# 3R - 213

**2013 AGWMR** 

04 / 03 / 2014



**BUILDING A BETTER WORLD** 

March 4, 2014

2014 MAR -7 A 11: 23

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

RE:

2013 Annual Report Submittals

San Juan River Basin Program - Pit Sites

Dear Mr. von Gonten

On behalf of El Paso CGP Company (EPCGPC), MWH is submitting the enclosed 2013 Annual Reports for 18 of its remaining San Juan River Basin pit groundwater remediation sites. The reports present the 2013 sampling data and planned activities for 2014 at these sites.

If you have any questions concerning the enclosed reports, please contact either Joe Wiley (representing EPCGPC) at 713-420-3475 or me at 515-253-0830.

Sincerely.

David C. Wombacher

Principal Engineer

/mja:dcw:hls Enclosures

CC:

Bill Freeman - NNEPA, Shiprock, NM (Navajo Nation Lands, See Table 1)

Mark Kelly – BLM, Farmington, NM (Federal Lands, See Table 1)

Brandon Powell - NMOCD, Aztec, NM (all 18 reports) Joe Wiley – EPCGP Company (all 18 reports, electronic)

P:\Word Processing\EL PASO\NEW MEXICO\SAN JUAN RIVER BASIN PROGRAM\PIT SITES\LTR-03-14-2013 ANNUAL REPORT SUBMITTALS\Ltr-03-14-von Gonten-2013 Annual Report Submittals.docx

TABLE 1

REPORT LISTING AND LAND TYPE
SAN JUAN RIVER BASIN PROGRAM – PIT SITES

METER or LINE ID	NMOCD CASE NO.	SITE NAME	Land Type
87640	3RP-155-0	Canada Mesa #2	Federal
89961	3RP-170-0	Fields A#7A	Federal
73220	3RP-068-0	Fogelson 4-1 Com. #14	Federal
95608	3RP-407-0	Gallegos Canyon Unit #124E	Navajo
03906	3RP-179-0	GCU Com A #142E	State/Fee
89894	3RP-186-0	Hammond #41A	Federal
94715	3RP-196-0	James F. Bell #1E	Federal
70194	3RP-201-0	Johnston Fed #4	State/Fee
89232	3RP-202-0	Johnston Fed #6A	Federal
LD072	3RP-204-0	K27 LD072	Federal
LD087	3RP-205-0	K-31 Line Drip	State/Fee
72556	3RP-207-0	Knight #1	State/Fee
LD174	3RP-212-0	Lateral L 40	Federal
LD151	3RP-213-0	Lateral 0-21 Line Drip	Federal
94810	3RP-223-0	Miles Fed 1A	Federal
89620	3RP-235-0	Sandoval GC A #1A	Federal
70445	3RP-074-0	Standard Oil Com #1	State/Fee
71669	3RP-239-0	State Gas Com N #1	State/Fee

#### 2013 ANNUAL GROUNDWATER REPORT

Lateral O-21 Line Drip Meter Code: LD151 T30N, R9W, Sec12, Unit O

#### SITE DETAILS

Site Location: Latitude: 36.818600 N, Longitude: -107.730400 W

**Land Type:** Federal **Operator:** Enterprise

#### SITE BACKGROUND

Site Assessment: 1/95
 Excavation: 1/95

Lateral O-21 Line Drip (Site) is managed pursuant to the procedures set forth in the document entitled, "Remediation Plan for Groundwater Encountered during Pit Closure Activities" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This remediation plan was conditionally approved by the New Mexico Oil Conservation Division (OCD) in correspondence dated November 30, 1995; and the OCD approval conditions were adopted into El Paso CGP Company (EPCGP's) program methods. Currently, the site is operated by Enterprise and is not active.

The site is located on Federal land. Several Site investigations were conducted from 1995 to 2000. Monitoring wells were installed in 1995 (MW-1) and 2000 (MW-2 and MW-3). Temporary piezometers were installed in 1997 (PZ-1 and PZ-2). Free product recovery has been periodically conducted at the Site. Currently, groundwater sampling is conducted on a semi-annual basis. Free product was observed in 2013.

