-Feb-06	--	880	--	--	--	--	--	--	--	--	--
BH-5	--	Excavated	9-Feb-06	--	960	--	--	--	--	--	--	--	--	--
BH-6 (center)	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
WSW-7	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
WSW-8	--	Excavated	9-Feb-06	--	280	--	--	--	--	--	--	--	--	--
NSW-9	--	Excavated	9-Feb-06	--	240	--	--	--	--	--	--	--	--	--
NSW-10	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
ESW-11	--	Excavated	9-Feb-06	--	2,400	--	--	--	--	--	--	--	--	--
ESW-12	--	Excavated	9-Feb-06	--	240	--	--	--	--	--	--	--	--	--
SSW-13	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
SSW-14	--	Excavated	9-Feb-06	--	4,000	--	--	--	--	--	--	--	--	--
NWSW-5	5	In situ	14-Feb-06	--	400	--	--	--	--	--	<10.0	<10.0	<20.0	64
NESW-5	5	In situ	14-Feb-06	--	4,000	--	--	--	--	--	<10.0	<10.0	<20.0	7,678

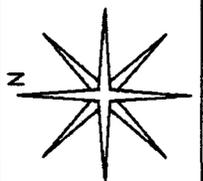
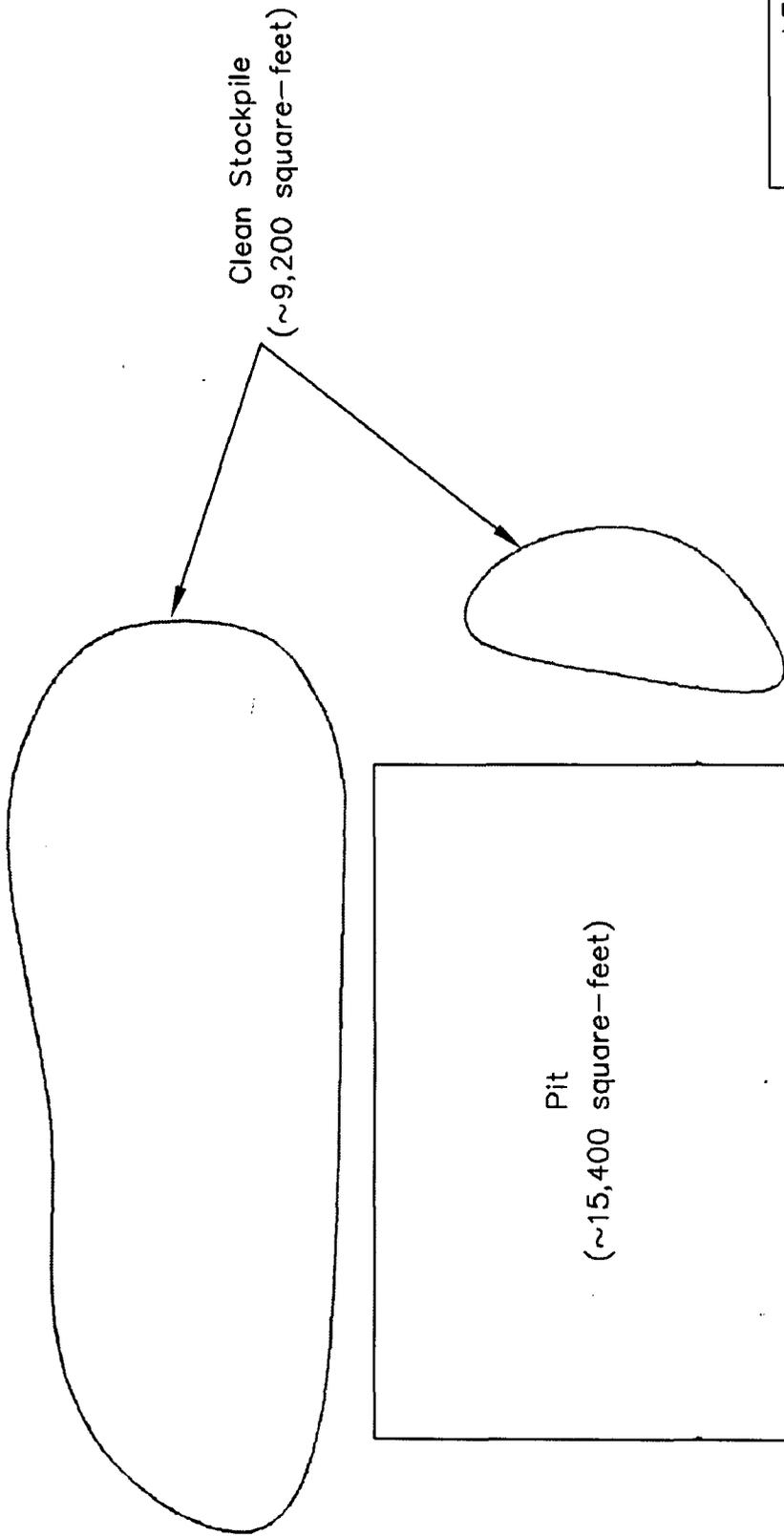
TABLE 2
Summary of Soil Sample Field Analyses and Laboratory Analytical Results
Apache Corporation
NEDU 627 Pit (EPI Ref.# 240002)

