3R - 235

REPORTS

DATE:

2003

3R235

elpaso Field Services

Certified Mail: #7002 0510 0000 0307 7497

February 26, 2004

RECEIVED

MAR 03 2004

Oil Conservation Division
Environmental Bureau

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

RE: 2003 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual reports for the 24 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

EPFS has organized the 24 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 24 reports submitted, EPFS is requesting closure of one site located on Navajo lands (Jennepah #1). EPFS understands closure of groundwater sites on Navajo lands 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.

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 # 7002 0510 0000 0307 7473**
Mr. Bill Liesse, BLM – w / enclosures (federal sites only), **Certified Mail # 7002 0510 0000 0307 7466**

2003 ANNUAL GROUNDWATER REPORT
FEDERAL SITES VOLUME I

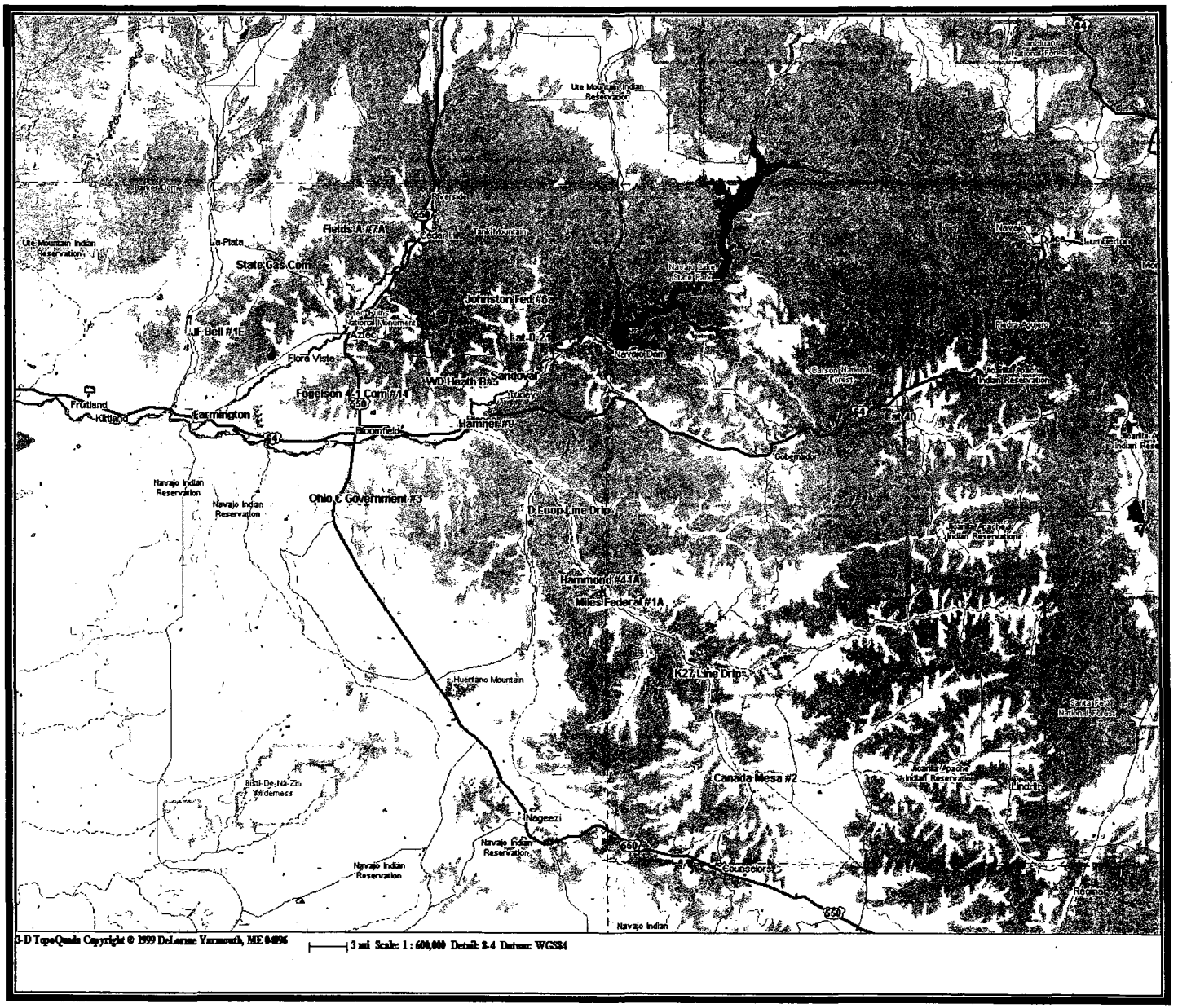
EL PASO FIELD SERVICES

TABLE OF CONTENTS

elpaso

MWH
MONTGOMERY WATSON HARZA

Federal Groundwater Site Map



LIST OF ACRONYMS

B	benzene
btoc	below top of casing
E	ethylbenzene
EPFS	El Paso Field Services
ft	foot/feet
GWEL	groundwater elevation
ID	identification
MW	monitoring well
PSH	phase-separated hydrocarbons
NMWQCC	New Mexico Water Quality Control Commission
T	toluene
TOC	top of casing
NA	not applicable
NE	not established
NM	not measured
NMOCD	New Mexico Oil Conservation Division
NS	not sampled
ORC	oxygen-releasing compound
ppb	parts per billion
µg/L	micrograms per liter
X	total xylenes