#### **SUMMARY OF 2013 ACTIVITIES**

In July 2013, a Site survey was completed to re-develop a base Site map and to confirm the accuracy of existing monitoring well elevations and locations.

On June 6, September 9, and December 12, 2013, water levels were gauged at MW-1, MW-2, and MW-3. For each sampling event in 2013, monitoring wells MW-2 and MW-3 were dry. Groundwater samples were collected from monitoring well MW-1 during the June 2013 quarterly sampling event using a HydraSleeve<sup>TM</sup> (HydraSleeve); a disposable, no-purge passive groundwater sampling device. Groundwater samples were not collected from MW-1 during the September and December sampling event due to the presence of The HydraSleeves were set during the previous sampling event free product. approximately 0.5 feet above termination depth of the monitoring wells using a suspension tether and weights to collect a sample from the screened interval. Groundwater samples were placed into laboratory supplied sample containers, packed on ice and shipped under standard chain of custody protocols to Test America Laboratories in Corpus Christi, Texas where they were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). Additional field parameters were collected including dissolved oxygen, temperature, conductivity, pH, and ORP using a YSI multi-parameter instrument, when free product was not present. The de minimis water remaining in HydraSleeves was combined in a waste container and transferred to an off-site 55-gallon drum for later disposal by Safety-Kleen.

#### 2013 ANNUAL GROUNDWATER REPORT

Lateral O-21 Line Drip Meter Code: LD151 T30N, R9W, Sec12, Unit O

#### **SUMMARY TABLES**

Historic analytical and water level data are summarized in Table 1. When free product was present, static water level elevations were corrected for measurable thicknesses of free-product (specific gravity of 0.75).

#### **SITE MAPS**

Groundwater analytical and groundwater elevation contour maps from each sampling event are included as Figures 1 through 6.

#### **ANALYTICAL LAB REPORTS**

The groundwater analytical lab reports are included as Appendix A.

#### **RESULTS**

- The groundwater flow direction cannot be determined based on our observations. MW-1 was the only monitoring well where groundwater elevation data is presented, due to the other wells onsite being dry (see Figures 2, 4, and 6).
- Concentrations of total xylenes in groundwater collected from MW-1 was above the New Mexico Water Quality Control Commission (NMWQCC) standard during the June sampling event. Benzene, toluene and ethylbenzene were not detected above NMWQCC standards during the June sampling event. Approximately 0.07 feet of free product was detected in June, 0.27 feet of free product was detected in September, and 0.07 feet of free product was detected in December at MW-1. Groundwater samples were not collected from MW-1 during the September or December 2013 monitoring events due to the presence of free product.
- Monitoring wells MW-2 and MW-3 were dry during each sampling event in 2013.

### PLANNED FUTUREACTIVITIES

Following the completion of a Site access agreement with the current Site operator, the installation of five additional monitoring wells is proposed at the Site to further assess the extent of dissolved phase hydrocarbons and to confirm and/or further define the groundwater gradient at the Site. MW-1 and the newly installed monitoring well will be sampled on a semi-annual basis. Monitoring wells MW-2 and MW-3 will be plugged and abandoned in accordance with NMED, Ground Water Quality Bureau, Monitoring Well Construction and Abandonment Guidelines, dated March 2011.

