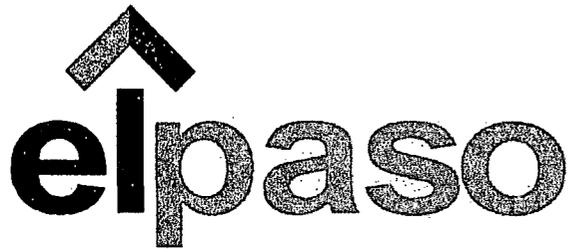


3R - 235

AGWMR

2009



El Paso Tennessee
Pipeline Company

San Juan Basin Pit Program
Groundwater Sites Project

Final 2009 Annual Report
Federal Sites (Volume 1)

April 2010



MWH

1801 California Street, Suite 2900
Denver, Colorado 80202

**2009 ANNUAL GROUNDWATER REPORT
FEDERAL SITES VOLUME I
EL PASO TENNESSEE PIPELINE COMPANY**

TABLE OF CONTENTS

METER or LINE ID	NMOCD CASE NO.	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT
87640	3RP-155-0	Canada Mesa #2	24N	06W	24	I
89961	3RP-170-0	Fields A#7A	32N	11W	34	E
73220	3RP-068-0	Fogelson 4-1 Com. #14	29N	11W	4	P
89894	3RP-186-0	Hammond #41A	27N	08W	25	O
97213	3RP-190-0	Hamner #9	29N	09W	20	A
94715	3RP-196-0	James F. Bell #1E	30N	13W	10	P
89232	3RP-202-0	Johnston Fed #6A	31N	09W	35	F
LD072	3RP-204-0	K27 LD072	25N	06W	4	E
LD174	3RP-212-0	LAT L 40	28N	04W	13	H
LD151	3RP-213-0	Lat 0-21 Line Drip	30N	09W	12	O
94810	3RP-223-0	Miles Fed 1A	26N	07W	5	F
89620	3RP-235-0	Sandoval GC A #1A	30N	09W	35	C

* The Hamner #9 site was submitted for closure in January 2009 and is pending approval from NMOCD. There were no monitoring activities for this site in 2009.



MWH



MWH

BUILDING A BETTER WORLD

RECEIVED OCD

2010 APR 19 A 10:39

April 16, 2010

Mr. Glenn von Gonten
New Mexico Oil Conservation Division (NMOCD)
1220 South St., Francis Drive
Santa Fe, New Mexico 87505

**RE: El Paso Tennessee Pipeline Company Pit Groundwater Remediation Sites
2009 Annual Reports**

Dear Mr. Von Gonten:

MWH Americas, Inc., on behalf of El Paso Tennessee Pipeline Company (EPTPC), is submitting the enclosed 2009 Annual Reports for each of EPTPC's 21 remaining San Juan River Basin pit groundwater remediation sites. The reports present the 2009 sampling and product recovery data and include recommendations for 2010 activities at these sites.

The 2009 Annual Reports are divided into three volumes based on location type. The volumes are as follows:

<u>Volume</u>	<u>Location Type</u>
1	Federal Land
2	Non-Federal Land (Excl. Navajo Nation)
3	Navajo Nation

If you have any questions concerning the enclosed reports, please call either Doug Stavinoha of EPTPC (713-420-5150), Ian Yanagisawa of EPTPC (713-420-7361), or me (303-291-2276).

Sincerely,

Jed Smith
Project Manager

encl.

cc: Bill Freeman – NNEPA, Shiprock, NM (Volume 3 Only)
Bill Liese – BLM, Farmington, NM (Volume 1 Only)
Brandon Powell – NMOCD, Aztec, NM (Volumes 1, 2, and 3)
Doug Stavinoha – EPTPC (Volumes 1, 2, and 3)