EPFS GROUNDWATER SITES
2003 ANNUAL GROUNDWATER REPORT

Sandoval GC A #1A
Meter Code: 89620

SITE DETAILS

Legal Description:	**Town:**	30N	**Range:**	9W	**Sec:**	35	**Unit:** C
NMOCD Haz Ranking:	10	**Land Type:**	Federal	**Operator:**	Amoco Production Company		

PREVIOUS ACTIVITIES

Site Assessment:	5/94	**Excavation:**	9/94 (50 cy)	**Soil Boring:**	5/95
Monitor Well:	5/95	**Geoprobe:**	NA	**Additional MWs:**	NA
Downgradient MWs:	NA	**Replace MW:**	8/97	**Quarterly Initiated:**	4/96
ORC Nutrient Injection:	10/01	**Re-Excavation:**	7/97 (504cy)	**PSH Removal Initiated:**	NA
Annual Initiated:	4/99	**Quarterly Resumed:**	NA		

SUMMARY OF 2003 ACTIVITIES

MW-1: Annual groundwater sampling was performed in May 2003. The ORC socks in MW-1 were removed in May 2003 and replaced in November 2003.

Site-Wide Activities: No other activities were performed at this site during 2003.

SITE MAP

A site map (May) is attached in Figure 1.

SUMMARY TABLES AND GRAPHS

- Analytical data for 2003 are summarized in Table 1, and historic data are presented graphically in Figure 2.
- Analytical reports are presented in Attachment 1.
- Field documentation is presented in Attachment 2.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this site during 2003.

Sandoval GC A #1A
Meter Code: 89620

DISPOSITION OF GENERATED WASTES

No wastes were generated at this site during 2003.

ISOCONCENTRATION MAPS

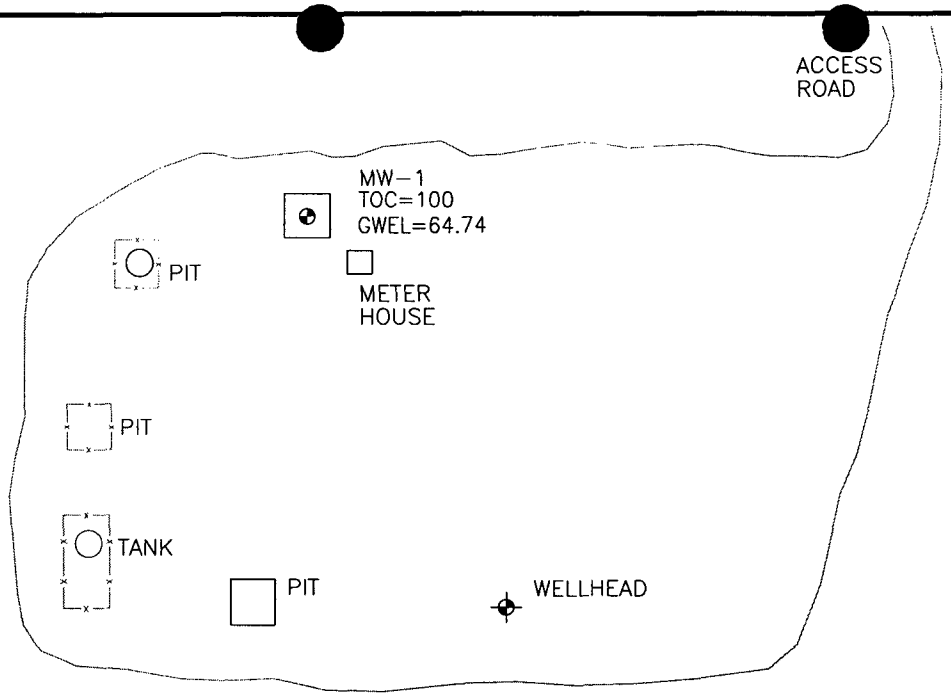
No isoconcentration maps were prepared for this site, however, the attached site map presents the analytical data collected during 2003.

