AP - 009

ANNUAL MONITORING REPORT

YEAR(S):
2003

ANNUAL MONITORING REPORT

AP-09

MAR 27 2003

EOTT ENERGY, LLC
HDO 90-23
LEA COUNTY, NEW MEXICO
NE4 NW4 SECTION 6, TOWNHIP 20 SOUTH, RANGE 37 EAST

PB 5/6/03

PREPARED FOR:

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PREPARED BY:

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March 2003

Ken Dutton
Project Manager

FOR
Chance I. Johnson
New Mexico Regional Manager

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INTRODUCTION

Environmental Technology Group, Inc. (ETGI), on behalf of EOTT Energy, LLC (EOTT), prepared this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. This report is intended to be viewed as a complete document with figures, attachments, tables, and text. The report presents the results of the quarterly groundwater monitoring events only. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during four quarterly events in calendar year 2002 to assess the levels and extent of dissolved phase and phase-separated petroleum hydrocarbon (PSH) constituents. The groundwater monitoring events consisted of measuring static water levels in the monitor wells, checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing measurable levels of PSH were not sampled.

FIELD ACTIVITIES

The site monitor wells were gauged and sampled on February 20, June 25, September 17, and November 20, 2002. In addition, the site monitor wells were gauged and sampled on November 20, 2002 for concentrations of polynuclear aromatic hydrocarbons, major cations and anions, total dissolved solids and New Mexico Water Quality Control Commission metals in accordance with the NMOCD letter dated January 4, 2000. During each sampling event the monitor wells designated to be sampled were purged of approximately three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were stored in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of by Pate Trucking, Hobbs, New Mexico or Vista Trucking, Eunice, New Mexico utilizing a licensed disposal facility (NMOCD AO SWD-730).

GROUNDWATER GRADIENT

Locations of the monitor wells and the inferred groundwater gradient, as measured on November 20, 2002, are depicted on Figure 2, the Site Groundwater Gradient Map. The groundwater elevation data is provided as Table 1. Groundwater elevation contours generated from the final quarterly event of calendar year 2002 water level measurements indicated a general gradient of approximately 0.001 ft/ft to the southeast as measured between groundwater monitor wells MW-1 and MW-8. The depth to groundwater as measured from the top of the well casing ranged between 45.79 to 48.78 feet in the shallow alluvial aquifer.

A measurable thickness of PSH was detected in monitor wells MW-2 and MW-6 during the annual monitoring period. A maximum thickness of 2.16 feet in monitor well MW-2 and 2.50 feet in monitor well MW-6 was measured and is shown on Table 1.

LABORATORY RESULTS

Groundwater samples collected during the sampling events were delivered to AnalySys, Inc. in Austin, Texas for determination of Benzene, Toluene, Ethylbenzene and total Xylene, (BTEX) concentrations by EPA Method SW846-8260b. The groundwater chemistry data is provided as Table 2 and the Laboratory Reports are provided as Appendix A. Groundwater samples which exceeded NMOCD regulatory standards for Benzene and BTEX, are indicated on Figure 3, the NMOCD Site Map.

Laboratory results for groundwater samples collected during the calendar year 2002 indicated that Benzene and BTEX concentrations were below NMOCD regulatory standards for monitor wells MW-1, MW-4, MW-5, MW-7, and MW-8. The Benzene and BTEX constituent concentrations in monitor well MW-3 was above NMOCD regulatory standards in the groundwater samples.

SUMMARY

This report presents the results of monitoring activities for the annual monitoring period of calendar year 2002. A measurable thickness of PSH was detected in monitor wells MW-2 and MW-6 during the annual monitoring period. A maximum thickness of 2.16 feet in monitor well MW-2 and 2.50 feet in monitor well MW-6 was measured in the monitor wells. During this reporting period, approximately 486 gallons of PSH was recovered from the aforementioned monitor wells. Recovered PSH was reintroduced into the EOTT transportation system at the Lea Station Facility, Monument, New Mexico.

Groundwater elevation contours generated from the final quarterly event of calendar year 2002 water level measurements indicate a general gradient of approximately 0.001 ft/ft to the southeast as measured between groundwater monitor wells MW-1 and MW-8.

Laboratory results for groundwater samples collected during the calendar year 2002 indicated that Benzene and BTEX constituent concentrations were below NMOCD regulatory standards for monitor wells MW-1, MW-4, MW-5, MW-7, and MW-8. The Benzene and BTEX concentrations in monitor well MW-3 was above NMOCD regulatory standards in the groundwater samples.

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Quality Control Review

FIGURES

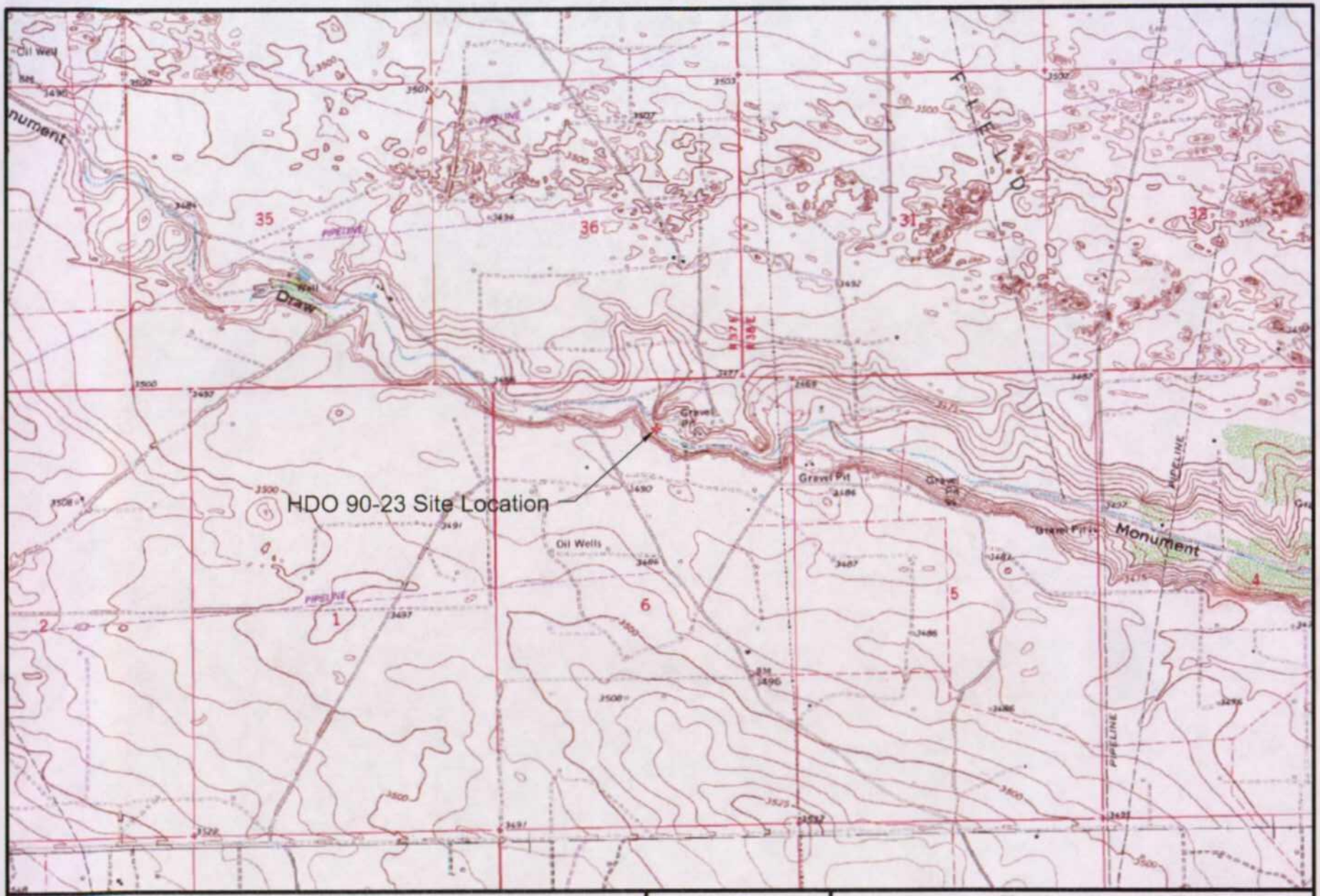

Figure 1
Site Location Map

EOTT Energy Corp.
HDO 90-23
Lea County, NM

Environmental Technology Group, Inc.

