3R - 186

GENERAL CORRESPONDENCE

YEAR(S):

2003 - 1997

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

October 20, 2003

Mr. Scott T. Pope
El Paso Field Services
614 Reilly Ave.
Farmington, New Mexico 87401

RE: CASE #3R-186
HAMMOND #41A WELL SITE
SAN JUAN COUNTY, NEW MEXICO

Dear Mr. Pope:

The New Mexico Oil Conservation Division (OCD) has reviewed El Paso Field Services (EPFS) September 2, 2003 "CLOSURE REQUEST FOR THE HAMMOND #41A". This document contains the results of EPFS's 2003 monitoring and remediation of contaminated ground water related to the closure of an unlined dehydration pit at the Hammond #41A well site in Unit O, Section 25, Township 27 North, Range 8 West, San Juan County, New Mexico. The document also requests final closure of the site based on remediation and monitoring actions taken to date.

A review of data in the above-referenced report shows that xylenes are present in monitor well MW-4 at concentrations in excess of the New Mexico Water Quality Control Commission (WQCC) ground water standard. Therefore, the OCD cannot approve the closure request for this site. The OCD requires that EPFS continue to monitor ground water quality at the site in accordance with their previously approved ground water remediation plan. The OCD will reconsider closure approval of the site when EPFS can provide the OCD with information showing that ground water quality in all site monitoring wells is below WQCC standards for a minimum of 4 consecutive quarters

If you have any questions, please call me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office

elpaso Field Services

Certified Mail: #7002 0510 0000 0307 2522

September 2, 2003

Mr. William C. Olson
New Mexico Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87504

RECEIVED
SEP 0 8 2003
Environmental Bureau
Oil Conservation Division

RE: Closure Request for the Hammond #41A

Dear Mr. Olson:

El Paso Field Services (EPFS) hereby requests written approval of the closure of the Hammond # 41 A. The attached data supporting final closure of the above reference site includes: the most recent down gradient temporary monitoring well installation drilling log, installation diagram, field development form, field sampling form, final closure sample results and site location map. The monitoring well was installed approximately 45 feet down gradient of the former earthen pit as requested in the March 28, 2003 letter from the OCD to EPFS, RE: "D Loop Line Drip Site (Case# 3R166) Hammond # 41 (Case# 3R186) San Juan County, New Mexico", which also denied the request for closure. As you can see from the enclosed data from the down gradient monitoring well, Benzene, Toluene, Ethyl Benzene, and total Xylenes are at or below New Mexico Water Quality Control Commission Standards. Documentation supporting previous investigation, remediation and monitoring performed at the site have been submitted in earlier Annual Reports and closure requests.

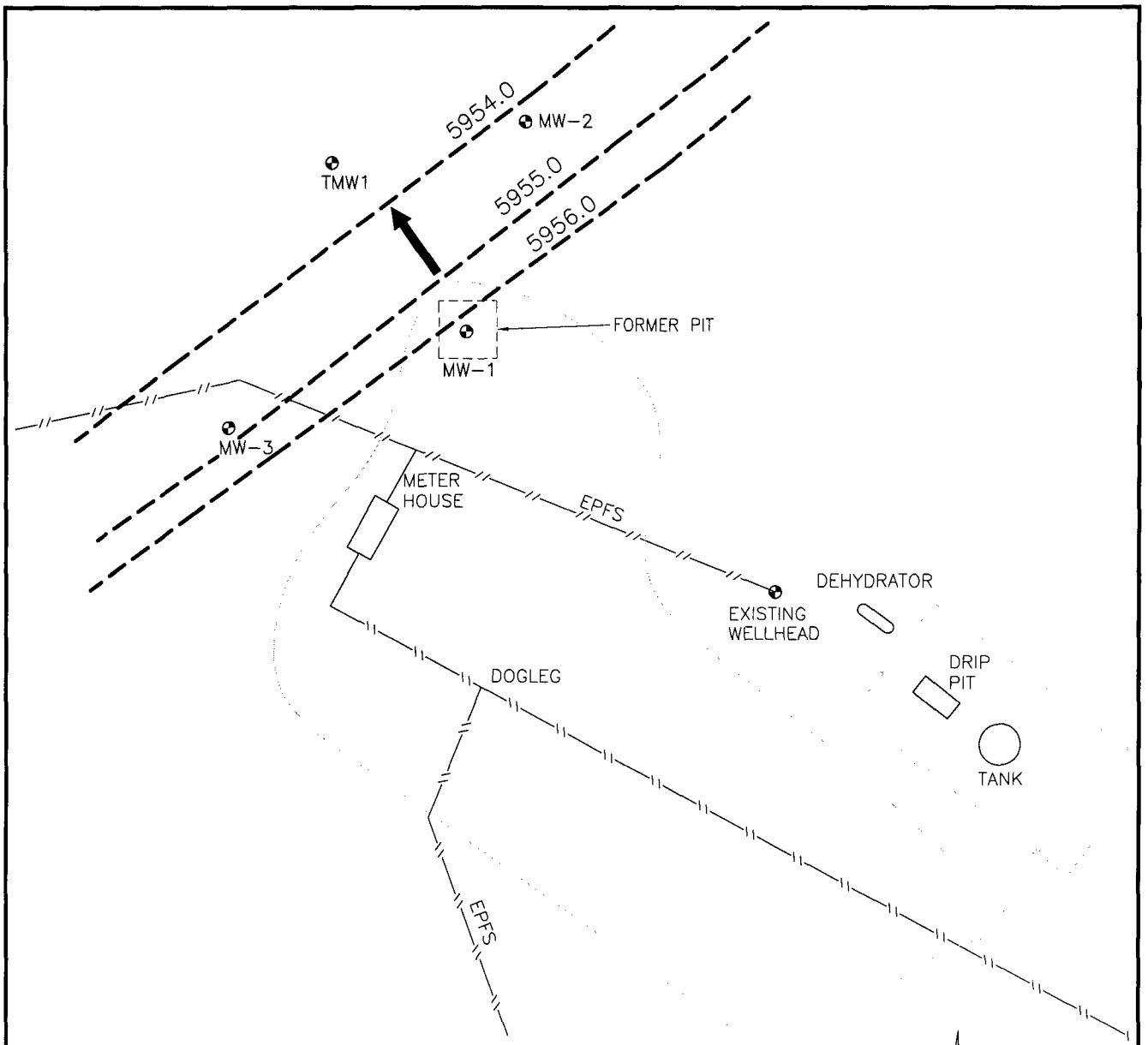
Based on the enclosed data, EPFS requests written approval of closure of the Hammond # 41 A. If you have any questions concerning the enclosed closure request or require additional information please call me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.
Senior Environmental Scientist