CONCLUSIONS

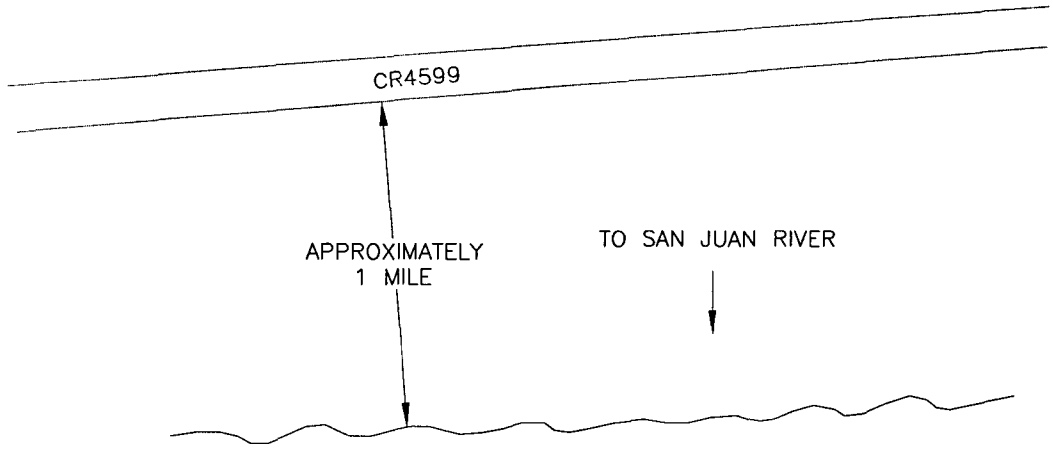
- The benzene concentration in MW-1 continues to be elevated with a measured concentration of 3,850 µg/L in 2003. However, benzene concentrations have decreased from a historic high concentration of 10,400 µg/L in 1996.

RECOMMENDATIONS

- EPFS will continue annual groundwater sampling (including dissolved oxygen measurements) at MW-1.
- EPFS will continue to inspect the ORC socks installed in MW-1, and will replace them in November 2004.



	MW-1
B	3,850
T	601
E	443
X	6,360



LEGEND

MW-1	Approximate Monitoring Well Location and Number
GWEL	Groundwater Elevation (FT Above Mean Sea Level Unless Noted Otherwise)
TOC	Top of Casing
B	Benzene (µg/L)
T	Toluene (µg/L)
E	Ethylbenzene (µg/L)
X	Total Xylenes (µg/L)

N

NOT TO SCALE

sandovalgas_03.dwg

SANDOVAL GAS COM A #1A, METER 89620
MAY 2003

GROUNDWATER SITES
EL PASO FIELD SERVICES

FIGURE 1

TABLE 1

SUMMARY OF BTEX COMPOUNDS IN 2003 GROUNDWATER SAMPLES
SANDOVAL GC A #1A (METER #89620)

Site Name	Monitoring Well	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft btoc)
Sandoval GC A #1A	MW-1	5/21/2003	3,850	601	443	6,360	35.26

FIGURE 2
HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER DEPTHS
SANDOVAL GC A #1A
MW-1

2003 Sandoval.xls,Sandoval MW1

ATTACHMENT 1

LABORATORY REPORTS

DATA VALIDATION WORKSHEET

(Page 1 of 2)