# **TABLES**

TABLE 1 – GROUNDWATER ANALYTICAL AND WATER LEVEL RESULTS

# **TABLE 1 - GROUNDWATER ANALYTICAL RESULTS**

	LAT 0-21 Line Drip									
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Depth to	Depth to	LNAPL		
Location	Date	(µg/L)	(µg/L)	(μg/L)	(µg/L)	Water (ft.)	LNAPL (ft.)	Thickness (ft.)		
	C Standards:	10	750	750	620	NA	NA	NA		
MW-1	11/06/95	935	2700	168	1890	34.45	-	-		
MW-1	11/12/96	741	1620	99	1100	34.75	-	-		
MW-1	02/11/97	202	313	15.6	230	33.82	-	-		
MW-1	05/08/97	1050	1220	50.8	764	33.54	-	-		
MW-1	08/05/97	99.5	179	8.42	160	34.20	-	-		
MW-1	11/04/97	1370	3040	174	2530	35.42	-	-		
MW-1	02/03/98	3000	3600	138	2180	35.08	-	-		
MW-1	05/07/98	5380	7500	247	3500	34.83	-	-		
MW-1	05/18/99	4860	6810	183	3450	34.64	-	-		
MW-1	05/26/00	620	900	49	580	34.76	-	-		
MW-1	06/18/01	1400	2000	37	2500	35.60	ı	-		
MW-1	06/04/02	270	170	12	1900	35.98	ı	-		
MW-1	09/10/02					37.15	36.85	0.30		
MW-1	12/30/02					36.39	36.08	0.31		
MW-1	03/27/03					35.96	ı	-		
MW-1	06/18/03	137	<10	<10	1730	36.26	-	-		
MW-1	09/16/03					37.06	-	-		
MW-1	12/17/03					36.72	-	-		
MW-1	03/16/04					36.22	-	-		
MW-1	06/22/04					36.38	-	-		
MW-1	06/23/04	59.9	11.8	23.8	44.1	36.38	-	-		
MW-1	09/21/04					37.43	-	-		
MW-1	12/21/04					36.98	-	-		
MW-1	04/18/05	66.6	9.3	21.5	56.5	35.93	-	-		
MW-1	10/22/05	8.9	1.4	5.6	9.1	36.99	-	-		
MW-1	01/19/06	37.6	3.6	17.4	42	36.18	-	-		
MW-1	04/24/06	81.4	24.5	21.8	152	35.71	-	-		
MW-1	10/24/06	9.4	1.7	2.3	8.2	36.81	-	-		
MW-1	01/19/07	28.7	5.5	7.3	19.8	36.14	-	-		
MW-1	04/24/07	104	82.1	41	244	35.73	=	-		
MW-1	05/29/07					36.90	-	-		
MW-1	10/25/07	3.8	4	4.4	8.8	37.39	-	-		
MW-1	04/21/08	11.6	1.6 J	5.7	15.1	35.97	-	-		
MW-1	07/23/08	11.2	1.4	3.2	9.3	36.55	-	-		
MW-1	10/08/08	7.6	0.61 J	1.6 J	5.8 J	36.88	-	-		
MW-1	01/07/09	3.1	<1	1	2.6	36.52	=	-		
MW-1	04/06/09	6	2.2	1.6	6.2	36.03	-	-		
MW-1	07/27/09	6.8	0.86 J	1.6	4.8	36.83	-	-		
MW-1	06/06/13	<0.42	<0.90	69	1000	39.98	39.91	0.07		
MW-1	09/09/13					40.04	39.77	0.27		
MW-1	12/12/13					39.39	39.32	0.07		

# **TABLE 1 - GROUNDWATER ANALYTICAL RESULTS**

	LAT 0-21 Line Drip									
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Depth to	Depth to	LNAPL		
Location	Date	(µg/L)	(µg/L)	(μg/L)	(µg/L)	Water (ft.)	LNAPL (ft.)	Thickness (ft.)		
NMWQC	C Standards:	10	750	750	620	NA	NA	NA		
MW-2	08/30/00	1.3	<0.5	<0.5	9.5	33.62	-	-		
MW-2	06/18/01	<0.5	<0.5	<0.5	2	33.16	-	-		
MW-2	06/04/02	< 0.5	< 0.5	<0.5	<1	33.42	-	-		
MW-2	09/10/02					41.48	-	-		
MW-2	12/30/02					33.91	-	-		
MW-2	03/27/03					33.45	-	-		
MW-2	06/18/03	<1	<1	<1	<3	33.80	-	-		
MW-2	06/18/03					34.61	-	-		
MW-2	09/16/03					34.23	-	-		
MW-2	12/17/03					33.70	-	-		
MW-2	03/16/04					33.92	-	-		
MW-2	06/22/04					33.92	-	-		
MW-2	06/23/04	<0.5	< 0.5	<0.5	<1	34.99	-	-		
MW-2	09/21/04					34.49	-	-		
MW-2	12/21/04					33.40	-	-		
MW-2	04/18/05					34.49	-	-		
MW-2	10/22/05					33.68	-	-		
MW-2	01/19/06					33.21	-	-		
MW-2	04/24/06					34.31	-	-		
MW-2	10/24/06					33.66	-	-		
MW-2	01/18/07					32.70	-	-		
MW-2	04/24/07					33.44	-	-		
MW-2	05/29/07					34.78	-	-		
MW-2	10/25/07					33.45	-	-		
MW-2	04/21/08					34.10	-	-		
MW-2	07/23/08					34.45	-	-		
MW-2	10/08/08					34.03	-	-		
MW-2	01/07/09	<1	<1	<1	<2	33.53	-	-		
MW-2	07/27/09	<1	<1	<1	<2	34.42	-	-		
MW-2	06/06/13					DRY	-	-		
MW-2	09/09/13					DRY	-	-		
MW-2	12/12/13					DRY	-	-		