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
ENSW-5	5	In situ	14-Feb-06	--	640	--	--	--	--	--	--	--	--	192
ESSW-5	5	in-situ	14-Feb-06	--	400	--	--	--	--	--	--	--	--	16
SESW-5	5	In situ	14-Feb-06	--	4,000	--	--	--	--	--	--	--	--	17,195
SWSW-4	4	In situ	14-Feb-06	--	4,000	--	--	--	--	--	--	--	--	19,594
WSSW-4	4	in-situ	14-Feb-06	--	640	--	--	--	--	--	--	--	--	272
WNSW-4	4	In situ	14-Feb-06	--	960	--	--	--	--	--	<10.0	<10.0	<20.0	480
NWBH	14	Excavated	14-Feb-06	--	4,000	--	--	--	--	--	<10.0	<10.0	<20.0	13,996
NEBH	14	Excavated	14-Feb-06	--	4000	--	--	--	--	--	<10.0	<10.0	<20.0	2,175
SEBH	14	Excavated	14-Feb-06	--	1600	--	--	--	--	--	<10.0	<10.0	<20.0	9,757
SWBH	14	Excavated	14-Feb-06	--	4000	--	--	--	--	--	<10.0	<10.0	<20.0	688
West Trench-14	14	Excavated	14-Feb-06	--	4000	--	--	--	--	--	--	--	--	21,993
West Trench-19	19	In situ	14-Feb-06	--	4000	--	--	--	--	--	<10.0	<10.0	<20.0	8,157
West Trench-24	24	In situ	14-Feb-06	--	380	--	--	--	--	--	--	--	--	96
West Trench-29	29	In situ	14-Feb-06	--	380	--	--	--	--	--	<10.0	<10.0	<20.0	144
East Trench-14	14	Excavated	14-Feb-06	--	2800	--	--	--	--	--	--	--	--	1,727
East Trench-19	19	In situ	14-Feb-06	--	1280	--	--	--	--	--	<10.0	<10.0	<20.0	912

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Summary of Soil Sample Field Analyses and Laboratory Analytical Results
Apache Corporation
NEDU 627 Pit (EPI Ref.# 240002)

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
BH27-19'	19	In situ	22-Nov-06	--	--	--	--	--	--	--	--	--	--	11,676
BH28-19'	19	In situ	22-Nov-06	--	--	--	--	--	--	--	--	--	--	13,356
BH29-19'	19	In situ	22-Nov-06	--	--	--	--	--	--	--	--	--	--	160
NMOC Remedial Thresholds				100		10				50			100	250

Bolded values are in excess of NMOC Remediation Threshold Goals
-- = Not Analyzed
BH = Soil samples collected from the bottom of the excavation; SW = Soil samples collected from the side walls of the excavation (E=East, W=West, N=North and S=South)