Analytical Method/Analytes:	SW-846 8021B (BTEX)	**Sample Collection Date(s):**	05/21/03
Laboratory:	Accutest	**MWH Job Number:**	EPC-SJRB (Groundwater)
Batch Identification:	T4391	**Matrix:**	Water
MS/MSD Parent(s)[a]:	None	**Field Replicate Parent(s):**	None

Validation Complete: *Brian Buttars - 06/02/03*

(Date/Signature)

Foot Notes	Site ID	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
None	Trip Blank	210503TB01	T4391-01	N		
1	Sandoval	MW-1	T4391-02	Y		Benzene @ 3850 µg/l Toluene @ 601 µg/l Ethylbenzene @ 443 µg/l Xylenes (total) @ 6360 µg/l o-Xylene @ 574 µg/l m,p-Xylene @ 5780 µg/l

DATA VALIDATION WORKSHEET

Analytical Method: SW-846 8021B (BTEX) **MWH Job Number:** EPC-SJRB (Groundwater)

Laboratory: Accutest **Batch Identification:** T4391

Validation Criteria								
Sample ID	**210503TB 01**	**Sandoval MW-1**						
Lab ID	**T4391-01**	**T4391-02**						
Holding Time	A	A						
Analyte List	A	A						
Reporting Limits	A	A						
Trip Blank	A	A						
Equipment Rinseate Blanks	N/A	N/A						
Field Duplicate/Replicate	N/A	N/A						
Surrogate Spike Recovery	A	A[1]						
Initial Calibration	N	N						
Initial Calibration Verification (ICV)	N	N						
Continuing Calibration Verification (CCV)	N	N						
Laboratory Control Sample (LCS)	A	A						
Laboratory Control Sample Duplicate (LCSD)	N	N						
Method Blank	A	A						
Matrix Spike/Matrix Spike Dup. (MS/MSD)	N/A	N/A						
Retention Time Window	N	N						
Injection Time(s)	N	N						
Hardcopy vs. Chain-of-Custody	A	A						
EDD vs. Hardcopy	N	N						
EDD vs. Chain of Custody	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 spike percent recovery outside acceptance criteria for aaa-Trifluorotoluene on Run #2 @ 70% (71-121), which corresponds to the Toluene result. Only one surrogate outside acceptance criteria, no data qualified.

Gulf Coast
ACCUTEST.
Laboratories

06/02/03

Technical Report for

Montgomery Watson

EPFS San Juan Basin GS

San Juan Basin

Accutest Job Number: T4391

Report to:

lynn.benally@elpaso.com

Total number of pages in report: 11

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

Sample Summary

Montgomery Watson

Job No: T4391

EPFS San Juan Basin GS
Project No: San Juan Basin

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T4391-1	05/21/03	07:00	MJN	05/23/03	AQ	Trip Blank Water	210503TB01
T4391-2	05/21/03	13:05	MJN	05/23/03	AQ	Water	SANDOVAL MW-1

Accutest Laboratories

Report of Analysis

Client Sample ID:	210503TB01		
Lab Sample ID:	T4391-1	Date Sampled:	05/21/03
Matrix:	AQ - Trip Blank Water	Date Received:	05/23/03
Method:	SW846 8021B	Percent Solids:	n/a
Project:	EPFS San Juan Basin GS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK005179.D	1	05/28/03	JH	n/a	n/a	GKK272
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	81%		64-121%
98-08-8	aaa-Trifluorotoluene	82%		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:	SANDOVAL MW-1		
Lab Sample ID:	T4391-2	Date Sampled:	05/21/03
Matrix:	AQ - Water	Date Received:	05/23/03
Method:	SW846 8021B	Percent Solids:	n/a
Project:	EPFS San Juan Basin GS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK005186.D	5	05/28/03	JH	n/a	n/a	GKK272
Run #2	KK005187.D	20	05/28/03	JH	n/a	n/a	GKK272
Run #3	KK005204.D	50	05/30/03	JH	n/a	n/a	GKK273

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	3850 [a]	50	ug/l	
108-88-3	Toluene	601 [b]	20	ug/l	
100-41-4	Ethylbenzene	443	5.0	ug/l	
1330-20-7	Xylenes (total)	6360 [a]	150	ug/l	
95-47-6	o-Xylene	574 [a]	50	ug/l	
	m,p-Xylene	5780 [a]	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene			102%	64-121%
460-00-4	4-Bromofluorobenzene	97%	69%		64-121%
98-08-8	aaa-Trifluorotoluene			104%	71-121%
98-08-8	aaa-Trifluorotoluene	90%	70% [c]		71-121%

(a) Result is from Run# 3
(b) Result is from Run# 2
(c) Outside control limits due to matrix interference.