Attachments: as stated

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7002 0510 0000 0307 2515**
Mr. Bill Liesse, BLM – w / enclosures (federal sites only), **Certified Mail # 7002 0510 0000 0307 2508**



LEGEND

MW-1	Approximate Monitoring Well Location and Number
	Road
	Fence Line
	Pipe Line
6566.0	Potentiometric Surface (Assumed Where Dashed)
	Direction of Groundwater Flow

hammond41a_8-03.dwg

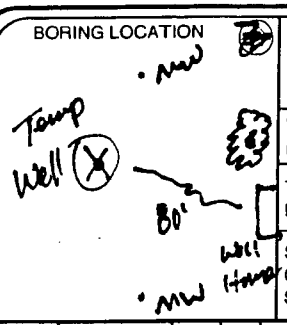
HAMMOND 41 A, METER 89894
AUGUST, 2003

GROUNDWATER SITES
EL PASO FIELD SERVICES

FIGURE 1

MONITORING WELL LOG FORM

BORING LOCATION



Project: Hammond Project No: Temp Well

Date Drilled: 8/6/03 Date Completed: 8/6/03

Logged By: L. Benesky

Water Elevation (ft.): _____

Date Measured: _____

Total Depth (ft.): 27.9

Diameter (in.): 2"

Boring ID: TmW1

Northing: _____ Easting: _____

Ground Surface Elevation (ft.): _____

Measuring Point (MP) Elevation (ft.): _____

MP is Top of PVC Casing Datum: NGVD (1929)

Drilling Contractor: Enviroteck

Drilling Method: HSA

Screen: Diameter 2" Depth _____ Slot Size 0.10

Casing: Diameter 2" Length _____ Type _____

Sand _____ Bentonite Seal _____ Cement Grout Seal _____

DEPTH (FEET)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX. PID READING (ppm)	BLOWS (6 IN.)	SAMPLE TYPE*	SAMPLE RECOVERY	USCS/ASTM CLASSIFICATION	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (USCS name; color; size and angularity of each component or plasticity; density; moisture content; additional facts)	ELEVATION (FEET)
0										0-5 Sandy Silt light brown	
5							C				
							C			5-10 SAND w/ little Silt light brown	
10										SAND w/ fine gravels	
							c			10-15 Light brown	
15										17' ground water, SAND	
▼							C			15-20 SAND w/ 50% Gravel Grey	
20											
							c			20-25 SAND w/ 50-60% Gravel Grey	
25										25-27 SANDY Clay Grey	
TD 30							c			Well set at 27.9 bgs	

PROJECT NO. _____

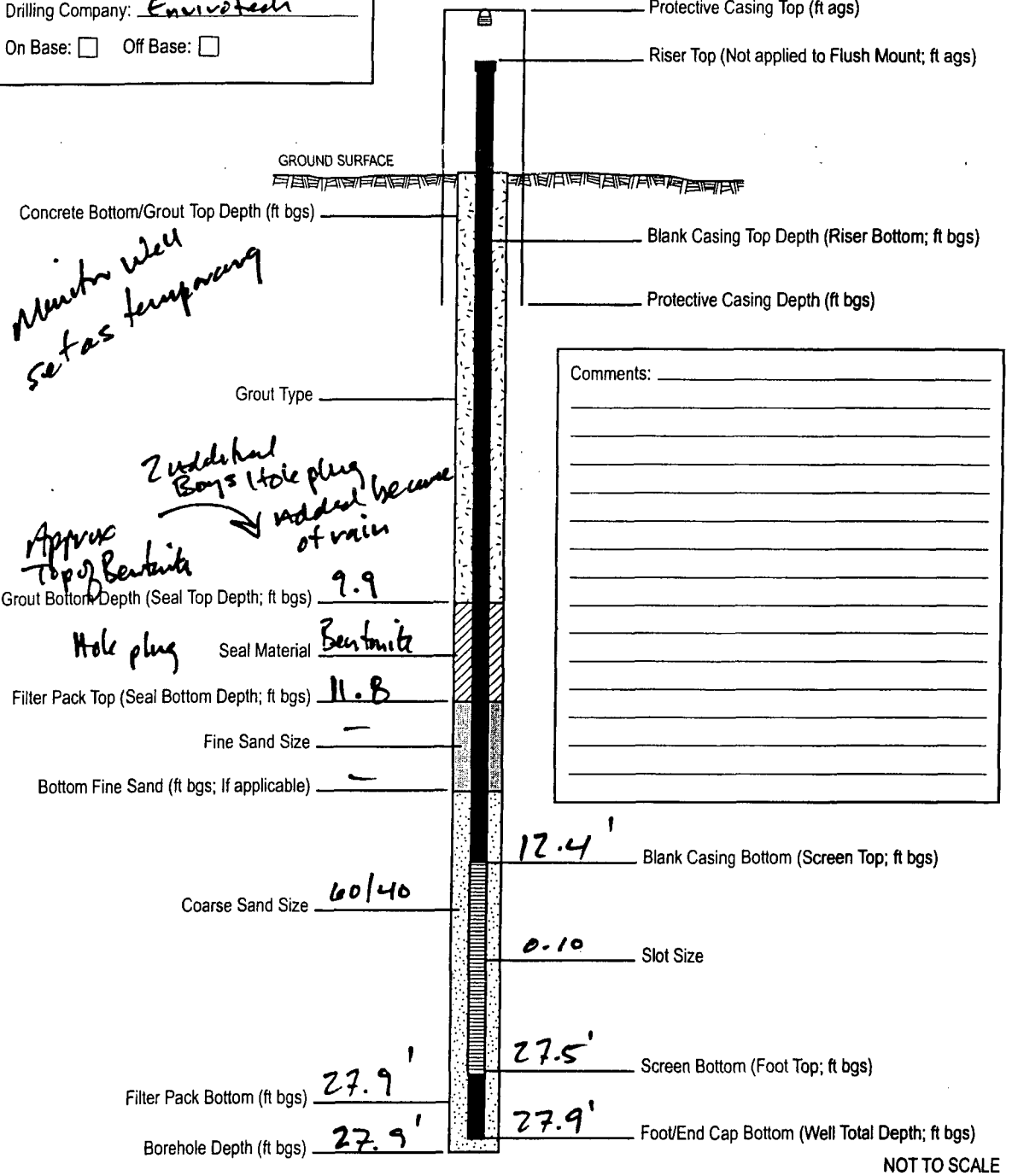
*C California Split Spoon Sampler (2.5" I.D.)
S Standard penetration test sampler
c Cuttings
▼ Elevation of ground water