LIST OF ACRONYMS

AMSL	above mean sea level
B	benzene
btop	below top of casing
E	ethylbenzene
EPTPC	El Paso Tennessee Pipeline Company
ft	foot/feet
GWEL	groundwater elevation
ID	identification
MW	monitor well
NMWQCC	New Mexico Water Quality Control Commission
T	toluene
TOC	top of casing
NA	not applicable
NMOCD	New Mexico Oil Conservation Division
NS	not sampled
ORC	oxygen-releasing compound
µg/L	micrograms per liter
X	total xylenes

**EPTPC GROUNDWATER SITES
2009 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: BP / 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	PSH Removal in 2009?	No

*Downgradient monitoring wells were attempted in 1995, but met with drilling refusal. In 1997, geoprobe borings were attempted, but were again met with drilling refusal.

SUMMARY OF 2009 ACTIVITIES

MW-1: Annual groundwater sampling and dissolved oxygen measurement (November) were performed during 2009. 3 fresh ORC socks were placed in the well following the annual sampling event.

Site-Wide Activities: No other activities were performed at this Site during 2009.

SITE MAP

A Site map (November) is attached as Figure 1.

SUMMARY TABLES AND GRAPHS

- Historic analytical and water level data are summarized in Table 1 and presented graphically on Figure 2.
- The 2009 laboratory report is presented in Attachment 1 (included on CD).
- The 2009 field documentation is presented in Attachment 2 (included on CD).

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this Site during 2009.

**EPTPC GROUNDWATER SITES
2009 ANNUAL GROUNDWATER REPORT**

**Sandoval GC A #1A
Meter Code: 89620**

DISPOSITION OF GENERATED WASTES

All purge water was taken to the El Paso Natural Gas Rio Vista Compressor Station. The spent oxygen-releasing socks were managed as non-hazardous solid waste.

ISOCONCENTRATION MAPS

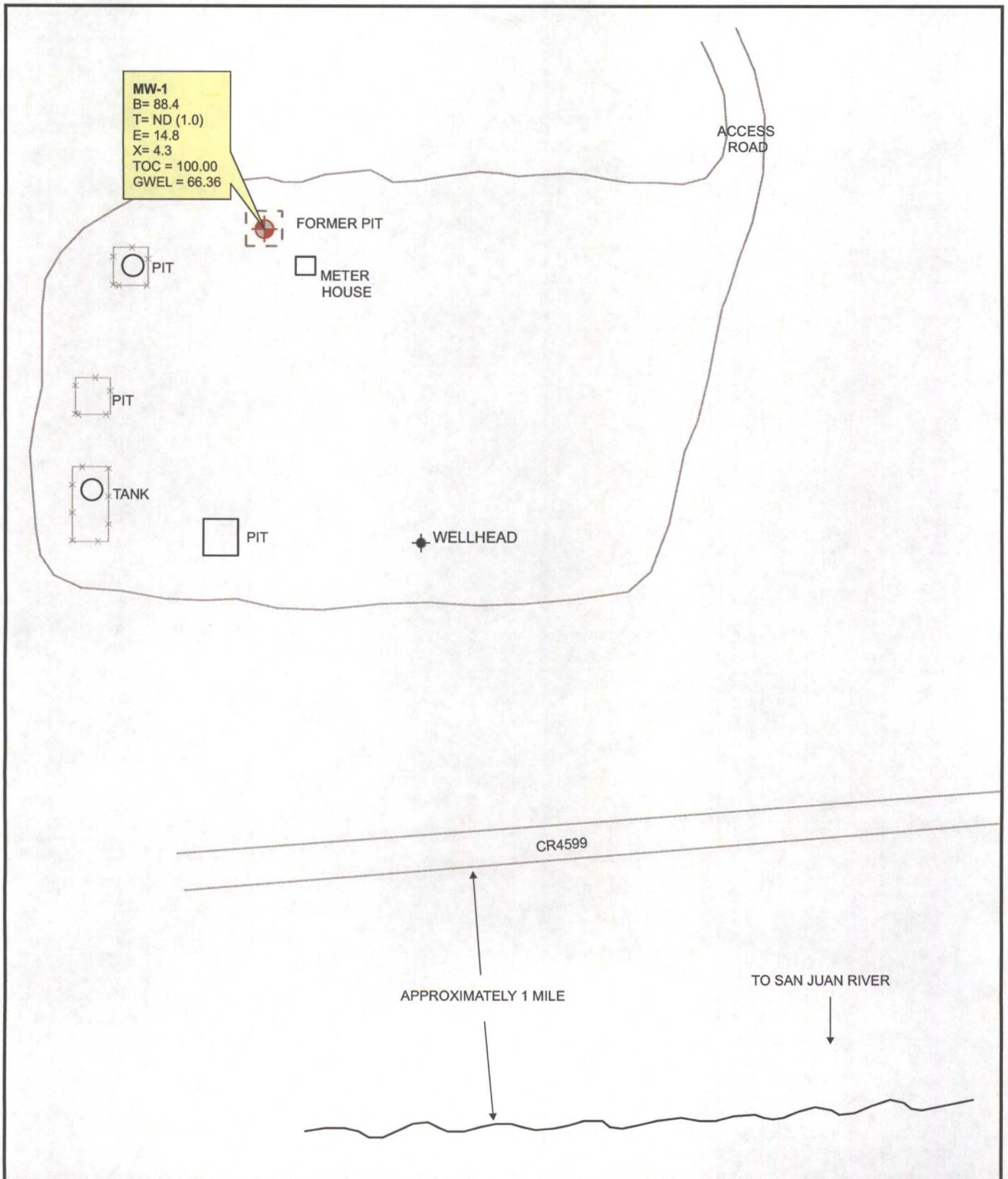
No isoconcentration maps were prepared for this Site; however, the attached Site map presents the analytical data collected during 2009.