# **TABLE 1 - GROUNDWATER ANALYTICAL RESULTS**

	LAT 0-21 Line Drip									
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Depth to	Depth to	LNAPL		
Location	Date	(µg/L)	(µg/L)	μg/L)	(μg/L)	Water (ft.)	LNAPL (ft.)	Thickness (ft.)		
NMWQC	C Standards:	10	750	750	620	NA	NA	NA		
MW-3	08/30/00	190	20	37	460	34.56	-	-		
MW-3	06/18/01	34	4.7	68	130	34.14	-	-		
MW-3	06/04/02	5.7	0.52	19	30	34.42	-	-		
MW-3	09/10/02					35.92	35.29	0.64		
MW-3	12/30/02					34.97	34.42	0.55		
MW-3	03/27/03					34.49	-	-		
MW-3	06/18/03	<50	<50	540	6490	34.80	-	-		
MW-3	09/16/03					35.64	35.62	0.02		
MW-3	12/17/03					35.24	-	-		
MW-3	03/16/04					34.75	-	-		
MW-3	06/22/04					34.95	-	-		
MW-3	06/23/04	3.3	28.9	34	48.4	34.95	-	-		
MW-3	09/21/04					35.95	-	-		
MW-3	12/21/04					35.51	-	-		
MW-3	04/18/05	<1	<1	5.3	<2	34.48	-	-		
MW-3	10/22/05	<1	<1	<1	1.1	35.52	-	-		
MW-3	01/19/06	<1	<1	<1	<2	34.71	-	-		
MW-3	04/24/06	<1	<1	<1	<2	34.23	-	-		
MW-3	10/24/06	<1	<1	<1	1.2 J	35.33	-	-		
MW-3	01/19/07	<1	<1	<1	<2	34.66	-	-		
MW-3	04/24/07	<1	<1	<1	<2	33.25	-	-		
MW-3	05/29/07					34.42	-	-		
MW-3	10/25/07	<1	<1	<1	<2	35.88	-	-		
MW-3	04/21/08	<2	<2	<2	<6	34.50	-	-		
MW-3	07/23/08	<1	<1	<1	2.3	35.06	-	-		
MW-3	10/08/08	<2	<2	<2	<6	35.41	-	-		
MW-3	01/07/09	<1	<1	0.44 J	2.2	35.05	-	-		
MW-3	04/06/09					34.53	-	-		
MW-3	07/27/09					DRY	-	-		
MW-3	06/06/13					DRY	-	-		
MW-3	09/09/13					DRY	-	-		
MW-3	12/12/13					DRY	-	-		

Results highlighted yellow exceed their respective New Mexico Water Quality Control Comission standards.

<sup>&</sup>quot;J" = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value..
"<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).