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: T4391
Account: MWHSLCUT Montgomery Watson
Project: EPFS San Juan Basin GS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK272-BS	KK005176.D	1	05/28/03	JH	n/a	n/a	GKK272

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

T4391-1, T4391-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.4	87	74-119
100-41-4	Ethylbenzene	20	17.8	89	82-115
108-88-3	Toluene	20	17.7	89	77-116
1330-20-7	Xylenes (total)	60	54.3	91	79-115
95-47-6	o-Xylene	20	17.7	89	78-114
	m,p-Xylene	40	36.6	92	79-116

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	86%	64-121%
98-08-8	aaa-Trifluorotoluene	85%	71-121%

Blank Spike Summary

Job Number: T4391
Account: MWHSLCUT Montgomery Watson
Project: EPFS San Juan Basin GS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK273-BS	KK005202.D	1	05/30/03	JH	n/a	n/a	GKK273

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

T4391-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.3	107	74-119
1330-20-7	Xylenes (total)	60	63.9	107	79-115
95-47-6	o-Xylene	20	21.1	106	78-114
	m,p-Xylene	40	42.8	107	79-116

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	102%	64-121%
98-08-8	aaa-Trifluorotoluene	101%	71-121%

Method Blank Summary

Job Number: T4391
Account: MWHSLCUT Montgomery Watson
Project: EPFS San Juan Basin GS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK272-MB	KK005177.D	1	05/28/03	JH	n/a	n/a	GKK272

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

T4391-1, T4391-2

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	86%	64-121%
98-08-8	aaa-Trifluorotoluene	85%	71-121%

Method Blank Summary

Job Number: T4391
Account: MWHSLCUT Montgomery Watson
Project: EPFS San Juan Basin GS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK273-MB	KK005203.D	5	05/30/03	JH	n/a	n/a	GKK273

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

T4391-2

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.0	ug/l	
1330-20-7	Xylenes (total)	ND	15	ug/l	
95-47-6	o-Xylene	ND	5.0	ug/l	
	m,p-Xylene	ND	10	ug/l	

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

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T4391
Account: MWHSLCUT Montgomery Watson
Project: EPFS San Juan Basin GS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T4390-3MS	KK005192.D	1	05/28/03	JH	n/a	n/a	GKK272
T4390-3MSD [a]	KK005193.D	1	05/28/03	JH	n/a	n/a	GKK272
T4390-3	KK005191.D	1	05/28/03	JH	n/a	n/a	GKK272

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

T4391-1, T4391-2

CAS No.	Compound	T4390-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	13.7	69	17.0	85	21*	64-124/16
100-41-4	Ethylbenzene	18.2		20	30.1	60*	36.2	90	18*	64-123/14
108-88-3	Toluene	ND		20	13.7	69	16.8	84	20*	64-120/13
1330-20-7	Xylenes (total)	ND		60	42.3	71	52.0	87	21*	66-118/18
95-47-6	o-Xylene	ND		20	13.9	70	17.1	86	21*	65-119/20
	m,p-Xylene	ND		40	28.4	71	34.9	87	21*	66-120/14

CAS No.	Surrogate Recoveries	MS	MSD	T4390-3	Limits
460-00-4	4-Bromofluorobenzene	68%	80%	72%	64-121%
98-08-8	aaa-Trifluorotoluene	68%* [b]	81%	74%	71-121%

(a) High RPD due to low spike recoveries of the MSD.
(b) Outside control limits due to matrix interference.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T4391
Account: MWHSLCUT Montgomery Watson
Project: EPFS San Juan Basin GS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T4410-4MS	KK005210.D	1	05/30/03	JH	n/a	n/a	GKK273
T4410-4MSD	KK005211.D	1	05/30/03	JH	n/a	n/a	GKK273
T4410-4	KK005209.D	1	05/30/03	JH	n/a	n/a	GKK273