RESULTS

- Regional groundwater flow is estimated to be toward the south, toward the San Juan River (approximately 1 mile away).
- The benzene concentration in MW-1 decreased in 2009 to 88.4 µg/L, from a previous year result of 120 µg/L in 2008. As a long-term trend, the benzene concentrations continue to decrease from the historic high concentration of 10,400 µg/L in 1996.
- The dissolved oxygen in MW-1 was approximately 21 mg/L on November 2, 2009, when the ORC[®] socks were removed for the upcoming sampling event. The dissolved oxygen results indicated that sufficient oxygen was present year-round for natural aerobic biodegradation to proceed un-impeded.
- Previous attempts to install downgradient monitoring wells in December 1995 resulted in drilling refusal. Therefore, additional wells are not considered to be feasible at this Site.

RECOMMENDATIONS

- EPTPC will continue annual groundwater sampling and dissolved oxygen measurements at MW-1. Once benzene concentrations approach the NMWQCC benzene standard of 10 µg/L, sampling will be conducted on a quarterly basis.
- EPTPC will continue to inspect the ORC socks installed in MW-1 and will replace them annually.



LEGEND

- MW-4 Existing Monitoring / Observation Well
- PZ-01 Abandoned Monitoring Well
- Groundwater Flow Direction
- Potentiometric Surface Contour (Inferred Where Dashed)

- B Benzene (ug/L)
 - T Toluene (ug/L)
 - E Ethylbenzene (ug/L)
 - X Total Xylenes (ug/L)
 - TOC Top of Casing (ft.*)
 - GWEL Groundwater Elevation (ft. *)
- * = Elevations in feet relative to a 100 ft benchmark.