NE1/4 NW1/4 Sec 6 T20S R37E		ETGI Project #: EOT2019C
Scale: NTS	Prep By: BJN	Checked By: CR
November 20, 2001	Lat. 32° 31' 11.0"N Long. 103° 12' 02.4"W	

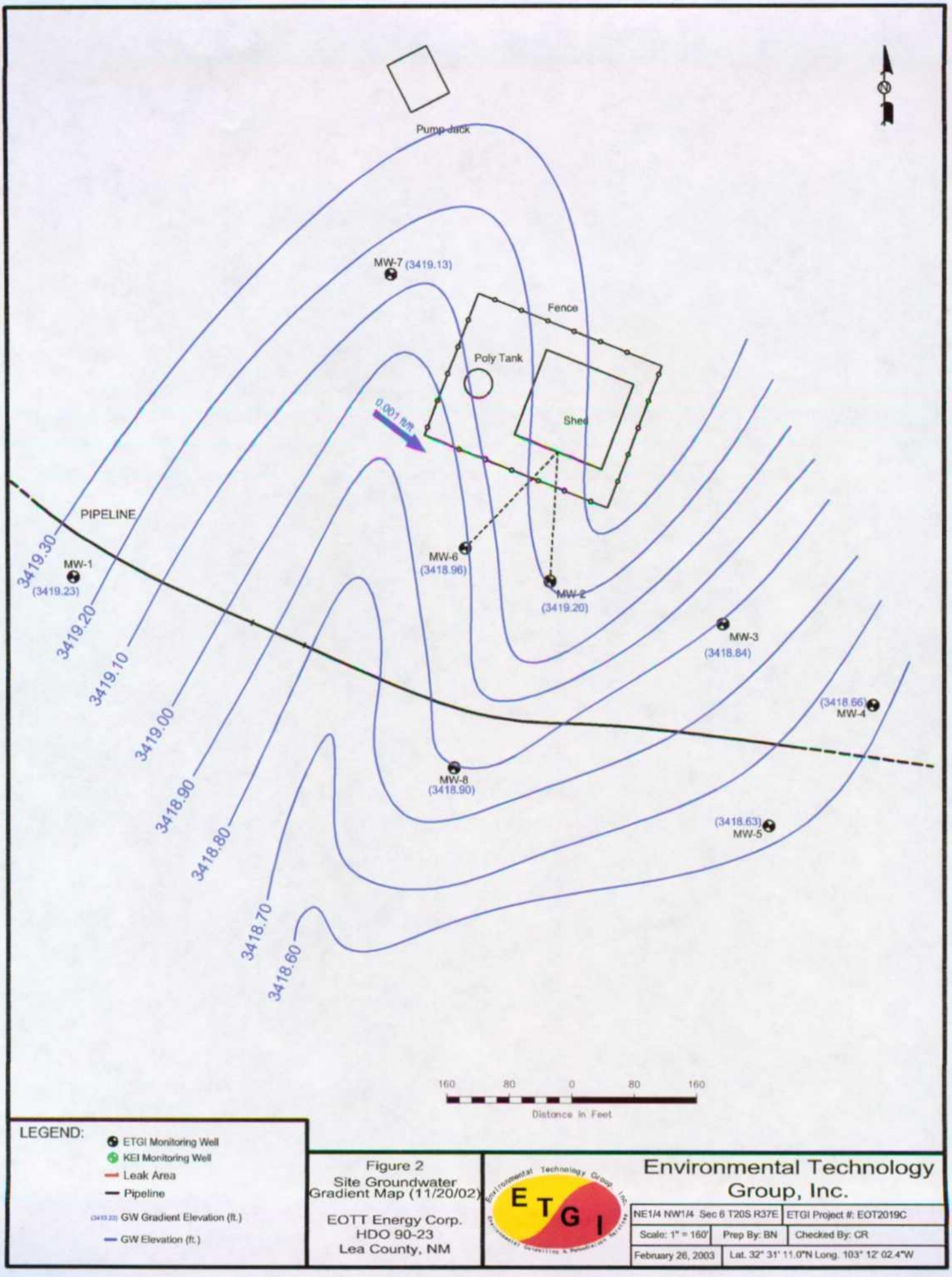

Figure 2
Site Groundwater Gradient Map (11/20/02)

EOTT Energy Corp.
HDO 90-23
Lea County, NM

Environmental Technology Group, Inc.

NE1/4 NW1/4 Sec 6 T20S R37E		ETGI Project #: EOT2019C
Scale: 1" = 160'	Prep By: BN	Checked By: CR
February 26, 2003	Lat. 32° 31' 11.0"N Long. 103° 12' 02.4"W	

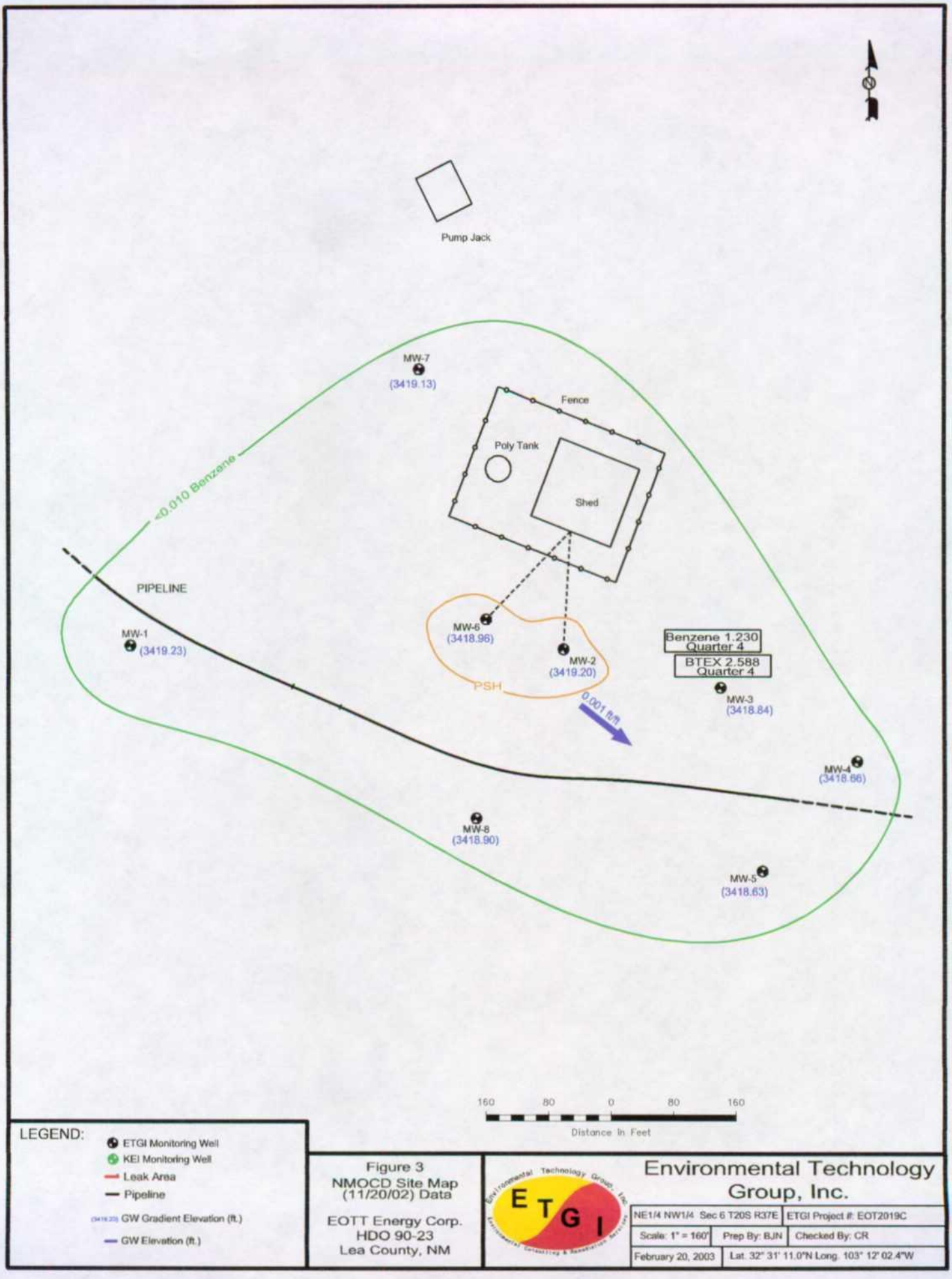

Figure 3
NMOCD Site Map
(11/20/02) Data

EOTT Energy Corp.
HDO 90-23
Lea County, NM

Environmental Technology Group, Inc.