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

T4391-2

CAS No.	Compound	T4410-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.5		20	22.0	103	24.3	114	10	64-124/16
1330-20-7	Xylenes (total)	ND		60	61.8	103	69.2	115	11	66-118/18
95-47-6	o-Xylene	ND		20	20.1	101	22.6	113	12	65-119/20
	m,p-Xylene	ND		40	41.6	104	46.6	117	11	66-120/14

CAS No.	Surrogate Recoveries	MS	MSD	T4410-4	Limits
460-00-4	4-Bromofluorobenzene	100%	102%	103%	64-121%
98-08-8	aaa-Trifluorotoluene	100%	102%	102%	71-121%

CHAIN OF CUSTODY # 210503MNQ1

ACCUTEST Laboratories

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

FED-EX Tracking # 836557901599 | Bottle Order Control #

Accutest Quote # | Accutest Job #

Client / Reporting Information

Company Name: MWH / El Paso
Address: 614 Reilly Ave
City: Farmington State: NM Zip: 87401
Project Contact: Lynn Benally E-mail:
Phone #: 505 599 2108
Sampler's Name: MJ Hee

Project Information

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

Requested Analysis

BTEX

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 #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	LAB USE ONLY
1	210503TBQ1		5-21-03	0700	MJ	WQ	1	X								
2	Sundowl MW-1		5-21-03	1305	MJ	WQ	2	X								

Turnaround Time (Business Days)

- [X] 10 Day *STANDARD* — Approved By: / Date:
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*
- [ ] Other

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

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

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by	Date Time:	Received by:
1 MJ Hee	5-22-03 1400	1	2	0935 5-23-03	2
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 [X] Cooler Temp. 5.3 °C

ATTACHMENT 2

FIELD DOCUMENTATION

PRODUCT RECOVERY/WATER LEVEL DATA

Martin J. Nee
PO Box 3861
Farmington, NM 87499-3861
(505)334-2791 (505)320-9675cell

Project Name_	**San Juan Basin Ground Water**	**Project No.**	**30001.0**
Project Manager	**MJN**		
Client Company	**MWH**	**Date**	**11-15-03**
Site Name	**Sandoval**		

Well	Time	Depth to Product (ft)	Depth to Water (ft)	Comment
MW-1	1242	-		Replaced 3 ORC Socks
			38.27	not static
				DO: 1.04
				TD: 38.27

Comments
Water level taken after removing ORC.

Signature: *Martin J. Nee* Date: November 15, 2003

WELL DEVELOPMENT AND SAMPLING LOG

Project No: 30001-0 Project Name: Ben Ivenbesn Client: MWH

Location: Sandoval Well No: MW-1 Development ☐ Sampling ☒

Project Manager MJN Date 5-21-03 Start Time 1156 Weather Sunny 80s

Depth to Water 35.26 Depth to Product — Product Thickness — Measuring Point TOC

Water Column Height 2.98 Well Dia. 4"

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: Gallons	Water Volume In Well: Ounces	Gal/oz to be removed
2.98x.65	1.95x3		5.85

Time (military)	pH	SC (umhos/cm)	Temp (°C)	Eh-ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal.)	Comments/ Flow rate
1214	6.85	3360	23.8				1	clear w/ black
	6.96	3300	21.5				1.8	suspended material
	6.95	3240	21.1				2.4	
	6.93	3170	21.1				3.0	
	6.84	3150	20.8				3.3	
	6.94	3130	20.3				3.8	
	6.97	3120	20.3				4.2	
	6.97	3120	20.4				4.6	
	6.92	3130	20.7				4.85	
	6.94	3150	19.4				5.1	
	6.87	3320	23.1				5.6	let well recover
1250	6.85	3130	20.9				6.0	

Final:

Time	pH	SC	Temp	Eh-ORP	D.O.	Turbidity	Ferrous Iron	Vol Evac.	Comments/Flow rate
1250	6.85	3130	20.9					6.0	

COMMENTS: Well pad appears to have sunk

INSTRUMENTATION: pH Meter ☒ ___ Temperature Meter ☒ ___

DO Monitor ☐ ___ Other ☐ ___

Conductivity Meter ☒ ___

Water Disposal Kutz

Sample ID ___ Sample Time 1256 BTEX ☒ VOCs ☐ Alkilinity ☐

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

Total Phosphorus ☐ ___ ☐ ___ ☐ ___ ☐ ___ ☐

MS/MSD ___ BD ___ BD Name/Time ___ TB 210563TB01