Not To Scale



MWH



PROJECT: SANDOVAL GC A#1A

TITLE: Groundwater Potentiometric Surface Map,
and BTEX Concentrations - November 4, 2009

FIGURE:

1

FIGURE 2
SUMMARY OF GROUNDWATER BTEX CONCENTRATIONS AND FLUID LEVELS
SANDOVAL GC A #1A (METER #89620)
MW01

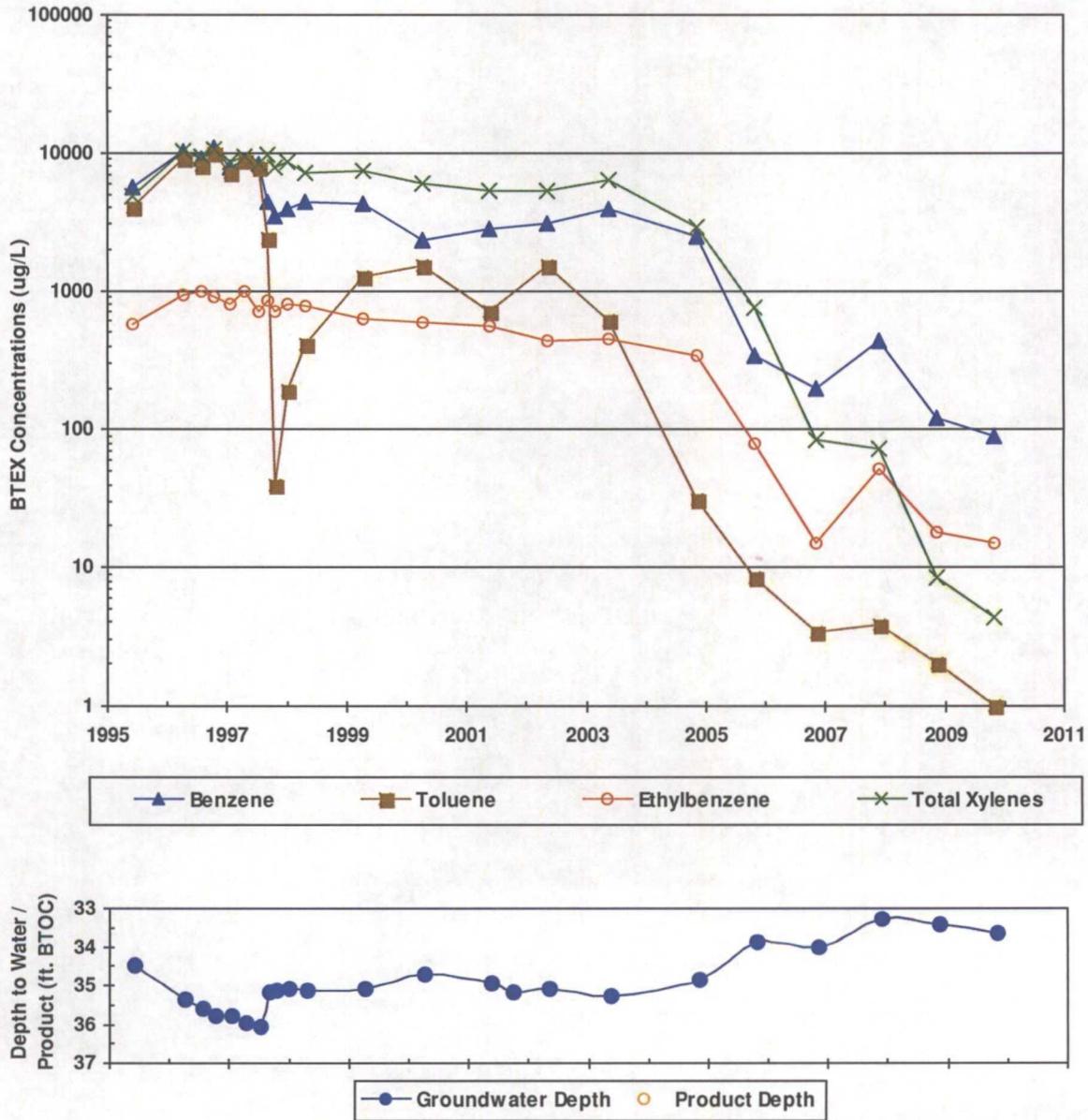


TABLE 1

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

Monitor Well	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft BTOC)	Corrected GW Elevation (Feet*)
NMWQCC GW Std.:		10	750	750	620		
MW01	5/30/1995	5500	3980	579	4780	34.49	65.51
MW01	4/12/1996	10400	8960	925	10100	35.39	64.61
MW01	7/26/1996	8980	7980	1000	9430	35.61	64.39
MW01	10/18/1996	11050	9960	900	10700	35.79	64.21
MW01	1/21/1997	7700	7210	787	8430	35.80	64.20
MW01	4/16/1997	8900	8680	996	9250	35.99	64.01
MW01	7/11/1997	8240	7850	709	8230	36.05	63.95
MW01	9/4/1997	4420	2370	850	9660	35.18	64.82
MW01	10/22/1997	3460	39.6	714	7690	35.14	64.86
MW01	1/6/1998	3850	194	795	8570	35.10	64.90
MW01	4/23/1998	4330	406	783	7220	35.15	64.85
MW01	4/19/1999	4300	1260	629	7440	35.10	64.90
MW01	4/13/2000	2300	1500	590	5900	34.70	65.30
MW01	5/30/2001	2800	710	560	5200	34.97	65.03
MW01	5/16/2002	3000	1500	440	5300	35.11	64.89
MW01	5/21/2003	3850	601	443	6360	35.26	64.74
MW01	11/16/2004	2490	30.9	346	2860	34.84	65.16
MW01	11/8/2005	338	8.5	80.1	757	33.87	66.13
MW01	11/8/2006	198	3.4	14.9	83.6	34.02	65.98
MW01	11/29/2007	441	3.8	52.2	72.2	33.29	66.71
MW01	11/18/2008	120	<2.0	17.9	8.3	33.41	66.59
MW01	11/4/2009	88.4	<1.0	14.8	4.3	33.64	66.36

Notes:

Results shown in bold typeface exceed their respective New Mexico Water Quality Control Commission standards.

"J" = result is qualified as estimated. See laboratory report and/or supplemental data validation report for further detail.