MONITORING WELL COMPLETION FORM

Project No: Hammond

Drilling Company: Enviroteck

On Base: ☐ Off Base: ☐



NOT TO SCALE

PROJECT NO. _____

Loc ID/Well ID Temp Well #1

Geologist L. Beard

Date Construction Started Aug 6, 2003

Date Construction Completed Aug 6, 2003

LOC Type (i.e. Monitoring Well) Monitor Well

Riser Material/Diameter _____ / _____

Blank Casing Material/Diameter PVC / 2"

Screen Material/Diameter PVC / 2"

Protective Casing Type —

Borehole Diameter 7 inch

Above Ground Completion ☐ Flush Mount ☐ Temp Well

USCS Classification of Screened Interval _____

WELL DEVELOPMENT AND SAMPLING LOG

Project No: 30001.0 Project Name: STB Groundwater Client: MWH

Location: Hammond 4 Well No: mw-4 Development ☒ Sampling ☐

Project Manager MJN Date 8/11/03 Start Time 1040 Weather Sunny 80s

Depth to Water 17.22 Depth to Product _____ Product Thickness _____ Measuring Point TOC

Water Column Height 6.88 Well Dia. 2"

Sampling Method: Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other ☐

Bottom Valve Bailer ☒ Double Check Valve Bailer ☐ Stainless-Steel Kemmerer ☐

Criteria: 3 to 5 Casing Volumes of Water Removal ☒ Sabilization of Indicator Parameters ☒ Other ~~as bail dry~~

Gal/ft x ft of water	Water Volume In Well		Gal/oz to be removed
	Gallons	Ounces	
6.88 x .16	.88 x 3		3.30

Time (military)	pH	SC (umhos/cm)	Temp (°C)	Eh-ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal.)	Comments/ Flow rate
1104	706	2610	248				0.25	Very Silty
1116	739	2240	205				3	
1125	742	2150	197				5	V fine sand in bucket
1137	763	2360	20				10	
1155	743	2180	192				15	V silty/Sandy
1158		DTW	17.85	BTOC				

Final:

Time	pH	SC	Temp	Eh-ORP	D.O.	Turbidity	Ferrous Iron	Vol Evac.	Comments/Flow rate
1155	743	2180	192					15	

COMMENTS: Well did not clean up produced V fine Sand and silt. Could not bail down well: good produce

INSTRUMENTATION: pH Meter ☒ _____ Temperature Meter ☒ _____

DO Monitor ☐ _____ Other ☐ _____

Conductivity Meter ☒ _____

Water Disposal Kutz

Sample ID N2 Sample Time _____ BTEX ☐ VOCs ☐ Alkilinity ☐

TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Ammonia ☐ TKN ☐ NM WQCC Metals ☐

Total Phosphorus ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐

MS/MSD _____ BD _____ BD Name/Time _____ TB _____

WELL DEVELOPMENT AND SAMPLING LOG

Project No: _____ Project Name: SJB Groundwater Client: MWH

Location: Hammond 4½ Well No: MW-4 Development ☐ Sampling ☒

Project Manager MJN Date 8.13.03 Start Time 0936 Weather 80s

Depth to Water 17.22 Depth to Product — Product Thickness — Measuring Point TOC

Water Column Height 6.88 Well Dia. 2"

Sampling Method: Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other ☐

Bottom Valve Bailer ☒ Double Check Valve Bailer ☐ Stainless-Steel Kemmerer ☐

Criteria: 3 to 5 Casing Volumes of Water Removal ☒ Sabilization of Indicator Parameters ☒ Other _____

Gal/ft x ft of water	Water Volume In Well		Gal/oz to be removed
	Gallons	Ounces	
6.88 x .16	1.1 x 3		3.3

Time (military)	pH	SC (umhos/cm)	Temp (°C)	Eh-ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal.)	Comments/ Flow rate
0941	763	2530	20				.25	clear
	720	2430	191				.5	Silty Sheen
	730	2060	187				.75	" "
	729	2010	181				1	" "
	739	2230	180				2	" "
	743	1940	182				3	Silty No Sheen
1013	744	1930	181				4	" "

Final:

Time	pH	SC	Temp	Eh-ORP	D.O.	Turbidity	Ferrous Iron	Vol Evac.	Comments/Flow rate
1013	744	1930	18'					4	

COMMENTS: Makes good water

INSTRUMENTATION: pH Meter ☒ _____ Temperature Meter ☒ _____

DO Monitor ☐ _____ Other ☐ _____

Conductivity Meter ☒ _____

Water Disposal _____

Sample ID Hammond 4½ MW-4 Sample Time 1020 BTEX ☒ VOCs ☐ Alkilinity ☐

TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Ammonia ☐ TKN ☐ NM WQCC Metals ☐

Total Phosphorus ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐

MS/MSD _____ BD _____ BD Name/Time _____ TB 130803TB01

DATA VALIDATION WORKSHEET

Analytical Method/Analytes: SW-846 8021B (BTEX) **Sample Collection Date(s):** 08/13/03

Laboratory: Accutest **MWH Job Number:** EPC-SJRB (Groundwater)

Batch Identification: T5132 **Matrix:** Water

MS/MSD Parent(s)[a]: T5132-01 **Field Replicate Parent(s):** None

Validation Complete: *Brian Buttars - 08/25/03*

(Date/Signature)

Foot Notes	Site ID	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
2,3,4	Charlie Pah	TMW	T5132-01	N		
1	Hammond 44A	MW-4	T5132-02	Y		Benzene @ 7.3 µg/l Toluene @ 128 µg/l Ethylbenzene @ 44.8 µg/l Xylenes (total) @ 625 µg/l o-Xylene @ 155 µg/l m,p-Xylene @ 470 µg/l
None	Trip Blank	130803TB01	T5132-03	N		

DATA VALIDATION WORKSHEET
(Page 2 of 2)

Analytical Method:	SW-846 8021B (BTEX)	**MWH Job Number:**	EPC-SJRB (Groundwater)
Laboratory:	Accutest	**Batch Identification:**	T5132