NE1/4 NW1/4 Sec 6 T20S R37E		ETGI Project #: EOT2019C
Scale: 1" = 160'	Prep By: BJN	Checked By: CR
February 20, 2003	Lat. 32° 31' 11.0"N Long. 103° 12' 02.4"W	

TABLES

TABLE 1

GROUNDWATER ELEVATION

EOTT ENERGY, LLC
HDO 90 - 23
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EO 2019

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 1	03/08/00	3,465.61	-	46.16	0.00	3,419.45
	05/12/00	3,465.61	-	46.13	0.00	3,419.48
	09/11/00	3,465.61	-	46.18	0.00	3,419.43
	12/11/00	3,465.61	-	46.23	0.00	3,419.38
	03/19/01	3,465.61	-	46.16	0.00	3,419.45
	05/30/01	3,465.61	-	46.13	0.00	3,419.48
	09/25/01	3,465.61	-	46.37	0.00	3,419.24
	11/20/01	3,465.61	-	46.38	0.00	3,419.23
	02/20/02	3,465.61	-	46.34	0.00	3,419.27
	06/25/02	3,465.61	-	46.37	0.00	3,419.24
	09/17/02	3,465.61	-	46.36	0.00	3,419.25
	11/20/02	3,465.61	-	46.38	0.00	3,419.23
MW - 2	03/08/00	3,465.44	46.19	46.39	0.20	3,419.22
	05/12/00	3,465.44	46.22	46.32	0.10	3,419.21
	09/11/00	3,465.44	46.21	46.30	0.09	3,419.22
	12/11/00	3,465.61	46.06	47.88	1.82	3,419.28
	03/19/01	3,465.61	46.19	46.39	0.20	3,419.39
	05/30/01	3,465.61	46.31	46.35	0.04	3,419.29
	09/25/01	3,465.61	46.14	46.34	0.20	3,419.44
	11/20/01	3,465.61	46.44	46.65	0.21	3,419.14
	02/06/02	3,465.61	46.31	47.70	1.39	3,419.09
	02/20/02	3,465.61	46.43	46.68	0.25	3,419.14
	06/25/02	3,465.61	46.28	47.90	1.62	3,419.09
	09/17/02	3,465.61	46.19	48.35	2.16	3,419.10
	10/08/02	3,465.61	46.51	46.73	0.22	3,419.07
	11/07/02	3,465.61	46.53	46.53	0.00	3,419.08
	11/20/02	3,465.61	46.38	46.57	0.19	3,419.20
MW - 3	03/08/00	3,464.68	-	45.59	0.00	3,419.09
	05/12/00	3,464.88	-	45.71	0.00	3,419.17
	09/11/00	3,464.68	-	45.64	0.00	3,419.04
	12/11/00	3,464.68	-	45.72	0.00	3,418.96
	03/19/01	3,464.68	-	45.59	0.00	3,419.09
	05/30/01	3,464.68	-	45.64	0.00	3,419.04
	09/25/01	3,464.68	-	45.85	0.00	3,418.83
	11/20/01	3,464.68	-	45.86	0.00	3,418.82
	02/20/02	3,464.68	-	45.79	0.00	3,418.89
	06/25/02	3,464.68	-	45.84	0.00	3,418.84
	09/17/02	3,464.68	-	45.86	0.00	3,418.82
	11/20/02	3,464.68	-	45.84	0.00	3,418.84

TABLE 1

GROUNDWATER ELEVATION

EOTT ENERGY, LLC
HDO 90 - 23
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EO 2019

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	03/08/00	3,465.76	-	46.80	0.00	3,418.96
	05/12/00	3,465.76	-	45.87	0.00	3,419.89
	09/11/00	3,465.76	-	46.83	0.00	3,418.93
	12/11/00	3,465.76	-	46.89	0.00	3,418.87
	03/19/01	3,465.76	-	46.80	0.00	3,418.96
	05/30/01	3,465.76	-	46.89	0.00	3,418.87
	09/25/01	3,465.76	-	47.05	0.00	3,418.71
	11/20/01	3,465.76	-	47.07	0.00	3,418.69
	02/20/02	3,465.76	-	47.02	0.00	3,418.74
	06/25/02	3,465.76	-	47.13	0.00	3,418.63
	09/17/02	3,465.76	-	47.11	0.00	3,418.65
	11/20/02	3,465.76	-	47.10	0.00	3,418.66
MW - 5	03/08/00	3,467.40	-	48.47	0.00	3,418.93
	05/12/00	3,467.40	-	48.53	0.00	3,418.87
	09/11/00	3,467.40	-	48.52	0.00	3,418.88
	12/11/00	3,467.40	-	48.52	0.00	3,418.88
	03/19/01	3,467.40	-	48.47	0.00	3,418.93
	05/30/01	3,467.40	-	48.56	0.00	3,418.84
	09/25/01	3,467.40	-	48.72	0.00	3,418.68
	11/20/01	3,467.40	-	48.73	0.00	3,418.67
	02/20/02	3,467.40	-	48.69	0.00	3,418.71
	06/25/02	3,467.40	-	48.78	0.00	3,418.62
	09/17/02	3,467.40	-	48.77	0.00	3,418.63
	11/20/02	3,467.40	-	48.77	0.00	3,418.63
MW - 6	03/08/00	3,465.42	45.98	45.98	0.00	3,419.44
	05/12/00	3,465.42	46.17	46.65	0.48	3,419.18
	09/11/00	3,465.42	46.06	46.57	0.51	3,419.28
	12/11/00	3,465.42	46.21	46.43	0.22	3,419.18
	03/19/01	3,465.42	45.96	45.98	0.02	3,419.46
	05/30/01	3,465.42	46.13	46.89	0.76	3,419.18
	09/25/01	3,465.42	46.21	47.81	1.60	3,418.97
	11/20/01	3,465.42	46.13	48.23	2.10	3,418.98
	02/06/02	3,465.42	46.08	48.48	2.40	3,418.98
	02/20/02	3,465.42	46.05	48.55	2.50	3,419.00
	06/25/02	3,465.42	46.38	46.81	0.43	3,418.98
	09/17/02	3,465.42	46.35	46.77	0.42	3,419.01
	10/08/02	3,465.42	46.40	46.70	0.30	3,418.98
	11/07/02	3,465.42	46.40	46.69	0.29	3,418.98
	11/20/02	3,465.42	46.46	46.48	0.02	3,418.96

TABLE 1

GROUNDWATER ELEVATION

EOTT ENERGY, LLC
HDO 90 - 23
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EO 2019

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 7	03/08/00	3,466.22	-	46.84	0.00	3,419.38
	05/12/00	3,466.22	-	46.90	0.00	3,419.32
	09/11/00	3,466.22	-	46.86	0.00	3,419.36
	12/11/00	3,466.22	-	46.91	0.00	3,419.31
	03/19/01	3,466.22	-	46.84	0.00	3,419.38
	05/30/01	3,466.22	-	46.84	0.00	3,419.38
	09/25/01	3,466.22	-	47.07	0.00	3,419.15
	11/20/01	3,466.22	-	47.08	0.00	3,419.14
	02/20/02	3,466.22	-	47.03	0.00	3,419.19
	06/25/02	3,466.22	-	47.11	0.00	3,419.11
	09/17/02	3,466.22	-	47.08	0.00	3,419.14
	11/20/02	3,466.22	-	47.09	0.00	3,419.13
MW - 8	03/08/00	3,467.61	-	48.48	0.00	3,419.13
	05/12/00	3,467.61	-	48.53	0.00	3,419.08
	09/11/00	3,467.61	-	48.48	0.00	3,419.13
	12/11/00	3,467.61	-	48.55	0.00	3,419.06
	03/19/01	3,467.61	-	48.48	0.00	3,419.13
	05/30/01	3,467.61	-	48.52	0.00	3,419.09
	09/25/01	3,467.61	-	48.69	0.00	3,418.92
	11/20/01	3,467.61	-	48.71	0.00	3,418.90
	02/20/02	3,467.61	-	48.68	0.00	3,418.93
	06/25/02	3,467.61	-	48.74	0.00	3,418.87
	09/17/02	3,467.61	-	48.73	0.00	3,418.88
	11/20/02	3,467.61	-	48.71	0.00	3,418.90

TABLE 2

GROUNDWATER CHEMISTRY

EOTT ENERGY, LLC

HDO 90-23

LEA COUNTY, NEW MEXICO

ETGI PROJECT # EO 2019

All concentrations are in mg/L

SAMPLE LOCATION	SAMPLE DATE	Method: 8260b			
		BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES
MW - 1	09/14/99	<0.001	<0.001	<0.001	<0.001
	11/03/99	<0.001	<0.001	<0.001	<0.001
	03/08/00	<0.001	<0.001	<0.001	<0.001
	05/12/00	<0.001	<0.001	<0.001	<0.001
	09/11/00	<0.001	<0.001	<0.001	<0.001
	12/11/00	<0.001	<0.001	<0.001	<0.001
	03/19/01	<0.001	<0.001	<0.001	<0.001
	05/30/01	0.052	<0.001	<0.001	<0.001
	09/25/01	<0.001	<0.001	<0.001	<0.001
	11/20/01	<0.001	<0.001	<0.001	<0.001
	02/20/02	<0.001	<0.001	<0.001	<0.001
	06/25/02	<0.001	<0.001	<0.001	<0.001
	09/17/02	<0.001	<0.001	<0.001	<0.001
	11/20/02	<0.001	<0.001	<0.001	<0.001
MW - 3	09/14/99	1.850	0.079	1.820	0.116
	11/03/99	1.900	<0.001	2.060	0.160
	03/08/00	1.040	<0.010	1.430	<0.010
	05/12/00	0.545	0.004	0.259	<0.001
	09/11/00	0.572	0.013	1.490	<0.010
	12/11/00	0.372	<0.010	1.570	0.038
	03/19/01	0.781	<0.005	1.340	0.010
	05/30/01	0.902	<0.005	1.050	0.203
	09/25/01	1.340	<0.001	1.040	0.014
	11/20/01	1.440	<0.001	0.971	0.021
	02/20/02	1.870	<0.001	1.140	0.043
	06/25/02	1.800	<0.001	1.100	0.471
	09/17/02	1.960	<0.001	1.310	0.018
	11/20/02	1.230	<0.001	1.330	0.028
MW - 4	09/14/99	<0.001	<0.001	<0.001	<0.001
	11/03/99	<0.001	<0.001	<0.001	<0.001
	03/08/00	<0.001	<0.001	0.002	<0.001
	05/12/00	<0.001	<0.001	<0.001	<0.001
	09/11/00	<0.001	0.002	<0.001	<0.001
	12/11/00	<0.001	<0.001	<0.001	<0.001
	03/19/01	<0.001	<0.001	<0.001	<0.001
	05/30/01	<0.005	<0.005	<0.005	<0.005
	09/25/01	<0.001	<0.001	<0.001	<0.001
	11/20/01	0.001	<0.001	<0.001	<0.001
	02/20/02	0.001	<0.001	<0.001	<0.001
	06/25/02	<0.001	<0.001	<0.001	<0.001
	09/17/02	<0.001	<0.001	<0.001	<0.001
	11/20/02	<0.001	<0.001	<0.001	<0.001