"<" = analyte was not detected at the indicated reporting limit.

Static groundwater elevations have been corrected for product thickness where applicable. Specific gravity of 0.8 used.



Lodestar Services, Incorporated
PO Box 4465, Durango, CO 81302 Office (970) 946-1093

WATER LEVEL DATA

Project Name: San Juan Basin Groundwater
Project Manager: Ashley Ager
Client: MWH
Site Name: Sandoval

Date: 11/04/2009

Well	Time	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Volume Removed	Comments
MW-1	10:52 AM	-	33.64	-	-	Replaced ORC socks - installed 3 new socks

Comments

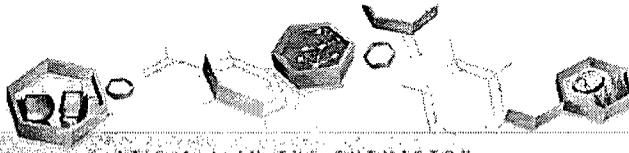
Signature: Ashley L. Ager

Date: 11/05/2009

Site Visit Memo

To: Jed Smith
From: Ashley Ager
CC:
Date: November 3, 2009
Re: Sandoval GC A 001A Site Visit

11/02/09
13:27 hrs, Pulled ORC socks in advance of sampling.
Measured DO: 21.23 mg/L (calibrated at 5500' elevation, 0 salinity).



IT'S ALL IN THE CHEMISTRY

11/13/09

Technical Report for

Montgomery Watson

San Juan Basin Pit Groundwater Remediation

Sandoval/ WO 94293

Accutest Job Number: T41511

Sampling Date: 11/04/09



Report to:

MWH Americas
1801 California St. Suite 2900
Denver, CO 80202
jed.smith@mwhglobal.com

ATTN: Jed Smith

Total number of pages in report: 14



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.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Georgia Jones 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Montgomery Watson

Job No: T41511

San Juan Basin Pit Groundwater Remediation
Project No: Sandoval/ WO 94293

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
T41511-1	11/04/09	11:18 TU	11/05/09	AQ	Ground Water	SANDOVAL MW-1