Validation Criteria								
Sample ID	**Charlie Pah TMW**	**Hammond 44A MW-4**	**130803TB 01**					
Lab ID	**T5132-01**	**T5132-02**	**T5132-03**					
Holding Time	A	A	A					
Analyte List	A	A	A					
Reporting Limits	A	A	A					
Trip Blank	A	A	A					
Equipment Rinseate Blanks	N/A	N/A	N/A					
Field Duplicate/Replicate	N/A	N/A	N/A					
Surrogate Spike Recovery	A	A[1]	A					
Initial Calibration	N	N	N					
Initial Calibration Verification (ICV)	N	N	N					
Continuing Calibration Verification (CCV)	N	N	N					
Laboratory Control Sample (LCS)	A	A	A					
Laboratory Control Sample Duplicate (LCSD)	N	N	N					
Method Blank	A	A	A					
Matrix Spike/Matrix Spike Dup. (MS/MSD)	A[2,3,4]	N/A	N/A					
Retention Time Window	N	N	N					
Injection Time(s)	N	N	N					
Hardcopy vs. Chain-of-Custody	A	A	A					
EDD vs. Hardcopy	N	N	N					
EDD vs. Chain of Custody	N	N	N					

(a) List QC batch identification if different than Batch ID
A indicates validation criteria were met
A/L indicates validation criteria met based upon Laboratory's QC Summary Form
X indicates validation criteria were not met
N indicates data review were not a project specific requirement
N/A indicates criteria are not applicable for the specified analytical method or sample
N/R indicates data not available for review

NOTES:

1) Surrogate percent recovery outside acceptance criteria for aaa-Trifluorotoluene @ 125% (71-121). Only one surrogate outside acceptance criteria, no data qualified.
2) Matrix spike surrogate percent recoveries outside acceptance criteria for aaa-Trifluorotoluene @ 141% (71-121). Only one surrogate outside acceptance criteria, data quality not affected.
3) Matrix spike percent recovery for Benzene outside acceptance criteria @ 146% (64-124), indicating a possible high bias. Analyte not detected in parent sample, no data qualified.
4) Matrix spike/matrix spike duplicate (MS/MSD) relative percent difference (RPD) outside acceptance criterion @ 27% (16). Analyte not detected in parent sample, no data qualified.

Gulf Coast
ACCUTEST.
Laboratories

08/27/03

Technical Report for

Montgomery Watson

EPFS San Juan Basin Groundwater Site

Accutest Job Number: T5132

Report to:

scott.pope@elpaso.com

Total number of pages in report: 9

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Ron Martino
Laboratory Manager

Accutest Laboratories

Sample Summary

Montgomery Watson

Job No: T5132

EPFS San Juan Basin Groundwater Site

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
~~T5132-1~~	~~08/13/03~~	~~08:40~~	~~MN~~	~~08/14/03~~	~~AQ~~	~~Ground Water~~	~~CHARLIE PAH4 TMW~~
T5132-2	08/13/03	10:20	MN	08/14/03	AQ	Ground Water	HAMMOND 44A TMW-1
T5132-3	08/13/03	07:00	MN	08/14/03	AQ	Ground Water	130803TB01

Accutest Laboratories

Report of Analysis

Client Sample ID:	CHARLIE PAH4 TMW		
Lab Sample ID:	T5132-1	Date Sampled:	08/13/03
Matrix:	AQ - Ground Water	Date Received:	08/14/03
Method:	SW846 8021B	Percent Solids:	n/a
Project:	EPFS San Juan Basin Groundwater Site		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK005653.D	1	08/22/03	BC	n/a	n/a	GKK308
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		64-121%
98-08-8	aaa-Trifluorotoluene	102%		71-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HAMMOND 44A TMW-1		
Lab Sample ID:	T5132-2	Date Sampled:	08/13/03
Matrix:	AQ - Ground Water	Date Received:	08/14/03
Method:	SW846 8021B	Percent Solids:	n/a
Project:	EPFS San Juan Basin Groundwater Site		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK005650.D	1	08/22/03	BC	n/a	n/a	GKK302
Run #2	KK005651.D	20	08/22/03	BC	n/a	n/a	GKK302

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	7.3	1.0	ug/l	
108-88-3	Toluene	128 [a]	20	ug/l	
100-41-4	Ethylbenzene	44.8	1.0	ug/l	
1330-20-7	Xylenes (total)	625 [a]	60	ug/l	
95-47-6	o-Xylene	155 [a]	20	ug/l	
	m,p-Xylene	470 [a]	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%	98%	64-121%
98-08-8	aaa-Trifluorotoluene	125%	100%	71-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	130803TB01		
Lab Sample ID:	T5132-3	Date Sampled:	08/13/03
Matrix:	AQ - Ground Water	Date Received:	08/14/03
Method:	SW846 8021B	Percent Solids:	n/a
Project:	EPFS San Juan Basin Groundwater Site		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK005646.D	1	08/22/03	BC	n/a	n/a	GKK302
Run #2	KK005652.D	1	08/22/03	BC	n/a	n/a	GKK302

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	93%	64-121%
98-08-8	aaa-Trifluorotoluene	101%	102%	71-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Blank Spike Summary

Job Number: T5132
Account: MWHSLCUT Montgomery Watson
Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK302-BS	KK005644.D	1	08/22/03	BC	n/a	n/a	GKK302

The QC reported here applies to the following samples: Method: SW846 8021B

T5132-1, T5132-2, T5132-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.8	104	74-119
100-41-4	Ethylbenzene	20	20.7	104	82-115
108-88-3	Toluene	20	20.8	104	77-116
1330-20-7	Xylenes (total)	60	61.3	102	79-115
95-47-6	o-Xylene	20	20.3	102	78-114
	m,p-Xylene	40	41.0	103	79-116

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	64-121%
98-08-8	aaa-Trifluorotoluene	100%	71-121%

Method Blank Summary

Job Number: T5132
Account: MWHSLCUT Montgomery Watson
Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK302-MB	KK005645.D	1	08/22/03	BC	n/a	n/a	GKK302

The QC reported here applies to the following samples: Method: SW846 8021B

T5132-1, T5132-2, T5132-3

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	96%	64-121%
98-08-8	aaa-Trifluorotoluene	99%	71-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T5132
Account: MWHSLCUT Montgomery Watson
Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T5132-1MS	KK005648.D	1	08/22/03	BC	n/a	n/a	GKK302
T5132-1MSD	KK005649.D	1	08/22/03	BC	n/a	n/a	GKK302
T5132-1	KK005653.D	1	08/22/03	BC	n/a	n/a	GKK302

The QC reported here applies to the following samples: Method: SW846 8021B

T5132-1, T5132-2, T5132-3

CAS No.	Compound	T5132-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	29.2	146*	22.2	111	27*	64-124/16
100-41-4	Ethylbenzene	ND		20	21.7	109	21.9	110	1	64-123/14
108-88-3	Toluene	ND		20	20.3	102	21.5	108	6	64-120/13
1330-20-7	Xylenes (total)	ND		60	63.0	105	64.5	108	2	66-118/18
95-47-6	o-Xylene	ND		20	20.8	104	21.4	107	3	65-119/20
	m,p-Xylene	ND		40	42.3	106	43.1	108	2	66-120/14