REVISED:
70 SHEET
1 of 1

DWG By: Daniel Dominguez
February 2006

Lea County, New Mexico
SW 1/4 of the NW 1/4, Sec. 14, T21S, R37E
N 32° 28' 48.21" W 103° 08' 30.28"
Elevation: 3,416 feet amsl

Figure 3
Site Map
Apache Corporation
N.E.D.U. Pit #627



ARDINAL LABORATORIES

PHONE (325) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2325 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
HUNGRY HORSE ENVIRONMENTAL
ATTN: JERRY BRIAN
P.O. BOX 1058
HOBBS, NM 88241
FAX TO: (505) 391-4585

Receiving Date: 04/11/07
Reporting Date: 04/20/07
Project Owner: APACHE
Project Name: NEDU 627
Project Location: LEA CTY., NM

Sampling Date: 04/17/07
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM/AB

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		04/19/07	04/19/07	04/19/07	04/19/07	04/18/07	04/19/07
H12474-1	E. TRENCH 22' BGS	7223	2794	1230	122	47200	98
H12474-2	SE CORNER/PIT	1782	938	456	31.5	15210	60
Quality Control		NR	45.2	54.1	1.93	1381	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	80.4	108	96.5	97.7	NR
Relative Percent Difference		NR	5.8	3.6	3.7	1.1	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)	
ANALYSIS DATE:		04/18/07	04/19/07	04/19/07	04/19/07	04/18/07	04/18/07
H12474-1	E. TRENCH 22' BGS	18794	1286	0	117	7.04	36336
H12474-2	SE CORNER/PIT	5338	536	0	73.2	7.47	11210
Quality Control		490	23.9	NR	964	6.98	NR
True Value QC		500	25.0	NR	1000	7.00	NR
% Recovery		98	95.7	NR	96.4	99.4	NR
Relative Percent Difference		2.0	14	NR	12.0	0.3	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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Jose S. Moreno
Chemist

04-20-07
Date

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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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: <u>HL</u>		P.O. #:	
Project Manager: <u>Tim Brian</u>		Company:	
Address: <u>Box 1018</u>		City:	
City: <u>Hobbs</u>		State: <u>NM</u> Zip: <u>88240</u>	
Phone #: <u>3-3386</u> Fax #: _____		Address:	
Project #: _____ Project Owner: <u>Apache</u>		City:	
Project Name: <u>WIDA 627</u>		State: _____ Zip: _____	
Project Location: <u>Lee K. Reno</u>		Phone #:	
Sampler Name: _____		Fax #:	
FOR LAB USE ONLY		MATRIX	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	
		# CONTAINERS	
412479-1 -2 SS CORNER / PIT	E. French 22/365 X 2 X	GROUNDWATER	<input checked="" type="checkbox"/>
		WASTEWATER	<input checked="" type="checkbox"/>
		SOIL	<input type="checkbox"/>
		OIL	<input type="checkbox"/>
		SLUDGE	<input type="checkbox"/>
		OTHER:	<input type="checkbox"/>
		ACID/BASE:	<input type="checkbox"/>
		ICE / COOL	<input type="checkbox"/>
		OTHER:	<input type="checkbox"/>
		DATE	TIME
4-17-01	2:00	2:30	1:00 PM

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Relinquished By: [Signature] Date: 4/17-01 Time: 3:30
 Received By: [Signature] Date: 4/17-01 Time: 3:30
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Delivered By: (Circle One) UPS Bus Other
 Sample Condition: Cool Intact Yes No Yes No
 CHECKED BY: [Signature]
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

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



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

ANALYTICAL RESULTS FOR
 HUNGRY HORSE
 ATTN: JERRY BRIAN
 P.O. BOX 1058
 HOBBS, NM 88241
 FAX TO: (505) 391-4585

Receiving Date: 03/16/07
 Reporting Date: 03/23/07
 Project Owner: APACHE
 Project Name: NEDU 627
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/07
 Sample Type: WATER
 Sample Condition: COOL & INTACT
 Sample Received By: NF
 Analyzed By: HM