TABLE 2

GROUNDWATER CHEMISTRY

EOTT ENERGY, LLC
HDO 90-23
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EO 2019

All concentrations are in mg/L

SAMPLE LOCATION	SAMPLE DATE	Method: 8260b			
		BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES
MW - 5	09/14/99	<0.001	<0.001	<0.001	<0.001
	11/03/99	<0.001	<0.001	<0.001	<0.001
	03/08/00	<0.001	<0.001	<0.001	<0.001
	05/12/00	<0.001	<0.001	<0.001	<0.001
	09/11/00	<0.001	<0.001	<0.001	<0.001
	12/11/00	<0.001	<0.001	<0.001	<0.001
	03/19/01	<0.001	<0.001	<0.001	<0.001
	05/30/01	<0.005	<0.005	<0.005	<0.005
	09/25/01	<0.001	<0.001	<0.001	<0.001
	11/20/01	<0.001	<0.001	<0.001	<0.001
	02/20/02	<0.001	<0.001	<0.001	<0.001
	06/25/02	<0.001	<0.001	<0.001	<0.001
	09/17/02	<0.001	<0.001	<0.001	<0.001
	11/20/02	<0.001	<0.001	<0.001	<0.001
MW - 6	09/14/99	0.072	0.063	0.020	0.032
MW - 7	09/14/99	<0.001	<0.001	<0.001	<0.001
	11/03/99	<0.001	<0.001	<0.001	<0.001
	03/08/00	<0.001	<0.001	<0.001	<0.001
	05/12/00	<0.001	<0.001	<0.001	<0.001
	09/11/00	0.002	<0.001	<0.001	<0.001
	12/11/00	<0.001	<0.001	<0.001	<0.001
	03/19/01	<0.001	<0.001	<0.001	<0.001
	05/30/01	<0.005	<0.005	<0.005	<0.005
	09/25/01	<0.001	<0.001	<0.001	<0.001
	11/20/01	<0.001	<0.001	<0.001	<0.001
	02/20/02	<0.001	<0.001	<0.001	<0.001
	06/25/02	<0.001	<0.001	<0.001	<0.001
	09/17/02	<0.001	<0.001	<0.001	<0.001
	11/20/02	<0.001	<0.001	<0.001	<0.001
MW - 8	09/14/99	<0.001	<0.001	<0.001	<0.001
	11/03/99	<0.001	<0.001	<0.001	<0.001
	03/08/00	<0.001	<0.001	<0.001	<0.001
	05/12/00	<0.001	<0.001	<0.001	<0.001
	09/11/00	<0.001	<0.001	0.002	<0.001
	12/11/00	<0.001	<0.001	<0.001	<0.001
	03/19/01	<0.001	<0.001	<0.001	<0.001
	05/30/01	<0.005	<0.005	<0.005	<0.005
	09/25/01	<0.001	<0.001	<0.001	<0.001
	11/20/01	<0.001	<0.001	<0.001	<0.001
	02/20/02	<0.001	<0.001	<0.001	<0.001
	06/25/02	<0.001	<0.001	<0.001	<0.001
	09/17/02	<0.001	<0.001	<0.001	<0.001
	11/20/02	<0.001	<0.001	<0.001	<0.001

TABLE 2

GROUNDWATER CHEMISTRY

EOTT ENERGY, LLC
HDO 90-23
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EO 2019

All concentrations are in mg/L

SAMPLE LOCATION	SAMPLE DATE	Method: 8260b			
		BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES
EB - 1	03/19/01	<0.001	<0.001	<0.001	<0.001
	05/30/01	<0.001	<0.001	<0.001	<0.001
	11/20/01	<0.001	<0.001	<0.001	<0.001
	02/20/02	<0.001	<0.001	<0.001	<0.001
	06/25/02	<0.001	<0.001	<0.001	<0.001
	09/17/02	<0.001	<0.001	<0.001	<0.001
	11/20/02	<0.001	<0.001	<0.001	<0.001

APPENDICES

Appendix A

Laboratory Reports

FILE

ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Mike Nickell
Address: 4600 West Wall
Midland Tx 79703

Phone: 915 522-1139 **FAX:** 915 520-4310

Report#/Lab ID#: 126155 **Report Date:** 03/04/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 1
Sample Matrix: water
Date Received: 02/26/2002 **Time:** 09:37
Date Sampled: 02/20/2002 **Time:** 09:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/28/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/02	8260b	J	1.2	96	100.1	97.5
Ethylbenzene	<1	µg/L	1	<1	02/28/02	8260b	---	2.4	93.1	97.1	96.7
m,p-Xylenes	<1	µg/L	1	<1	02/28/02	8260b	---	3	95.2	100.1	98.9
o-Xylene	<1	µg/L	1	<1	02/28/02	8260b	---	2	92.3	96.9	96.4
Toluene	<1	µg/L	1	<1	02/28/02	8260b	---	1.7	104.2	107.4	106.4

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Mike Nickell	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** MW 1	**Report#/Lab ID#:** 126155 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99	80-120	---
Toluene-d8	8260b	92.6	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 126155 **Matrix:** water
Client: Environmental Tech Group **Attn:** Mike Nickell
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 1

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Mike Nickell
Address: 4600 West Wall
Midland Tx 79703

Phone: 915 522-1139 **FAX:** 915 520-4310

Report#/Lab ID#: 126156 **Report Date:** 03/04/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 3
Sample Matrix: water
Date Received: 02/26/2002 **Time:** 09:37
Date Sampled: 02/20/2002 **Time:** 11:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		03/01/02	8260b	---	---	---	---	---
Benzene	1870	µg/L	10	<10	02/28/02	8260b	---	2.7	74.1	85.3	84.1
Ethylbenzene	1140	µg/L	10	<10	02/28/02	8260b	---	0.6	97.3	104.3	104.6
m,p-Xylenes	43.3	µg/L	1	<1	03/01/02	8260b	---	0	101.4	104.8	105.3
o-Xylene	<1	µg/L	1	<1	03/01/02	8260b	J	0.2	97.5	99.7	99.2
Toluene	<1	µg/L	1	<1	03/01/02	8260b	---	2.4	79.1	84.1	84.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Mike Nickell	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** MW 3	**Report#/Lab ID#:** 126156 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.8	80-120	---
Toluene-d8	8260b	99.3	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 126156 **Matrix:** water
Client: Environmental Tech Group **Attn:** Mike Nickell
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 3

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
o-Xylene	J	See J-flag discussion above.

Notes:

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Client: Environmental Tech Group
Attn: Mike Nickell
Address: 4600 West Wall
Midland Tx 79703

Phone: 915 522-1139 **FAX:** 915 520-4310

Report#/Lab ID#: 126157 **Report Date:** 03/04/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 4
Sample Matrix: water
Date Received: 02/26/2002 **Time:** 09:37
Date Sampled: 02/20/2002 **Time:** 10:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/28/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/02	8260b	J	1.2	96	100.1	97.5
Ethylbenzene	<1	µg/L	1	<1	02/28/02	8260b	---	2.4	93.1	97.1	96.7
m,p-Xylenes	<1	µg/L	1	<1	02/28/02	8260b	---	3	95.2	100.1	98.9
o-Xylene	<1	µg/L	1	<1	02/28/02	8260b	---	2	92.3	96.9	96.4
Toluene	<1	µg/L	1	<1	02/28/02	8260b	---	1.7	104.2	107.4	106.4

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Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Mike Nickell	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** MW 4	**Report#/Lab ID#:** 126157 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	104	80-120	---
Toluene-d8	8260b	94.6	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 126157 **Matrix:** water
Client: Environmental Tech Group **Attn:** Mike Nickell
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 4

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Mike Nickell
Address: 4600 West Wall
Midland Tx 79703

Phone: 915 522-1139 **FAX:** 915 520-4310

Report#/Lab ID#: 126158 **Report Date:** 03/04/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 5
Sample Matrix: water
Date Received: 02/26/2002 **Time:** 09:37
Date Sampled: 02/20/2002 **Time:** 10:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/28/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/02	8260b	---	1.2	96	100.1	97.5
Ethylbenzene	<1	µg/L	1	<1	02/28/02	8260b	---	2.4	93.1	97.1	96.7
m,p-Xylenes	<1	µg/L	1	<1	02/28/02	8260b	---	3	95.2	100.1	98.9
o-Xylene	<1	µg/L	1	<1	02/28/02	8260b	---	2	92.3	96.9	96.4
Toluene	<1	µg/L	1	<1	02/28/02	8260b	---	1.7	104.2	107.4	106.4

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Respectfully Submitted,

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Mike Nickell

Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 5

Report#/Lab ID#: 126158
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	102	80-120	---
Toluene-d8	8260b	93.5	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

ANALYSYS INC.