CAS No.	Surrogate Recoveries	MS	MSD	T5132-1	Limits
460-00-4	4-Bromofluorobenzene	99%	101%	98%	64-121%
98-08-8	aaa-Trifluorotoluene	141%* [a]	103%	102%	71-121%

(a) *Outside control limits due to matrix interference.*

ACCUTEST Laboratories

CHAIN OF CUSTODY # 130803MN01

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking # 835603757103	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information

Company Name: MWH / EL PASO
Address: 1014 Reilly
City: Farmington State: NM Zip: 87401
Project Contact: Lynn Bensley E-mail:
Phone #: 505 599 2178
Sampler's Name: Martin Nee

Project Information

Project Name: San Juan Basin
Street: Groundwater
City: State:
Project #:
Fax #: 505 599 2119
Client Purchase Order #:

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	Requested Analysis: BTEX	LAB USE ONLY
1	Charlie Paw TMW		8-13-03	0840	MJN	WG	2	2								X	VREP
2	Hammond 41A MW-4		8-13-03	1020	MJN	WG	2	2								X	↓
3	130803TB01		8-13-03	0700	MJN	WQ	1	1								X	↓

Turnaround Time (Business Days)

- [x] 10 Day STANDARD
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Tier 1
- [ ] TRRP13
- [ ] EDD Format ______

Commercial "A" = Results Only

Comments / Remarks

T5132

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date Time	Received by	Relinquished by	Date Time	Received by
Relinquished by Sampler: 1 [signature]	8-13-03 1600	1	2	0900 8-14-03	2 [signature]
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☒ Cooler Temp. 4.8 °C

ACCUTEST.

SAMPLE RECEIPT LOG

JOB #: T5132 **DATE/TIME RECEIVED:** 8-14-03 0900

CLIENT: MWH **INITIALS:** EJ

Condition/Variance (Circle "Y" for yes and "N" for no. If "N" is circled, see variance for explanation):

1. [✓ Y] N Sample received in undamaged condition.
2. [✓ Y] N Samples received within temp. range.
3. [✓ Y] N Sample received with proper pH.
4. [✓ Y] N Sample received in proper containers.
5. [✓ Y] N Sample volume sufficient for analysis.
6. [✓ Y] N Sample received with chain of custody.
7. [✓ Y] N Chain of Custody matches sample IDs on containers.
8. [✓ Y] N Custody seal received intact and tamper evident on cooler.
9. Y [✓ NA] Custody seal received intact and tamper evident on bottles.

SAMPLE or FIELD ID	BOTTLE #	DATE SAMPLED	MATRIX	VOLUME	LOCATION	PRESERV.	PH
1	1-2	8-13-03	L	2x 40ml	VR	1,[✓ 2],3,4,5,6	U, <2, >12, [✓ NA]
2	1-2	↓	↓	2x 40ml	↓	1,[✓ 2],3,4,5,6	U, <2, >12, [✓ NA]
3	1	↓	↓	1x 40ml	↓	1,[✓ 2],3,4,5,6	U, <2, >12, [✓ NA]
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA

8-14-03 EJ

LOCATION: WI: Walk-In VR: Volatile Refrig. SUB: Subcontract EF: Encore Freezer

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: Other

[✓ pH of waters checked excluding volatiles]

pH of soils N/A

Comments:

Delivery method: Courier: FED-EX

Tracking#: SEE ATTACHED

COOLER TEMP: 4.8°C

COOLER TEMP:

COOLER TEMP:

COOLER TEMP:

Method of sample disposal: (circle one) Accutest disposal Hold Return to Client

Form: SM012

NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

March 28, 2003

Mr. Scott T. Pope
El Paso Field Services
614 Reilly Ave.
Farmington, New Mexico 87401

RE: D LOOP LINE DRIP SITE (CASE# 3R166)
HAMMOND #41A PIT SITE (CASE #3R186)
SAN JUAN COUNTY, NEW MEXICO

Dear Mr. Pope:

The New Mexico Oil Conservation Division (OCD) has reviewed El Paso Field Services (EPFS) November 27, 2003 "CLOSURE REQUEST FOR THE D LOOP LINE DRIP AND HAMMOND #41A". This document contains the results of EPFS's remediation and monitoring of contaminated ground water related to the closure of unlined oil and gas production pits at 2 sites in the San Juan Basin. The documents also requests closure of the sites based on the remediation and monitoring actions taken to date and permission to plug and abandon the site monitoring wells.

The OCD's review of the above referenced document is addressed below:

A. The final pit closure and ground water remediation activities at the site D Loop Line Drip pit site located in Unit I, Sec. 33, T28N, R08W are satisfactory and the above referenced request for this site is approved. Please be advised that OCD approval does not relieve EPFS of responsibility if remaining contaminants pose a future threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve EPFS of responsibility for compliance with any other federal, state or local laws and regulations.

B. A review of OCD's file for the Hammond #41 A site, located in Unit O, Sec. 25, T27N, R08W, shows that, on July 18, 2001, the OCD required that EPFS install additional ground water monitoring wells to monitor and determine the extent of ground water contamination pursuant to their previously approved ground water investigation plan. This requirement was based on the lack of ground water quality monitoring data downgradient and northwest of the former pit location. The OCD does not have any information to show that this work was completed. Therefore, the above-referenced request for this site is denied. The OCD will reconsider closure approval of the site when EPFS can provide the OCD with this information.

If you have any questions, please call me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Bill Liess, BLM Farmington District Office
Lynn Benally
Marc Greeley
OCD File (original)
Groundwater Pit File

elpaso Field Services

Certified Mail: #7001 1940 0002 1371 7676

February 28, 2003

RECEIVED

MAR 0 5 2003

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Mr. William C. Olson
New Mexico Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87504

RE: 2002 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual reports for the 30 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

EPFS has organized the 30 Annual Reports (Volumes 1, 2 and 3) by land type. Volume 1 contains Annual Reports for sites found on Federal land. Volume 2 contains Non Federal sites and Volume 3 contains sites on Navajo land. Of the 30 reports submitted, EPFS is requesting closure of three sites located on Navajo lands. Of the three Navajo sites submitted for closure OCD has closed the Charley Pah #4 and the John Charles #8. The Rementa et al #1 has not been closed by either agency and EPFS reiterates request for closure of this site. EPFS understands closure of groundwater sites on Navajo land falls under jurisdiction of the Navajo Nation Environmental Protection Agency and original documents have been submitted to them for review. Other Navajo sites are included in the report for your information.