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
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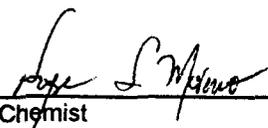
ANALYSIS DATE:	03/23/07	03/23/07	03/23/07	03/23/07	03/20/07	03/23/07
H12345-1 INJECTION WELL	7276	2295	222	199	39000	372
H12345-2 WELL-HEAD	9344	2462	484	220	48600	280
Quality Control	NR	50.6	52.4	1.97	1378	NR
True Value QC	NR	50.0	50.0	2.00	1413	NR
% Recovery	NR	101	105	98.5	99.1	NR
Relative Percent Difference	NR	2.8	0.0	3.6	0.3	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
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ANALYSIS DATE:	03/21/07	03/21/07	03/23/07	03/23/07	03/20/07	03/21/07
H12345-1 INJECTION WELL	13696	2939	0.0	454	7.94	29764
H12345-2 WELL-HEAD	17794	3262	0	342	8.07	36048
Quality Control	500	25.0	NR	854	6.94	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	100	NR	85.4	99.1	NR
Relative Percent Difference	0.0	4.9	NR	9.5	0.3	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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 Chemist

03-23-07
 Date

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

ANALYTICAL RESULTS FOR
 HUNGRY HORSE
 ATTN: JERRY BRIAN
 P.O. BOX 1058
 HOBBS, NM 88241
 FAX TO: (505) 391-4585

Receiving Date: 02/27/07
 Reporting Date: 02/28/07
 Project Owner: APACHE
 Project Name: NEDU #627
 Project Location: LEA CTY., NM

Sampling Date: 02/27/07
 Sample Type: GROUNDWATER
 Sample Condition: COOL & INTACT
 Sample Received By: NF
 Analyzed By: AB

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		02/27/07	02/27/07	02/27/07	02/27/07	02/27/07	02/27/07
H12252-1	PIT WATER	8373	2428	1755	67.5	53300	96
Quality Control		NR	53.2	49.2	1.75	1380	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	106	98.4	87.5	97.7	NR
Relative Percent Difference		NR	0.0	4.8	11.0	0.2	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)	
ANALYSIS DATE:	02/27/07	02/27/07	02/27/07	02/27/07	02/27/07	02/28/07	
H12252-1	PIT WATER	21393	1299	0	117	6.98	40592
Quality Control	490	28.2	NR	903	6.91	NR	
True Value QC	500	25.0	NR	1000	7.00	NR	
% Recovery	98	113	NR	90.3	98.7	NR	
Relative Percent Difference	0.0	18	NR	1.3	0.0	NR	

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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Jupe S. Moreno
 Chemist

02-28-07
 Date

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 client for 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 thirty (30) days after completion of the applicable services. 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.



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ANALYTICAL RESULTS FOR
 HUNGRY HORSE
 ATTN: JERRY BRIAN
 P.O. BOX 1058
 HOBBS, NM 88241
 FAX TO: (505)-391-4585

Source

Receiving Date: 11/28/06
 Reporting Date: 12/07/06
 Project Owner: APACHE
 Project Name: NM STATE "S" #42
 Project Location: UNIT 0, SEC. 34 T21S-R37E

Sampling Date: 11/28/06
 Sample Type: GROUNDWATER
 Sample Condition: COOL & INTACT
 Sample Received By: HM
 Analyzed By: HM/AB

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		12/06/06	12/06/06	12/06/06	12/06/06	11/29/06	11/30/06
H11850-1	P&S BRINE SALES	124714	2400	2570	1120	74200	288
Quality Control		NR	48.1	48.6	2.77	1304	NR
True Value QC		NR	50.0	50.0	3.00	1413	NR
% Recovery		NR	96	97	92.0	92	NR
Relative Percent Difference		NR	0.0	0.0	8.3	1.0	NR
METHODS:		SM3500-Ca-D		3500-Mg E	8049	120.1	310.1