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Client: Environmental Tech Group
Attn: Mike Nickell
Address: 4600 West Wall
Midland Tx 79703

Phone: 915 522-1139 **FAX:** 915 520-4310

Report#/Lab ID#: 126159 **Report Date:** 03/04/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 7
Sample Matrix: water
Date Received: 02/26/2002 **Time:** 09:37
Date Sampled: 02/20/2002 **Time:** 10:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/28/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/02	8260b	---	2.7	74.1	85.3	84.1
Ethylbenzene	<1	µg/L	1	<1	02/28/02	8260b	---	0.6	97.3	104.3	104.6
m,p-Xylenes	<1	µg/L	1	<1	02/28/02	8260b	---	0	101.4	104.8	105.3
o-Xylene	<1	µg/L	1	<1	02/28/02	8260b	---	0.2	97.5	99.7	99.2
Toluene	<1	µg/L	1	<1	02/28/02	8260b	---	2.4	79.1	84.1	84.2

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Mike Nickell	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** MW 7	**Report#/Lab ID#:** 126159 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	85.9	80-120	---
Toluene-d8	8260b	97.3	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Mike Nickell
Address: 4600 West Wall
Midland Tx 79703

Phone: 915 522-1139 **FAX:** 915 520-4310

Report#/Lab ID#: 126160 **Report Date:** 03/04/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 8
Sample Matrix: water
Date Received: 02/26/2002 **Time:** 09:37
Date Sampled: 02/20/2002 **Time:** 09:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/28/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/02	8260b	---	2.7	74.1	85.3	84.1
Ethylbenzene	<1	µg/L	1	<1	02/28/02	8260b	---	0.6	97.3	104.3	104.6
m,p-Xylenes	<1	µg/L	1	<1	02/28/02	8260b	---	0	101.4	104.8	105.3
o-Xylene	<1	µg/L	1	<1	02/28/02	8260b	---	0.2	97.5	99.7	99.2
Toluene	<1	µg/L	1	<1	02/28/02	8260b	---	2.4	79.1	84.1	84.2

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Mike Nickell	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** MW 8	**Report#/Lab ID#:** 126160 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	89.2	80-120	---
Toluene-d8	8260b	100	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Mike Nickell
Address: 4600 West Wall
Midland Tx 79703

Phone: 915 522-1139 **FAX:** 915 520-4310

Report#/Lab ID#: 126161 **Report Date:** 03/04/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: EB 1
Sample Matrix: water
Date Received: 02/26/2002 **Time:** 09:37
Date Sampled: 02/20/2002 **Time:** 11:33

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/28/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/02	8260b	---	2.7	74.1	85.3	84.1
Ethylbenzene	<1	µg/L	1	<1	02/28/02	8260b	---	0.6	97.3	104.3	104.6
m,p-Xylenes	<1	µg/L	1	<1	02/28/02	8260b	---	0	101.4	104.8	105.3
o-Xylene	<1	µg/L	1	<1	02/28/02	8260b	---	0.2	97.5	99.7	99.2
Toluene	<1	µg/L	1	<1	02/28/02	8260b	---	2.4	79.1	84.1	84.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Mike Nickell	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** EB 1	**Report#/Lab ID#:** 126161 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	85.7	80-120	---
Toluene-d8	8260b	99.6	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

COC #28

CHAIN-OF-CUSTODY

ANALYSYS INC.
4221 Freidrich Lane, Suite 100, Austin, TX 78744
Phone: (512) 444-5806
Fax: (512) 417-1766

Send Reports To:
Company Name E.T.G.E.
Address 4600 WEST WALL
City MIDLAND State TX Zip 79703
ATTN: MIKE NICHELL
Phone (915) 522 1139 Fax (915) 520-4310

Bill to (if different):
Company Name EOTT
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: HDO 90-23 Sampler: Simon Casas
EOT 2019 C

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8021B	Comments
MW 1	2.20.02	9:30	2		X		126155	X	
MW 3	2.20.02	11:15					126156		
MW 4	2.20.02	10:40					126157		
MW 5	2.20.02	10:25					126158		
MW 7	2.20.02	10:55					126159		
MW 8	2.20.02	9:50					126160		
EB 1	2.20.02	11:32	↓		↓		126161	↓	

(1) Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to [illegible] or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Simon Casas	ETGE	2-25-02	1200	Melanie Humphrey	ASI	2/26/02	0937

Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.

ANALYSYS INC.

COPY

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 131013 **Report Date:** 07/03/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 1
Sample Matrix: water
Date Received: 06/28/2002 **Time:** 10:30
Date Sampled: 06/25/2002 **Time:** 09:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		07/02/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/02/02	8260b	---	8	92.9	91.7	98
Ethylbenzene	<1	µg/L	1	<1	07/02/02	8260b	---	0.1	104.4	104.8	110.6
m,p-Xylenes	<1	µg/L	1	<1	07/02/02	8260b	---	0.7	104.5	105.1	110.5
o-Xylene	<1	µg/L	1	<1	07/02/02	8260b	---	2.7	107.3	106	111.9
Toluene	<1	µg/L	1	<1	07/02/02	8260b	---	8.9	95.3	93.6	98.3

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** MW 1	**Report#/Lab ID#:** 131013 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	93.2	80-120	---
Toluene-d8	8260b	97.8	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 131014 **Report Date:** 07/03/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 3
Sample Matrix: water
Date Received: 06/28/2002 **Time:** 10:30
Date Sampled: 06/25/2002 **Time:** 10:49

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		07/02/02	8260b	---	---	---	---	---
Benzene	1800	µg/L	100	<100	07/02/02	8260b	---	8	92.9	91.7	98
Ethylbenzene	1100	µg/L	100	<100	07/02/02	8260b	---	0.1	104.4	104.8	110.6
m,p-Xylenes	471	µg/L	100	<100	07/02/02	8260b	---	0.7	104.5	105.1	110.5
o-Xylene	<1	µg/L	1	<1	07/02/02	8260b	J	2.7	107.3	106	111.9
Toluene	<1	µg/L	1	<1	07/02/02	8260b	---	8.9	95.3	93.6	98.3

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** MW 3	**Report#/Lab ID#:** 131014 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.4	80-120	---
Toluene-d8	8260b	97.9	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 131014 **Matrix:** water
Client: *Environmental Tech Group* ***Attn:*** *Ken Dutton*
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 3

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
o-Xylene	J	See J-flag discussion above.

Notes: _____

_____

_____

ANALYSYS inc.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 131015 **Report Date:** 07/03/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 4
Sample Matrix: water
Date Received: 06/28/2002 **Time:** 10:30
Date Sampled: 06/25/2002 **Time:** 09:59

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		07/02/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/02/02	8260b	---	8	92.9	91.7	98
Ethylbenzene	<1	µg/L	1	<1	07/02/02	8260b	---	0.1	104.4	104.8	110.6
m,p-Xylenes	<1	µg/L	1	<1	07/02/02	8260b	---	0.7	104.5	105.1	110.5
o-Xylene	<1	µg/L	1	<1	07/02/02	8260b	---	2.7	107.3	106	111.9
Toluene	<1	µg/L	1	<1	07/02/02	8260b	---	8.9	95.3	93.6	98.3

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** MW 4	**Report#/Lab ID#:** 131015 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	114	80-120	---
Toluene-d8	8260b	107	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 131016 **Report Date:** 07/03/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 5
Sample Matrix: water
Date Received: 06/28/2002 **Time:** 10:30
Date Sampled: 06/25/2002 **Time:** 09:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		07/02/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/02/02	8260b	---	8	92.9	91.7	98
Ethylbenzene	<1	µg/L	1	<1	07/02/02	8260b	---	0.1	104.4	104.8	110.6
m,p-Xylenes	<1	µg/L	1	<1	07/02/02	8260b	---	0.7	104.5	105.1	110.5
o-Xylene	<1	µg/L	1	<1	07/02/02	8260b	---	2.7	107.3	106	111.9
Toluene	<1	µg/L	1	<1	07/02/02	8260b	---	8.9	95.3	93.6	98.3

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** MW 5	**Report#/Lab ID#:** 131016 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	103	80-120	---
Toluene-d8	8260b	97.7	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 131017 **Report Date:** 07/03/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 7
Sample Matrix: water
Date Received: 06/28/2002 **Time:** 10:30
Date Sampled: 06/25/2002 **Time:** 10:21

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		07/02/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/02/02	8260b	---	8	92.9	91.7	98
Ethylbenzene	<1	µg/L	1	<1	07/02/02	8260b	---	0.1	104.4	104.8	110.6
m,p-Xylenes	<1	µg/L	1	<1	07/02/02	8260b	---	0.7	104.5	105.1	110.5
o-Xylene	<1	µg/L	1	<1	07/02/02	8260b	---	2.7	107.3	106	111.9
Toluene	<1	µg/L	1	<1	07/02/02	8260b	---	8.9	95.3	93.6	98.3