Three additional sites were submitted for closure in 2002. EPFS recently has received closure on the W.D. Heath B-5. Closure approval is pending on the D Loop Line Drip and Hammond # 41A. All of these sites are included in the 2002 Annual Report.

If you have any questions concerning the enclosed reports, please call me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7001 1940 0002 1371 7669**
Mr. Bill Liesse, BLM – w / enclosures (federal sites only), **Certified Mail # 7001 1940 0002 1371 7652**

El Paso Field Services
614 Reilly Farmington, New Mexico 87401

El Paso Field Services

San Juan Basin Pit Program Groundwater Sites Project

2002 Annual Report Federal Sites (Volume 1)

March 2003

MWH
10619 South Jordan Gateway, Suite 100
Salt Lake City, Utah 84095

EPFS GROUNDWATER SITES
2002 ANNUAL GROUNDWATER REPORT

Hammond #41A
Meter Code: 89894

SITE DETAILS

LEGAL DESCRIPTION: **Twn:** 27N **Rng:** 8W **Sec:** 25 **Unit:** O

NMOCD Haz Ranking: 40 **Land Type:** Federal **Operator:** R&G Drilling Company

PREVIOUS ACTIVITIES

Site Assessment: 6/94	**Excavation:** 7/94	**Soil Boring:** 7/95
Monitor Well: 5/97	**Geoprobe:** 11/96	**Additional MWs:** 9/99
Downgradient MWs: 9/99	**Replace MW:** NA	**Quarterly Initiated:** 6/97
ORC Nutrient Injection: 7/98	**Re-Excavation:** 5/97	**PSH Removal Initiated:** NA
Annual Initiated: 9/99	**Quarterly Resumed:** NA	

SUMMARY OF 2002 ACTIVITIES

Site-Wide Activities: Closure criteria was achieved at this site during 2002 as detailed in the *Pit Closure Report-Hammond #41A,* submitted on November 27, 2002. Please refer to that report for all supporting documentation.

elpaso Field Services

Certified Mail: #7002 0860 0003 4742 7714

November 27, 2002

Mr. William C. Olson
New Mexico Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87504

RE: Closure Request for the D Loop Line Drip and Hammond # 41A

Dear Mr. Olson:

El Paso Field Services (EPFS) hereby requests written approval of the closure of the D Loop Line Drip and Hammond # 41A. The attached reports detail all applicable investigation, remediation and monitoring performed at the sites.

If you have any questions concerning the enclosed closure requests or require additional information please call me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.
Senior Environmental Scientist

Attachments: as stated

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7002 0860 0003 4742 7707**
Mr. Bill Liesse, BLM – w / enclosures (federal sites only), **Certified Mail # 7002 0860 0003 4742 7721**

El Paso Field Services
614 Reilly Farmington, New Mexico 87401

EL PASO ENERGY

FEB 2 2 2000

OIL CONSERVATION DIVISION

Certified Mail: #Z 213 707 662

February 17, 2000

Mr. William C. Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

RE: Corrected Request for Extension for 2000 Pit Project Annual Groundwater Report

Dear Mr. Olson:

Please except this request for extension with the dates corrected to reflect the current year.

The pit project annual groundwater report is due to you on March 1, 2000. Pursuant to our February 8, 2000 telephone conversation, El Paso Field Services (EPFS) hereby requests a one-month extension to the submittal date. EPFS will submit the pit project annual report to your office by April 3, 2000.

If you have any questions or require any additional information, please contact me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.
Environmental Scientist

xc: Mr. Denny Foust, NMOCD – Aztec

El Paso Energy Corporation 614 Reilly Avenue Farmington, New Mexico 87401 Phone (505) 325-2841 Fax (505) 599-2119

EL PASO
FIELD SERVICES

Certified Mail: #Z 211 324 121

March 31, 1999

Mr. William C. Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

RE: 1998 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 49 remaining groundwater impacted locations that were identified during our pit closure project of 1994 / 1995.

Of the 49 reports, EPFS hereby requests closure of 18 of these locations. The 18 sites EPFS is requesting closure on are presented in 4 separate binders entitled "Final Closure Report for Groundwater Sites with Four Consecutive Quarters Below Standards".

The Jaquez Com. C #1 and Jaquez Com. E #1 site is included in a separate report which is entitled "Jaquez Com. C #1 and Jaquez Com. E #1 Annual Report for Soil and Groundwater Remediation".

If you have any questions concerning the enclosed reports or closure requests, please call me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # Z 211 324 122**
Mr. Bill Liesse, BLM – w / enclosures; **Certified Mail # Z 211 324 123**
Ms. Charmaine Tso, Navajo EPA – w / enclosures: **Certified Mail # Z 211 324 120**

EL PASO
FIELD SERVICES

FEB 10 2000

Certified Mail: #Z 387 666 326

February 8, 1999

Mr. William C. Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

RE: 2000 Pit Project Annual Groundwater Report

Dear Mr. Olson:

The pit project annual groundwater report is due to you on March 1, 1999. Pursuant to our February 8, 1999 telephone conversation, El Paso Field Services (EPFS) hereby requests a one-month extension to the submittal date. EPFS will submit the pit project annual report to your office by April 3, 1999.

If you have any questions or require any additional information, please contact me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.
Environmental Scientist

xc: Mr. Denny Foust, NMOCD – Aztec

El Paso Field Services Company 614 Reilly Avenue Farmington, New Mexico 87401 Phone (505) 325-2841 Fax (505) 599-2235

EL PASO
FIELD SERVICES

Bill Olson
New Mexico Oil Conservation Commission
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Date: June 2, 1997

Subject: Semi-Annual El Paso Field Services Pit Project Groundwater Report

Mr. Olson,

El Paso Field Services (EPFS) has encountered groundwater at various locations while investigating and or remediating exempt hydrocarbon unlined pits. The enclosed list includes all locations which are in this category. Please find enclosed, the locations and status of each individual pit.

These pits are being remediated according to the "EPFS Remediation Plan for Groundwater Encountered During Pit Closure Activities" dated November 29,1995.

EPFS requests that future reports for this project be submitted on a yearly basis to begin December 1, 1997 which will include soil boring logs, monitoring well completion diagrams, analytical data, groundwater elevation data, any risk analysis and type of remediation method.

For questions regarding this report please contact Ricky Cosby at (505)599-2158.