#### **FIGURES**

FIGURE 1: JUNE 6, 2013 GROUNDWATER ANALYTICAL RESULTS MAP

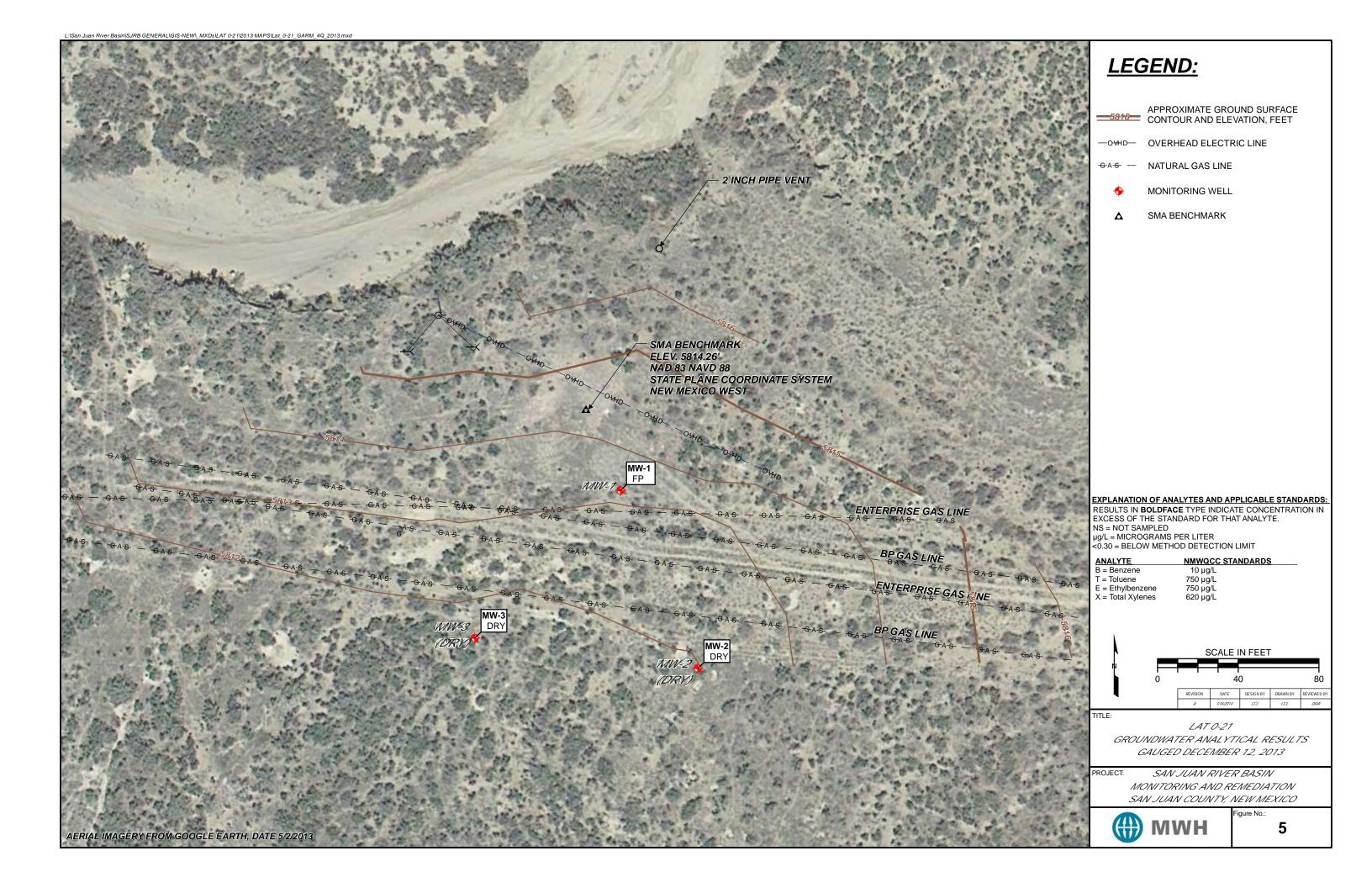
FIGURE 2: JUNE 6, 2013 GROUNDWATER ELEVATION MAP

FIGURE 3: SEPTEMBER 9, 2013 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 4: SEPTEMBER 9, 2013 GROUNDWATER ELEVATION MAP