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** MW 7	**Report#/Lab ID#:** 131017 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.5	80-120	---
Toluene-d8	8260b	96.8	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 131018 **Report Date:** 07/03/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: MW 8
Sample Matrix: water
Date Received: 06/28/2002 **Time:** 10:30
Date Sampled: 06/25/2002 **Time:** 09:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		07/02/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/02/02	8260b	---	8	92.9	91.7	98
Ethylbenzene	<1	µg/L	1	<1	07/02/02	8260b	---	0.1	104.4	104.8	110.6
m,p-Xylenes	<1	µg/L	1	<1	07/02/02	8260b	---	0.7	104.5	105.1	110.5
o-Xylene	<1	µg/L	1	<1	07/02/02	8260b	---	2.7	107.3	106	111.9
Toluene	<1	µg/L	1	<1	07/02/02	8260b	---	8.9	95.3	93.6	98.3

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS Inc.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** MW 8	**Report#/Lab ID#:** 131018 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	92.8	80-120	---
Toluene-d8	8260b	97.4	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

ANALYSYS inc.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 131019 **Report Date:** 07/03/02
Project ID: HDO 90-23 EOT 2019C
Sample Name: EB 1
Sample Matrix: water
Date Received: 06/28/2002 **Time:** 10:30
Date Sampled: 06/25/2002 **Time:** 11:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		07/02/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/02/02	8260b	---	8	92.9	91.7	98
Ethylbenzene	<1	µg/L	1	<1	07/02/02	8260b	---	0.1	104.4	104.8	110.6
m,p-Xylenes	<1	µg/L	1	<1	07/02/02	8260b	---	0.7	104.5	105.1	110.5
o-Xylene	<1	µg/L	1	<1	07/02/02	8260b	---	2.7	107.3	106	111.9
Toluene	<1	µg/L	1	<1	07/02/02	8260b	---	8.9	95.3	93.6	98.3

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EOT 2019C **Sample Name:** EB 1	**Report#/Lab ID#:** 131019 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	89.5	80-120	---
Toluene-d8	8260b	98.3	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

COC: 098

2734

CHAIN-OF-CUSTODY

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
Phone: (512) 444-5896
Fax: (512) 447-4366

Send Reports To:
Company Name ETGI
Address 2540 W MARLAND
City HOBBS State NM Zip 88240
ATTN: KEN DUTTON
Phone (505) 392-4182 Fax (505) 397-4701

Bill to (if different):
Company Name EOTT
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: HDO 96-23 EOT 2919C Sampler: Simon Casas

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8021B	Comments
mw 1	6-25	0900	2		X		131013	X	
mw 3		1049					131014		
mw 4		0959					131015		
mw 5		0940					131016		
mw 7		1021					131017		
mw 8		0928					131018		
EB 1	↓	1100	↓		↓		131019	↓	

(Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's standard reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASP+10 list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 4.0 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Simon Casas	ETGI	6/27/02	1200	Melanie Humphrey	ASI	6/28/02	10:30

ANALYSYS INC.

3512 Montopolis Dr., Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 133715 **Report Date:** 09/24/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 1
Sample Matrix: water
Date Received: 09/18/2002 **Time:** 10:45
Date Sampled: 09/17/2002 **Time:** 09:22

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		09/20/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/20/02	8260b	---	2.4	94.4	90.9	127.3
Ethylbenzene	<1	µg/L	1	<1	09/20/02	8260b	---	2.5	103.5	100.6	95.9
m,p-Xylenes	<1	µg/L	1	<1	09/20/02	8260b	---	3.6	101.8	102.7	93.4
o-Xylene	<1	µg/L	1	<1	09/20/02	8260b	---	4.9	103.5	102.8	92.9
Toluene	<1	µg/L	1	<1	09/20/02	8260b	---	1.6	96	93.6	97.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EO 2019 **Sample Name:** MW 1	**Report#/Lab ID#:** 133715 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	89.6	80-120	---
Toluene-d8	8260b	101	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 133716 **Report Date:** 09/24/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 3
Sample Matrix: water
Date Received: 09/18/2002 **Time:** 10:45
Date Sampled: 09/17/2002 **Time:** 11:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		09/20/02	8260b	---	---	---	---	---
Benzene	1960	µg/L	100	<100	09/23/02	8260b	---	2.4	94.4	90.9	127.3
Ethylbenzene	1310	µg/L	100	<100	09/23/02	8260b	---	2.5	103.5	100.6	95.9
m,p-Xylenes	18.3	µg/L	1	<1	09/20/02	8260b	---	3.6	101.8	102.7	93.4
o-Xylene	<1	µg/L	1	<1	09/20/02	8260b	---	4.9	103.5	102.8	92.9
Toluene	<1	µg/L	1	<1	09/20/02	8260b	---	1.6	96	93.6	97.2

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Client: Environmental Tech Group	**Project ID:** HDO 90-23 EO 2019	**Report#/Lab ID#:** 133716
Attn: Ken Dutton	**Sample Name:** MW 3	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	92.3	80-120	---
Toluene-d8	8260b	103	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 133717 **Report Date:** 09/24/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 4
Sample Matrix: water
Date Received: 09/18/2002 **Time:** 10:45
Date Sampled: 09/17/2002 **Time:** 10:37

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		09/20/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/20/02	8260b	---	2.4	94.4	90.9	127.3
Ethylbenzene	<1	µg/L	1	<1	09/20/02	8260b	---	2.5	103.5	100.6	95.9
m,p-Xylenes	<1	µg/L	1	<1	09/20/02	8260b	---	3.6	101.8	102.7	93.4
o-Xylene	<1	µg/L	1	<1	09/20/02	8260b	---	4.9	103.5	102.8	92.9
Toluene	<1	µg/L	1	<1	09/20/02	8260b	---	1.6	96	93.6	97.2

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Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EO 2019 **Sample Name:** MW 4	**Report#/Lab ID#:** 133717 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	92.8	80-120	---
Toluene-d8	8260b	101	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 133718 **Report Date:** 09/24/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 5
Sample Matrix: water
Date Received: 09/18/2002 **Time:** 10:45
Date Sampled: 09/17/2002 **Time:** 10:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		09/20/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/20/02	8260b	---	2.4	94.4	90.9	127.3
Ethylbenzene	<1	µg/L	1	<1	09/20/02	8260b	---	2.5	103.5	100.6	95.9
m,p-Xylenes	<1	µg/L	1	<1	09/20/02	8260b	---	3.6	101.8	102.7	93.4
o-Xylene	<1	µg/L	1	<1	09/20/02	8260b	---	4.9	103.5	102.8	92.9
Toluene	<1	µg/L	1	<1	09/20/02	8260b	---	1.6	96	93.6	97.2

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Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EO 2019 **Sample Name:** MW 5	**Report#/Lab ID#:** 133718 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	90.2	80-120	---
Toluene-d8	8260b	101	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 133719 **Report Date:** 09/24/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 7
Sample Matrix: water
Date Received: 09/18/2002 **Time:** 10:45
Date Sampled: 09/17/2002 **Time:** 09:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		09/20/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/20/02	8260b	---	1.4	99.3	114.3	97.7
Ethylbenzene	<1	µg/L	1	<1	09/20/02	8260b	---	1	103.1	105.7	89.3
m,p-Xylenes	<1	µg/L	1	<1	09/20/02	8260b	---	1.6	97.4	99.6	90.7
o-Xylene	<1	µg/L	1	<1	09/20/02	8260b	---	1	97	100.3	97.7
Toluene	<1	µg/L	1	<1	09/20/02	8260b	---	5	102.1	118.2	107

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EO 2019 **Sample Name:** MW 7	**Report#/Lab ID#:** 133719 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	118	80-120	---
Toluene-d8	8260b	100	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

AnalySys Inc.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 133720 **Report Date:** 09/24/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 8
Sample Matrix: water
Date Received: 09/18/2002 **Time:** 10:45
Date Sampled: 09/17/2002 **Time:** 09:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		09/20/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/20/02	8260b	---	1.4	99.3	114.3	97.7
Ethylbenzene	<1	µg/L	1	<1	09/20/02	8260b	---	1	103.1	105.7	89.3
m,p-Xylenes	<1	µg/L	1	<1	09/20/02	8260b	---	1.6	97.4	99.6	90.7
o-Xylene	<1	µg/L	1	<1	09/20/02	8260b	---	1	97	100.3	97.7
Toluene	<1	µg/L	1	<1	09/20/02	8260b	---	5	102.1	118.2	107

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Richard Laster

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1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M =Matrix interference.

ANALYSIS INC.