Ricky D. Cosby
Compliance Specialist

cc: Denny Foust - Aztec District

Location/Line Name	LTR	Sec	TTN	RG	Monitor Well Status	Status	Depth to GW	Product Level
MCGRATH #1	F	07	30	11	+1	GW encountered during drilling activities, MW results below standards, Develop Closure Plan	17'	No
Mae Gail Com #1	E	24	29	11		PZ1 in center of pit below standards. All other samples below standards. Develop Closure Plan	0.5'-6'	No
NM COM G1	P	36	30	10		MW1 was removed during site re-excavation, PZ1 installed with samples below standards. Develop Closure Plan.	17'-18'	No
MARY ACKROYD #1	J	18	30	11		Geoprobe samples all below standards. Develop Closure Plan.	3'-6'	No
JACQUEZ #3	E	25	30	09	-1	MW1 removed during re-excavation. 3 piezos and 1 probehole around pit all below standards. Operator has placed a production tank over the pit location. Develop Closure Plan.	13'-15'	No
SALAZAR G 34-1	K	34	25	06	+1	MW1 results all below standards. Develop Closure Plan.	35'	No
ANDERSON GAS COM A#1 PC	C	28	29	10		PH4 in center of pit is below standards. All of PH's around pit below standards. Develop Closure Plan.	5'-9'	No
GALLEGOS CANYON UT 145 E	D	26	29	12		PZ1 in center of pit below standards.	6'-9'	No
JOHNSTON FEDERAL #3A	I	12	30	09	+1	Develop Closure Plan. 4 clean quarters.	67.5'	No
FLORANCE #1	J	08	30	11	+1	MW1 installed 05/07/97. Develop and sample MW1.	14'	No
DE-NA-HAZ-ZA #1	D	18	26	08	+1	MW1 installed 05/06/97. Develop and sample MW1.	14'	No
Ramenta Et Al #1	J	13	27	09	+1	MW1 installed 05/06/97. Develop and sample MW1.	5'-9'	No
HAMMOND 41 A	O	25	27	08	+1	MW1 installed 05/05/97. Develop and sample MW1.	15'-24'	No
VALDEZ GAS UNIT A #1E CH	G	24	29	11	-1, +1	MW1 installed 05/07/97. Develop and sample MW1.	11'-12'	No

Location/Line Name	LTR	Sec	TN	RG	Monitor Well Status	Status	Depth to GW	Product Level
GALLEGOS CANYON COM A142E	G	25	29	12	+1	MW1 Developed and sampled 03/10/97. Evaluate Data.	13'	No
GALLEGOS CANYON UT D#160	I	27	29	12	+1	MW1 Developed and sampled 03/10/97. Evaluate Data.	19.1'	No
HARRINGTON #1	M	31	27	07	+1	MW1 Developed and sampled 04/02/97. Evaluate Data.	13'	No
Turner A1 "PM" (Pit #2)	G	34	31	11	+1	MW1 Developed and sampled 03/12/97. Evaluate Data.	2.3'--2.5'	No
TURNER #1A (Pit #1)	K	34	31	11	+1	Same as Above	5'	No
SAN JUAN 28-6 UNIT #79 MV	M	11	27	06	+1	MW1 Developed and sampled 04/14/97. Evaluate Data.	30'	No
KNIGHT #1	A	05	30	13	+4	Installed Oxegenate Socks 11/25/96. Geoprobe 02/25/97. Evaluate Data.	22'-25'	No
Ohio C. Govt. #3	P	26	28	11		Install MW1 and sample quarterly.	6'-16'	No
NICKLES #1	K	11	31	13	+1	MW1 Developed and sampled 03/28/97. Evaluate Data.	12'-15'	No
BUD-DOS-PAH #1	M	19	26	08		Soil Boring 02/19/97. Operator has placed a compressor over excavated pit area. Evaluate Data.	13'	No
SANCHEZ GAS COM B#1	G	28	29	10	+1	MW1 Developed and sampled 03/11/97. Evaluate Data.	6'-9'	No
GE-ELE-GU-LITH-E #2	L	07	26	08		Soil Boring 02/20/97. Operator has placed a compressor over excavated pit area. Evaluate Data.	13'	No
JOHN CHARLES #8	B	13	27	09	+1	MW1 Developed and sampled 03/13/97. Evaluate Data.	19'	No
CANDADO 23 MV	B	09	26	07	+1	MW1 Developed and sampled 04/16/97. Evaluate Data.	6'-9'	No

Location/Line Name	LTR	Sec	TN	RG	Monitor Well Status	Status	Depth to GW	Product Level
GALLEGOS CANYON UNIT 188E	B	30	29	12	+ 1	MW1 Developed and sampled 04/03/97. Evaluate Data.	3'-5'	No
JOHNSON #1E	P	21	31	13	+ 1	MW1 Developed and sampled 03/28/97. Evaluate Data.	3'-9'	No
MILES FEDERAL #1E	N	05	26	07	+ 1	MW1 Developed and sampled 04/02/97. Evaluate Data.	13.5'-30'	No
TRUJILLO GAS COM A#1	C	28	29	10	+ 1	MW1 Developed and sampled 04/03/97. Evaluate Data.	3'-9'	No
ANDERSON GAS COM A#1 CH	C	28	29	10	+ 1	MW1 Developed and sampled 03/11/97. Evaluate Data.	5'-9'	No
TRUNK D LINE DRIP (LOOPD8)	F	20	28	08	+ 1	MW1 Developed and sampled 03/31/97. Evaluate Data.	10.8'-24'	No
K-31 LINE DRIP	N	16	25	06	+ 1	MW1 Developed and sampled 04/16/97. Evaluate Data.	18'-24'	No
K-17 LINE DRIP	C	26	27	08	+ 1	MW1 Developed and sampled 03/31/97. Evaluate Data.	17.8'-27'	No
TRUNK 2B DRIP X-1	J	01	27	11	+ 1	MW1 Developed and sampled 03/11/97. Evaluate Data.	6'-10'	No
Trujillo Gas Com #1 PC	M	21	29	10		Install MW1	4'	No
OHIO C GOVERNMENT #3 TD	P	26	28	11		Install MW1	6'-16'	No
LINDRITH B #24	N	09	24	03		Install MW1	21'-27'	No
K - 51 Line Drip	A	34	26	06		Install MW1	10'	No
Mesa CPD	C	04	29	14	+ 1	Install well points around pit and sample. MW1 needs 3 more clean quarters.	3'-6.5'	No
STANDARD OIL COM #1	N	36	29	09	+ 1	Install well points on four sides of pit to establish gradient.	20.89'	No
W.D. HEATH B#5	M	31	30	09	+ 1	Install well points on four sides of pit to establish gradient.	30'-36'	No
CANYON LARGO UNIT 304	C	11	24	06	+ 1	Install downgradient well points and sample.	17.5'-18'	No