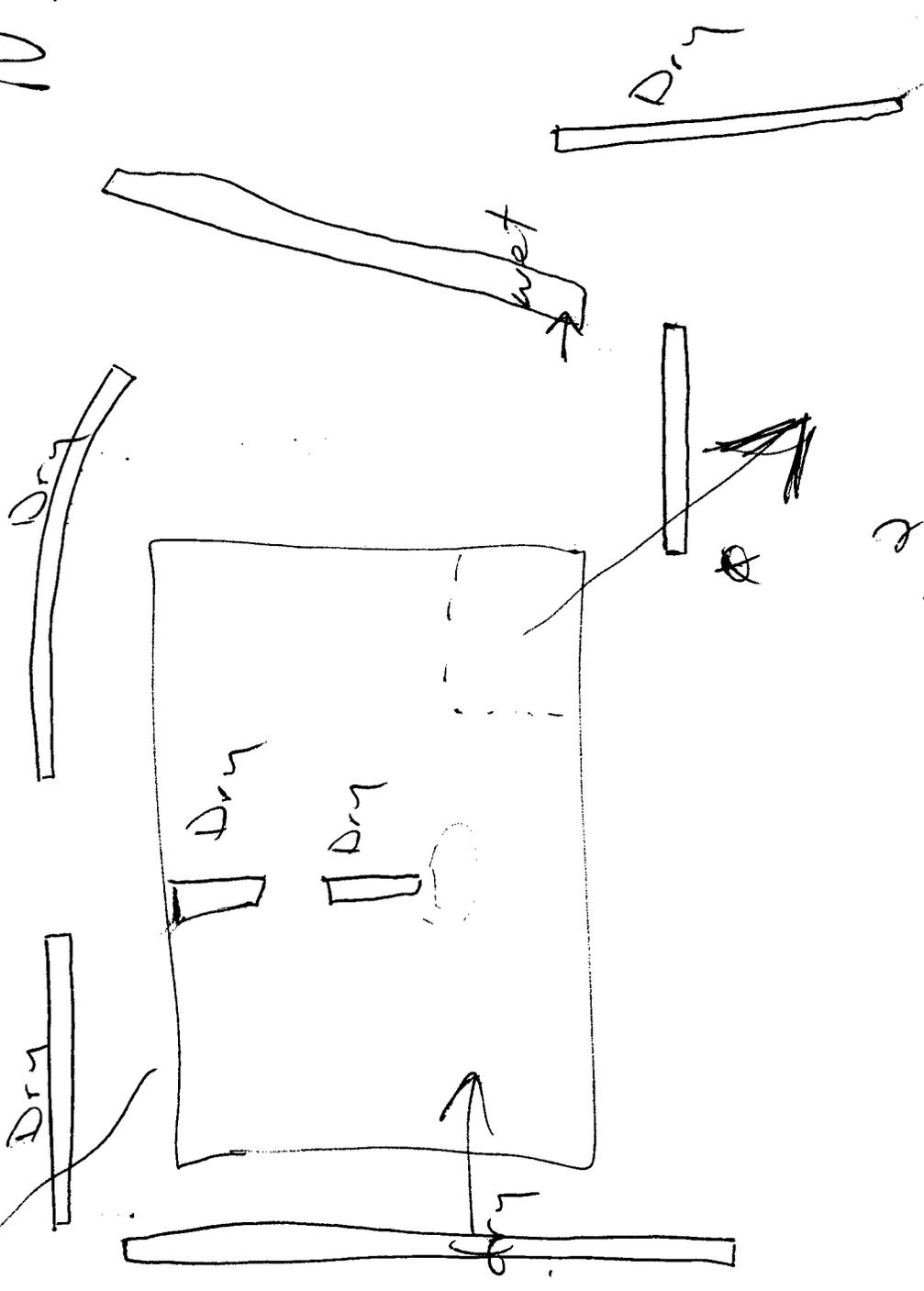
		Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		12/04/06	12/05/06	11/30/06	11/30/06	11/29/06	11/29/2006
H11850-1	P&S BRINE SALES	201000	5510	0	351	6.62	325588
Quality Control		510	17.9	NR	952	7.00	NR
True Value QC		500	20.0	NR	1000	7.00	NR
% Recovery		102.0	90	NR	95.2	100	NR
Relative Percent Difference		6.1	12	NR	3.1	0	NR
METHODS:		SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

Jerry Brian
 Chemist

12-07-06
 Date

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N ↑



200'
Dry
140' sect
Clay

BH