3512 Montopolis Dr., Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EO 2019 **Sample Name:** MW 8	**Report#/Lab ID#:** 133720 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	116	80-120	---
Toluene-d8	8260b	95.6	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 133721 **Report Date:** 09/24/02
Project ID: HDO 90-23 EO 2019
Sample Name: EB 1
Sample Matrix: water
Date Received: 09/18/2002 **Time:** 10:45
Date Sampled: 09/17/2002 **Time:** 11:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		09/20/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/20/02	8260b	---	1.4	99.3	114.3	97.7
Ethylbenzene	<1	µg/L	1	<1	09/20/02	8260b	---	1	103.1	105.7	89.3
m,p-Xylenes	<1	µg/L	1	<1	09/20/02	8260b	---	1.6	97.4	99.6	90.7
o-Xylene	<1	µg/L	1	<1	09/20/02	8260b	---	1	97	100.3	97.7
Toluene	<1	µg/L	1	<1	09/20/02	8260b	---	5	102.1	118.2	107

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EO 2019 **Sample Name:** EB 1	**Report#/Lab ID#:** 133721 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	115	80-120	---
Toluene-d8	8260b	97.4	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Coc 154 3914

CHAIN OF CUSTODY

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
Phone (512) 444-5896
Fax (512) 447-4766

Send Reports To:
Company Name ETGI
Address 2540 W Marland
City Hobbs State NM Zip 88240
ATTN: Ben Dutton
Phone (505) 397-4882 Fax (505) 397-4701

Bill to (if different):
Company Name EOTT
Address
City State Zip
ATTN:
Phone Fax

Rush status (must be confirmed with lab mgr.):
Project Name/PO#: HDO 90-23 E02019 Sampler: Simon Casas

Analyses Requested (1)
Please attach explanation of formats as required

Client Sample No. Description Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8021B							Comments
MW 1	9/17/02	0922	2		X		133715	X							
MW 3	↓	1105	↓		↓		133716	↓							
MW 4	↓	1037	↓		↓		133717	↓							
MW 5	↓	1015	↓		↓		133718	↓							
MW 7	↓	0900	↓		↓		133719	↓							
MW 8	↓	0945	↓		↓		133720	↓							
EB 1	↓	1120	↓		↓		133721	↓							

(1) Unless specifically requested otherwise on this Chain of Custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's method detection limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain of custody or attached to this chain of custody, ASI's list will be used at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 33°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Simon Casas	ETGI	9/17/02	1600	Melanie Humphrey	ASI	9/18/02	8:45

(Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.)

FILE

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 136762 **Report Date:** 12/13/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 1
Sample Matrix: water
Date Received: 11/25/2002 **Time:** 08:00
Date Sampled: 11/20/2002 **Time:** 09:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
A/BN Extraction-PAH	---	---	---	---	11/27/02	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	11/26/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	11/26/02	3015	---	---	---	---	---
Metals Dig.-HNO3*filtered	---	---	---	---	11/27/02	3005A	---	---	---	---	---
Total dissolved solids	**475**	mg/L	1	<1	11/26/02	160.1	---	8.53	-NA-	-NA-	-NA-
Aluminum/ICP	**1.25**	mg/L	0.2	<0.2	11/26/02	6010 & 200.7	---	0.17	98.7	101.15	97.8
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	J	1.49	102.3	102.28	101.49
Barium/ICP	**0.116**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.28	99.52	100.1	98.9
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/26/02	6010 & 200.7	---	0.45	98.66	100.9	98.31
Boron/ICP	**0.406**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.52	102.54	101.6	100.13
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/26/02	6010 & 200.7	J	1.73	101.75	103.4	103.33
Calcium/ICP*filtered	**36.8**	mg/L	10	<10	12/12/02	6010 & 200.7	---	1.18	83.03	102.26	84.01
Chromium/ICP	<0.01	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	J	0.85	100.22	100.3	121.96
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	1.5	97.36	102.7	103.3
Copper/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	J	0.13	102	102.24	99.64
Iron/ICP	**0.366**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.41	100.86	101.06	105.77
Lead/ICP	**0.0246**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	2.03	96.42	103.04	103.2
Magnesium/ICP*filtered	**13.3**	mg/L	5	<5	12/12/02	6010 & 200.7	---	0.41	84.83	99.72	85.77
Manganese/ICP	**0.0175**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.15	98.44	97.64	97.77
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/27/02	245.1&7470	---	5.31	111.11	115	102.67
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	J	1.23	99.26	103	102.49

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group	**Project ID:** HDO 90-23 EO 2019	**Report#/Lab ID#:** 136762
Attn: Ken Dutton	**Sample Name:** MW 1	**Sample Matrix:** water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	1.79	97.88	103.9	104.01
Potassium/AA*filtered	**2.86**	mg/L	0.25	<0.25	12/02/02	258.1&7610	---	3.89	106.18	109.99	104.5
Selenium/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	J	1.37	101.93	102.54	102.05
Silver/GFAA	<0.002	mg/L	0.002	<0.002	11/27/02	272.2&7761	---	1.68	108.26	92.5	119
Sodium/ICP*filtered	**67.8**	mg/L	0.5	<0.5	12/12/02	6010 & 200.7	---	0.37	87.26	99.88	88.11
Strontium/ICP	**1.29**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.09	103.48	101.54	105.43
Tin/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	1.87	97.87	103.72	102.34
Vanadium/ICP	**0.0828**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.56	104.58	103.48	111.85
Zinc/ICP	**0.0606**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	1.06	99.69	103.3	103.28
Alkalinity, bicarbonate	**220**	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Chloride	**19**	mg/L	0.5	<0.5	12/02/02	325.2&9251	---	0	104.83	111.15	95.83
Sulfate	**47.7**	mg/L	1	<1	12/03/02	375.4&9038	---	0.9	119.71	95.83	96.8
Extractable organics-PAH	---	---	---	---	12/11/02	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		11/27/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/27/02	8260b	---	1.9	72	94.2	78.7
Ethylbenzene	<1	µg/L	1	<1	11/27/02	8260b	---	2.1	113.1	110.3	111.5
m,p-Xylenes	<1	µg/L	1	<1	11/27/02	8260b	---	1.7	110.7	104.4	106.5
o-Xylene	<1	µg/L	1	<1	11/27/02	8260b	---	0.6	116.1	109.4	113.5
Toluene	<1	µg/L	1	<1	11/27/02	8260b	---	0.2	96.1	104.8	99.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	1.2	63.3	104.4	66.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	0.4	71.2	112.6	76.6
Anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	8.3	77.4	111.2	73.4
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	9	85.4	101.1	80.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	15.3	80.6	104.9	74.9
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	25	87	108.2	73.4
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	16.4	74.8	88.6	71.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	6	76.6	102.2	71.9
Chrysene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	J	10.2	84.9	99.1	84.9
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	16.9	79.3	93.1	70.7
Fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	12.4	80.2	105.6	72.5
Fluorene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	4.6	65.6	106	62

ANALYSIS INC

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: HDO 90-23 EO 2019
Sample Name: MW 1

Report#/Lab ID#: 136762
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	18.1	78.2	92.5	70.6
Naphthalene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	2.8	61.5	104.2	52.5
Phenanthrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	7.7	76.1	102.3	71.7
Pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	8.4	68	87.8	68.1

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Client: Environmental Tech Group	**Project ID:** HDO 90-23 EO 2019	**Report#/Lab ID#:** 136762
Attn: Ken Dutton	**Sample Name:** MW 1	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
1,2-Dichloroethane-d4	8260b	86.1	80-120	---
Toluene-d8	8260b	99.1	88-110	---
2-Fluorobiphenyl	8270c	44.3	43-116	---
Nitrobenzene-d5	8270c	59	35-114	---
Terphenyl-d14	8270c	49.8	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 136762 **Matrix:** water
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: HDO 90-23 EO 2019
Sample Name: MW 1

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Arsenic/ICP	J	See J-flag discussion above.
Cadmium/ICP	J	See J-flag discussion above.
Chromium/ICP	J	See J-flag discussion above.
Copper/ICP	J	See J-flag discussion above.
Molybdenum/ICP	J	See J-flag discussion above.
Selenium/ICP	J	See J-flag discussion above.
Chrysene	J	See J-flag discussion above.

Notes:

ANALYSYS INC

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Client: Environmental Tech Group
Attn: *Ken Dutton*
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 136763 **Report Date:** 12/13/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 3
Sample Matrix: water
Date Received: 11/25/2002 **Time:** 08:00
Date Sampled: 11/20/2002 **Time:** 12:25

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
A/BN Extraction-PAH	---	---	---	---	11/27/02	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	11/26/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	11/26/02	3015	---	---	---	---	---
Metals Dig.-HNO3*filtered	---	---	---	---	11/27/02	3005A	---	---	---	---	---
Total dissolved solids	**9000**	mg/L	1	<1	11/26/02	160.1	---	8.53	-NA-	-NA-	-NA-
Aluminum/ICP	**5.1**	mg/L	0.2	<0.2	11/26/02	6010 & 200.7	---	0.17	98.7	101.15	97.8
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	J	1.49	102.3	102.28	101.49
Barium/ICP	**0.828**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.28	99.52	100.1	98.9
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/26/02	6010 & 200.7	---	0.45	98.66	100.9	98.31
Boron/ICP	**6.45**	mg/L	0.2	<0.2	11/26/02	6010 & 200.7	---	0.52	102.54	101.6	100.13
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/26/02	6010 & 200.7	---	1.73	101.75	103.4	103.33
Calcium/ICP*filtered	**115**	mg/L	10	<10	12/12/02	6010 & 200.7	---	1.18	83.03	102.26	84.01
Chromium/ICP	<0.01	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.85	100.22	100.3	121.96
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	1.5	97.36	102.7	103.3
Copper/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.13	102	102.24	99.64
Iron/ICP	**19.4**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.41	100.86	101.06	105.77
Lead/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	2.03	96.42	103.04	103.2
Magnesium/ICP*filtered	**247**	mg/L	5	<5	12/12/02	6010 & 200.7	---	0.41	84.83	99.72	85.77
Manganese/ICP	**0.136**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.15	98.44	97.64	97.77
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/27/02	245.1&7470	---	5.31	111.11	115	102.67
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	1.23	99.26	103	102.49