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Montgomery Watson

Job No T41511

Site: San Juan Basin Pit Groundwater Remediation

Report Date 11/12/2009 4:28:37 PM

1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 11/04/2009 and were received at Accutest on 11/05/2009 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of T41511. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method SW846 8021B

Matrix AQ	Batch ID: GKK1582
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T41575-2MS, T41575-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Benzene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Benzene are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used



Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: SANDOVAL MW-1	Date Sampled: 11/04/09
Lab Sample ID: T41511-1	Date Received: 11/05/09
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8021B	
Project: San Juan Basin Pit Groundwater Remediation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK033094.D	1	11/11/09	FI	n/a	n/a	GKK1582
Run #2							

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

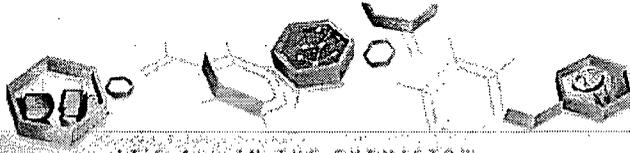
Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	88.4	1.0	0.36	ug/l	
108-88-3	Toluene	ND	1.0	0.28	ug/l	
100-41-4	Ethylbenzene	14.8	1.0	0.25	ug/l	
1330-20-7	Xylenes (total)	4.3	2.0	0.93	ug/l	
95-47-6	o-Xylene	0.63	1.0	0.36	ug/l	J
	m,p-Xylene	3.7	1.0	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		58-125%
98-08-8	aaa-Trifluorotoluene	115%		73-139%

ND = Not detected MDL - Method Detection Limit
 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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

FED-EX Tracking # 870667051186	Bottle Order Control #
Accutest Quota #	Accutest Job # T41511

Client / Reporting Information		Project Information		Requested Analyses										Matrix Codes												
Company Name MWH		Project Name / No. EPTPC San Juan Basin Pit GW Remediation - Sandoval		DW - Drinking Water GW - Ground Water WW - Wastewater SO - Soil SL - Sludge LIQ - Liquid SOL - Other Solid										LAB USE ONLY												
Project Contact Jed Smith E-Mail: jed.smith@mwhglobal.com		Bill to El Paso Corp Invoice Attn: Norma Ramos																								
Address 1801 California Street, Suite 2900		Address 1001 Louisiana Street, Rm S1904B																								
City State Zip Denver CO 80202		City State Zip Hou TX 77002																								
Phone No. Fax No. 303-291-2276		Phone No. Fax No.																								
Sampler's Name Troy Urbay		Client Purchase Order # W094293		BTEX (8021B) Include m, p, & o-xylene X																						
Accutest Sample #		Collection													Number of preserved bottles											
Field ID / Point of Collection Sandoval MW-1		Date 11/04/09	Time 1118												Matrix GW	# of bottles 3	NO	NO2	NO3	PERC	HEX	HEP	TOC	THC	MECH	NOPE

Turnaround Time (Business days)		Data Deliverable Information		Comments / Remarks	
<input checked="" type="checkbox"/> 10 Day STANDARD <input type="checkbox"/> 7 Day <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other		Approved By / Date: _____ <input type="checkbox"/> Commercial "A" <input checked="" type="checkbox"/> Commercial "B" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Data Package Commercial "A" = Results Only Commercial "B" = Results & Standard QC		If samples are received unpreserved, please notify MWH regarding holding time!!!	
Real time analytical data available via Lablink					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY					
Relinquished by Sampler: 1 [Signature]	Date Time: 11/4/09 1620	Received By: 1	Relinquished By: 2 Fred Ex	Date Time: 11/05/09 0900	Received By: 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 <input type="checkbox"/>	On Ice <input checked="" type="checkbox"/> 2.4 Cooler Temp.