Location/Line Name	LTR	Sec	TN	RG	Monitor Well Status	Status	Depth to GW	Product Level
K-27 LINE DRIP	E	04	25	06	+ 1	Establish gradient with well points.	40'	No
LAT 0-21 LINE DRIP	O	12	30	09	+ 1	Establish gradient with well points.	33'-36'	No
Trunk D loop Line Drip	I	33	28	08	+ 1	Establish gradient with well points.	33'-36'	No
Bisti Flare Pit	C	21	12	26		Establish GW gradient	15'	No
LAT L-40 LINE DRIP	H	13	28	04	+ 1	Install downgradient well points and sample.	40'	No
HAMNER #9	A	20	29	09	+ 1	Establish gradient with well points.	29'-31'	No
GARTNER LS #7	K	26	30	08		NMOCD Closure Approved	NA	No
HAMMOND FED #1	L	25	27	08	+ 1	NMOCD Closure Approved	NA	No
BURROUGHS COM #1	H	36	27	08		NMOCD Closure Approved	NA	No
CLEVELAND #6	B	21	27	09	+ 1	NMOCD Closure Approved	NA	No
CHARLEY PAH 4	K	12	27	09		NMOCD Closure Approved	NA	No
GRACE PEARCE #1	O	22	29	11		NMOCD Closure Approved	NA	No
HAMMOND #7	G	26	27	08		NMOCD Closure Approved	NA	No
ONA MCGEE #1	P	04	30	11		NMOCD Closure Approved	NA	No
CUTLER #2	A	14	24	06		NMOCD Closure Approved	NA	No
LINDRITH UNIT #23	D	09	24	03		NMOCD Closure Approved	NA	No
GREEN COM #1	E	36	29	09		NMOCD Closure Approved	NA	No
HAMMOND FED #5	D	25	27	08	+ 1	NMOCD Closure Approved	NA	No
FLORA VISTA #1	F	22	30	12		NMOCD Closure Approved	NA	No
MARSHALL B #1J	O	14	27	09		NMOCD Closure Approved	NA	No
HAMMOND #92	O	25	27	08		NMOCD Closure Approved	NA	No
PRICE #3	A	15	28	08		NMOCD Closure Approved	NA	No

Location/Line Name	LTR	Sec	TN	RG	Monitor Well Status	Status	Depth to GW	Product Level
KRAUSE WN FEDERAL #1E	C	32	28	11		NMOCD Closure Approved	NA	No
CANYON LARGO UNIT #298	A	03	24	06		NMOCD Closure Approved	NA	No
ARGO #1E	N	18	27	10		NMOCD Closure Approved	NA	No
CANYON LARGO UNIT #302	J	03	24	06		NMOCD Closure Approved	NA	No
FEDERAL 6 #32 CH	G	06	26	07		NMOCD Closure Approved	NA	No
SANCHEZ GAS COM C#1	A	28	29	10		NMOCD Closure Approved	NA	No
VALDEZ #2	G	24	29	11	-1	NMOCD Closure Approved	NA	No
FEDERAL R #2	P	15	27	08	+1	NMOCD Closure Approved	NA	No
CANYON LARGO UNIT #336	C	24	25	06		NMOCD Closure Approved	NA	No
CANDELARIA GAS COM C #1	C	27	29	10		NMOCD Closure Approved	NA	No
HOWELL #3	C	03	27	08		NMOCD Closure Approved	NA	No
LAT 2C-55 LINE DRIP	F	17	25	07	+1	NMOCD Closure Approved	NA	No
HORTON 1-E	H	28	31	09	+1	MW1 above B standards. Inject nutrient slurry in corners of pit.	5.3'	No
LAT 3B-39	M	10	29	09	+1	MW1 above B standards. Inject nutrient slurry in corners of pit.	31'-36'	No
JOHNSTON FEDERAL #4	H	33	31	09	+3	Determine Remedial Design Options.	48.94'--50.38'	Yes
STATE GAS COM N #1	H	16	31	12	+4	Determine Remedial Design Options.	75.66'--76.90'	Yes
COLDIRON COM A#1	K	02	30	11	+1	Determine Remedial Design Options.	35.4'	Yes
JOHNSTON FEDERAL #6A	F	35	31	09	+4	Determine Remedial Design Options.	40'-44.6'	Yes
JAMES F. BELL #1E	P	10	30	13	+4	Determine Remedial Design Options.	23.5'-24.5'	Yes
CANADA MESA #2	I	24	24	06	+1	Determine Remedial Design Options.	30'	Yes

Location/Line Name	LTR	Sec	TN	RG	Monitor Well Status	Status	Depth to GW	Product Level
FIELDS A #7A	E	34	32	11	+4	Confirm groundwater gradient. Initiate product removal from MW4.	21.8'-28.8'	Yes
FOGELSON 4-1 COM #14	P	04	29	11	+1	Re-excavate site. Evaluate operators open pits as sources of contamination.	31'-36'	No
SANDOVAL GAS COM A 1A	C	35	30	09	+1	Refusal with Geoprobe. Re-excavate pit and re-install MW1.	35'	No
MILES FEDERAL 1A (CH)	F	05	26	07	+1	Evaluate Data. Sandstone refusal at 25'.	29'	Yes
SHEETS #2	H	28	31	09	+4	Sample Quarterly. Steady drop in B analysis through 4 quarters.	46.3'--50.31'	No
JENNAPAH #1	H	36	28	09	+1	Sample Quarterly. Develop and Sample MW1 03/13/97.	20'	No
FLORANCE C LS 7	F	30	28	08	+1	Sample Quarterly. Need 2 more clean quarters.	40'	No
GRAHAM #53	L	10	27	08	+1	Sample Quarterly. Need 3 more clean samples	28.33'	No
MILES FEDERAL 1 A MV	F	05	26	07	+1	Sample Quarterly. Need 2 more clean quarters.	27.8'	No
LAT. H-37 DRIP Y-3	F	01	31	13	+4	Sample Quarterly. Remove socks. 4 clean quarters with ORB socks.	24.5'-25'	No
2C-22 #1 LINE DRIP	N	35	24	06	+1	Develop Closure Plan. 4 clean quarters.	28.8'	No
2C-22 #3 LINE DRIP	G	13	24	06	+1	Sample Quarterly. Need 3 more clean quarters.	14'-24'	No
2C - 45 Line Drip	P	13	25	06	+1	Sample Quarterly. Need 3 more clean quarters.	42.2'	No
USSELMAN GAS COM #1	B	04	31	10	+1	Sample Quarterly. Need 2 more clean quarters	10'	No
Note:								
MW = Monitor Well								
PZ = Piezometer								
BH = Bore Hole								