FIGURE 5: DECEMBER 12, 2013 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 6: DECEMBER 12, 2013 GROUNDWATER ELEVATION MAP



# APPENDIX A

JUNE 6, 2013 GROUNDWATER SAMPLING ANALYTICAL REPORT



THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

#### TestAmerica Laboratories, Inc.

TestAmerica Corpus Christi 1733 N. Padre Island Drive Corpus Christi, TX 78408 Tel: (361)289-2673

### TestAmerica Job ID: 560-40563-1

TestAmerica Sample Delivery Group: June 2013

Client Project/Site: Lat 0-21

### For:

MWH Americas Inc 1801 California Street Suite 2900 Denver, Colorado 80202

Attn: Mr. Daniel Wade

Authorized for release by: 6/19/2013 7:35:57 PM

Cimothy C. Kllogg

Timothy Kellogg, Lab Director tim.kellogg@testamericainc.com

.....LINKS

Review your project results through
Total Access

**Have a Question?** 



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

# **Definitions/Glossary**

Client: MWH Americas Inc Project/Site: Lat 0-21 TestAmerica Job ID: 560-40563-1

SDG: June 2013

#### **Glossary**

RPD

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

6/19/2013

#### **Case Narrative**

Client: MWH Americas Inc Project/Site: Lat 0-21 TestAmerica Job ID: 560-40563-1

SDG: June 2013

Job ID: 560-40563-1

**Laboratory: TestAmerica Corpus Christi** 

Narrative

Receipt

 $The sample was received on 6/12/2013 \ 10:00 \ AM; the sample arrived in good condition, properly preserved and, where required, on ice.$ 

The temperature of the cooler at receipt was  $4.0^{\circ}$  C. No analytical or quality issues were noted.

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# **Client Sample Results**

Client: MWH Americas Inc
Project/Site: Lat 0-21

TestAmerica Job ID: 560-40563-1
SDG: June 2013

Client Sample ID: MW-1 Lab Sample ID: 560-40563-1

Date Collected: 06/09/13 12:15
Date Received: 06/12/13 10:00
Matrix: Water

Method: 8260B - Volatile Organ	nic Compounds (0	GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00042		0.0030	0.00042	mg/L			06/17/13 19:41	3
Ethylbenzene	0.069		0.0030	0.00060	mg/L			06/17/13 19:41	3
Toluene	<0.00090		0.0030	0.00090	mg/L			06/17/13 19:41	3
Xylenes, Total	1.0		0.0090	0.00068	mg/L			06/17/13 19:41	3
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	123		70 - 130			-		06/17/13 19:41	3
4-Bromofluorobenzene (Surr)	106		70 - 130					06/17/13 19:41	3
Dibromofluoromethane (Surr)	108		70 - 130					06/17/13 19:41	3
1,2-Dichloroethane-d4 (Surr)	98		70 - 130					06/17/13 19:41	3

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## **QC Sample Results**

Client: MWH Americas Inc Project/Site: Lat 0-21

TestAmerica Job ID: 560-40563-1

**SDG: June 2013** 

#### Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-89169/8

**Matrix: Water** 

Analysis Batch: 89169

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00014		0.0010	0.00014	mg/L			06/17/13 12:32	1
Ethylbenzene	<0.00020		0.0010	0.00020	mg/L			06/17/13 12:32	1
Toluene	<0.00030		0.0010	0.00030	mg/L			06/17/13 12:32	1
Xylenes, Total	<0.00023		0.0030	0.00023	mg/L			06/17/13 12:32	1

MB MB Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 70 - 130 06/17/13 12:32 Toluene-d8 (Surr) 103 4-Bromofluorobenzene (Surr) 91 70 - 130 06/17/13 12:32 Dibromofluoromethane (Surr) 70 - 130 06/17/13 12:32 110 1,2-Dichloroethane-d4 (Surr) 105 70 - 130 06/17/13 12:32