4.1
4

SAMPLE INSPECTION FORM

Accutest Job Number: T41511 Client: MWH Date/Time Received: 11/5/09 9:00

of Coolers Received: 1 Thermometer #: 1R1 Temperature Adjustment Factor: +0.4

Cooler Temps: #1: 4.3 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: 87066705, 1186

- COOLER INFORMATION**
- Custody seal missing or not intact
 - Temperature criteria not met
 - Wet ice received in cooler

- SAMPLE INFORMATION**
- Sample containers received broken
 - VOC vials have headspace
 - Sample labels missing or illegible
 - ID on COC does not match label(s)
 - D/T on COC does not match label(s)
 - Sample/Bottles recvd but no analysis on COC
 - Sample listed on COC, but not received
 - Bottles missing for requested analysis
 - Insufficient volume for analysis
 - Sample received improperly preserved

- TRIP BLANK INFORMATION**
- Trip Blank on COC but not received
 - Trip Blank received but not on COC
 - Trip Blank not intact
 - Received Water Trip Blank
 - Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies: _____

TECHNICIAN SIGNATURE/DATE: T. Clark 11/5/09

INFORMATION AND SAMPLE LABELING VERIFIED BY: YC 11-5-09

CORRECTIVE ACTIONS

Client Representative Notified: _____ Date: _____

By Accutest Representative: _____ Via: Phone Email

Client Instructions: _____

4.1
4



GC Volatiles

5

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: T41511
 Account: MWHCODE Montgomery Watson
 Project: San Juan Basin Pit Groundwater Remediation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1582-MB	KK033089.D1		11/10/09	FI	n/a	n/a	GKK1582

The QC reported here applies to the following samples:

Method: SW846 8021B

T41511-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.36	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.28	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
	m,p-Xylene	ND	1.0	0.57	ug/l	

CAS No.	Surrogate Recoveries	Result	Limits
460-00-4	4-Bromofluorobenzene	84%	58-125%
98-08-8	aaa-Trifluorotoluene	112%	73-139%

5.1.1
5

Blank Spike Summary

Job Number: T41511
 Account: MWHCODE Montgomery Watson
 Project: San Juan Basin Pit Groundwater Remediation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1582-BS	KK033085.D 1		11/10/09	FI	n/a	n/a	GKK1582

5.2.1
5

The QC reported here applies to the following samples:

Method: SW846 8021B

T41511-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.5	108	86-121
100-41-4	Ethylbenzene	20	20.6	103	81-116
108-88-3	Toluene	20	20.5	103	87-117
1330-20-7	Xylenes (total)	60	62.2	104	85-115
95-47-6	o-Xylene	20	20.8	104	87-116
	m,p-Xylene	40	41.5	104	84-116

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	95%	58-125%
98-08-8	aaa-Trifluorotoluene	115%	73-139%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T41511
 Account: MWHCODE Montgomery Watson
 Project: San Juan Basin Pit Groundwater Remediation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T41575-2MS	KK033096.D1		11/11/09	FI	n/a	n/a	GKK1582
T41575-2MSD	KK033097.D1		11/11/09	FI	n/a	n/a	GKK1582
T41575-2	KK033090.D1		11/10/09	FI	n/a	n/a	GKK1582

The QC reported here applies to the following samples:

Method: SW846 8021B

T41511-1

CAS No.	Compound	T41575-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.51	J	20	25.4	124*	25.7	126*	1	86-121/19
100-41-4	Ethylbenzene	ND		20	22.5	113	22.4	112	0	81-116/14
108-88-3	Toluene	ND		20	22.8	114	22.9	115	0	87-117/16
1330-20-7	Xylenes (total)	ND		60	66.9	112	66.9	112	0	85-115/12
95-47-6	o-Xylene	ND		20	22.2	111	22.2	111	0	87-116/16
	m,p-Xylene	ND		40	44.7	112	44.7	112	0	84-116/13

CAS No.	Surrogate Recoveries	MS	MSD	T41575-2	Limits
460-00-4	4-Bromofluorobenzene	91%	91%	88%	58-125%
98-08-8	aaa-Trifluorotoluene	111%	112%	109%	73-139%

5.3.1