Lab Sample ID: LCS 560-89169/3

**Matrix: Water** 

Analysis Batch: 89169

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0250	0.0276		mg/L		110	70 - 130	
Ethylbenzene	0.0250	0.0245		mg/L		98	70 - 130	
Toluene	0.0250	0.0278		mg/L		111	70 - 130	
Xylenes, Total	0.0750	0.0736		mg/L		98	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130

TestAmerica Corpus Christi

#### **Lab Chronicle**

Client: MWH Americas Inc Project/Site: Lat 0-21 TestAmerica Job ID: 560-40563-1

SDG: June 2013

Client Sample ID: MW-1

Lab Sample ID: 560-40563-1

**Matrix: Water** 

Date Collected: 06/09/13 12:15 Date Received: 06/12/13 10:00

Batch Batch Dilution Batch Prepared Prep Type Method Run Factor Number or Analyzed Type Analyst Lab Total/NA Analysis 8260B 89169 06/17/13 19:41 RT TAL CC

#### Laboratory References:

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

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# **Certification Summary**

Client: MWH Americas Inc
Project/Site: Lat 0-21
TestAmerica Job ID: 560-40563-1
SDG: June 2013

#### Laboratory: TestAmerica Corpus Christi

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Kansas	NELAP	7	E-10362	10-31-13
Oklahoma	State Program	6	9968	08-31-13
Texas	NELAP	6	T104704210-12-8	03-31-14
USDA	Federal		P330-11-00060	02-03-14

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# **Method Summary**

Client: MWH Americas Inc Project/Site: Lat 0-21 TestAmerica Job ID: 560-40563-1

SDG: June 2013

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CC

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

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# **Sample Summary**

Client: MWH Americas Inc Project/Site: Lat 0-21 TestAmerica Job ID: 560-40563-1

SDG: June 2013

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
560-40563-1	MW-1	Water	06/09/13 12:15	06/12/13 10:00

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REMARKS/PRECAUTIONS. 40563 Loc: 560 INITIAL/DATE CORR TEMP IR GUN ID TEMP C Ä 560-40563 Chain of Custody χ NUMBER OF CONTA 10 なり CONTAINER PRESERV. Kinder Morgan PROJECT INFORMATION かか **BILLING INFORMATION** PROJECT NAME/NUMBER: Lat PO NO: SAMPLE MATRIX Houston, Sie SAMPLE ADDRESS. BILL TO: SAMPLE DATE PHONE ξ -2250 SAMPLE DESCRIPTION **CUSTOMER INFORMATION** 1801 California 3 THE LEADER IN ENVIRONMENTAL TESTING Suite 2900 SEND REPORT TO: Daniel DOWNER, 303-241 mm-1 SAMPLE NO. COMPANY. ADDRESS: PHONE: ΑX

TAL-8222-560 (0412)	TAL-8				
TIME	PRINTED NAME/COMPANY	TIME	IMP (20) PRINTED NAME/COMPANY:	20 GMI	PRMTED NAME/COMPANY:
	SIGNATURE		SIGNATURE:	KINI	SIGNATURE:
DATE	3. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	1 RECEIVED BY:
TIME	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY.	TIME	PRINTED NAME/COMPANY: MUNIT
	SIGNATURE.		SIGNATURE	11/9	SIGNATURE COLICE (LONG
DATE	3. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	1. RELINQUISHED BY: Daniel Wade
			S DAYS) 🖂 RUSH TAT (MAY REQUIRE SURCHARGE) 🔔	0 BUSINESS	REQUIRED TURNAROUND AROUTINE TAT (10 BUSINESS DAYS)
5875	AIRBILL NO: 77/88 > 5899		SHIPMENT METHOD: FELEX		SAMPLER: Daniel Wade
	of the same of				
					-

TestAmerica 1733 N. Padre Island Drive Corpus Christi, TX 78408

Phone: 361.289.2673/Fax: 361.289.2471

Client: MWH Americas Inc

Job Number: 560-40563-1

SDG Number: June 2013

Login Number: 40563 List Source: TestAmerica Corpus Christi

List Number: 1

Creator: McDermott, Vivian

Creator. WicDermott, Vivian		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	