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSIS INC
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: HDO 90-23 EO 2019
Sample Name: MW 3

Report#/Lab ID#: 136763
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	1.79	97.88	103.9	104.01
Potassium/AA*filtered	**71.6**	mg/L	5	<5	12/02/02	258.1&7610	---	3.89	106.18	109.99	104.5
Selenium/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	J	1.37	101.93	102.54	102.05
Silver/GFAA	<0.002	mg/L	0.002	<0.002	11/27/02	272.2&7761	---	1.68	108.26	92.5	119
Sodium/ICP*filtered	**2800**	mg/L	50	<50	12/12/02	6010 & 200.7	---	0.37	87.26	99.88	88.11
Strontium/ICP	**7.49**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.09	103.48	101.54	105.43
Tin/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	1.87	97.87	103.72	102.34
Vanadium/ICP	**0.0471**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.56	104.58	103.48	111.85
Zinc/ICP	**0.0738**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	1.06	99.69	103.3	103.28
Alkalinity, bicarbonate	**1700**	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Chloride	**3950**	mg/L	50	<50	12/02/02	325.2&9251	---	0	104.83	111.15	95.83
Sulfate	**521**	mg/L	20	<20	12/03/02	375.4&9038	---	0.9	119.71	95.83	96.8
Extractable organics-PAH	---	---	---	---	12/12/02	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		11/27/02	8260b	---	---	---	---	---
Benzene	**12.30**	µg/L	100	<100	12/03/02	8260b	---	0.8	70.6	92.2	79.4
Ethylbenzene	**1330**	µg/L	100	<100	12/03/02	8260b	---	0.8	109.8	106.2	120.9
m,p-Xylenes	**26.7**	µg/L	1	<1	11/27/02	8260b	---	0.8	106.4	103.9	117.7
o-Xylene	**1.21**	µg/L	1	<1	11/27/02	8260b	---	1.2	112.1	108.6	122.9
Toluene	<1	µg/L	1	<1	11/27/02	8260b	---	1.2	91.4	104.7	101.5
Acenaphthene	**0.162**	µg/L	0.05	<0.05	12/12/02	8270c	---	1.2	63.3	104.4	66.2
Acenaphthylene	**0.226**	µg/L	0.05	<0.05	12/12/02	8270c	---	0.4	71.2	112.6	76.6
Anthracene	**0.97**	µg/L	0.05	<0.05	12/12/02	8270c	---	8.3	77.4	111.2	73.4
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	9	85.4	101.1	80.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	15.3	80.6	104.9	74.9
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	25	87	108.2	73.4
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	16.4	74.8	88.6	71.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	6	76.6	102.2	71.9
Chrysene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	10.2	84.9	99.1	84.9
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	J	16.9	79.3	93.1	70.7
Fluoranthene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	J	12.4	80.2	105.6	72.5
Fluorene	**1.42**	µg/L	0.05	<0.05	12/12/02	8270c	---	4.6	65.6	106	62

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: HDO 90-23 EO 2019
Sample Name: MW 3

Report#/Lab ID#: 136763
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	J	18.1	78.2	92.5	70.6
Naphthalene	**0.556**	µg/L	0.05	<0.05	12/12/02	8270c	---	2.8	61.5	104.2	52.5
Phenanthrene	**0.936**	µg/L	0.05	<0.05	12/12/02	8270c	---	7.7	76.1	102.3	71.7
Pyrene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	J	8.4	68	87.8	68.1

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Client: Environmental Tech Group	**Project ID:** HDO 90-23 EO 2019	**Report#/Lab ID#:** 136763
Attn: Ken Dutton	**Sample Name:** MW 3	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
1,2-Dichloroethane-d4	8260b	87.2	80-120	---
Toluene-d8	8260b	101	88-110	---
2-Fluorobiphenyl	8270c	44.5	43-116	---
Nitrobenzene-d5	8270c	54.2	35-114	---
Terphenyl-d14	8270c	56.4	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 136763 **Matrix:** water
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: HDO 90-23 EO 2019
Sample Name: MW 3

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Arsenic/ICP	J	See J-flag discussion above.
Selenium/ICP	J	See J-flag discussion above.
Dibenz[a,h]anthracene	J	See J-flag discussion above.
Fluoranthene	J	See J-flag discussion above.
Indeno[1,2,3-cd]pyrene	J	See J-flag discussion above.
Pyrene	J	See J-flag discussion above.

Notes:

ANALYSYS INC

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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 136764 **Report Date:** 12/13/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 4
Sample Matrix: water
Date Received: 11/25/2002 **Time:** 08:00
Date Sampled: 11/20/2002 **Time:** 09:41

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
A/BN Extraction-PAH	---	---	---	---	11/27/02	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	11/26/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	11/26/02	3015	---	---	---	---	---
Metals Dig.-HNO3*filtered	---	---	---	---	11/27/02	3005A	---	---	---	---	---
Total dissolved solids	**512**	mg/L	1	<1	11/26/02	160.1	---	8.53	-NA-	-NA-	-NA-
Aluminum/ICP	**4.06**	mg/L	0.2	<0.2	11/26/02	6010 & 200.7	---	0.17	98.7	101.15	97.8
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	1.49	102.3	102.28	101.49
Barium/ICP	**0.212**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.28	99.52	100.1	98.9
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/26/02	6010 & 200.7	---	0.45	98.66	100.9	98.31
Boron/ICP	**0.169**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.52	102.54	101.6	100.13
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/26/02	6010 & 200.7	---	1.73	101.75	103.4	103.33
Calcium/ICP*filtered	**54.3**	mg/L	10	<10	12/12/02	6010 & 200.7	---	1.18	83.03	102.26	84.01
Chromium/ICP	<0.01	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.85	100.22	100.3	121.96
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	1.5	97.36	102.7	103.3
Copper/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.13	102	102.24	99.64
Iron/ICP	**2.62**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.41	100.86	101.06	105.77
Lead/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	2.03	96.42	103.04	103.2
Magnesium/ICP*filtered	**26.6**	mg/L	5	<5	12/12/02	6010 & 200.7	---	0.41	84.83	99.72	85.77
Manganese/ICP	**0.0498**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.15	98.44	97.64	97.77
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/27/02	245.1&7470	---	5.31	111.11	115	102.67
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	1.23	99.26	103	102.49

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: HDO 90-23 EO 2019
Sample Name: MW 4

Report#/Lab ID#: 136764
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	1.79	97.88	103.9	104.01
Potassium/AA*filtered	**3.64**	mg/L	0.25	<0.25	12/02/02	258.1&7610	---	3.89	106.18	109.99	104.5
Selenium/ICP	**0.0541**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	1.37	101.93	102.54	102.05
Silver/GFAA	<0.002	mg/L	0.002	<0.002	11/27/02	272.2&7761	---	1.68	108.26	92.5	119
Sodium/ICP*filtered	**63.8**	mg/L	0.5	<0.5	12/12/02	6010 & 200.7	---	0.37	87.26	99.88	88.11
Strontium/ICP	**2.14**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.09	103.48	101.54	105.43
Tin/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	1.87	97.87	103.72	102.34
Vanadium/ICP	**0.0881**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.56	104.58	103.48	111.85
Zinc/ICP	**0.0137**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	1.06	99.69	103.3	103.28
Alkalinity, bicarbonate	**180**	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Chloride	**87.5**	mg/L	0.5	<0.5	12/02/02	325.2&9251	---	0	104.83	111.15	95.83
Sulfate	**63.3**	mg/L	20	<20	12/03/02	375.4&9038	---	0.9	119.71	95.83	96.8
Extractable organics-PAH	---	---	---	---	12/11/02	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		11/27/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/27/02	8260b	---	1.9	72	94.2	78.7
Ethylbenzene	<1	µg/L	1	<1	11/27/02	8260b	---	2.1	113.1	110.3	111.5
m,p-Xylenes	<1	µg/L	1	<1	11/27/02	8260b	---	1.7	110.7	104.4	106.5
o-Xylene	<1	µg/L	1	<1	11/27/02	8260b	---	0.6	116.1	109.4	113.5
Toluene	<1	µg/L	1	<1	11/27/02	8260b	---	0.2	96.1	104.8	99.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	1.2	63.3	104.4	66.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	0.4	71.2	112.6	76.6
Anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	8.3	77.4	111.2	73.4
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	J	9	85.4	101.1	80.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	15.3	80.6	104.9	74.9
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	25	87	108.2	73.4
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	16.4	74.8	88.6	71.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	6	76.6	102.2	71.9
Chrysene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	10.2	84.9	99.1	84.9
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	16.9	79.3	93.1	70.7
Fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	12.4	80.2	105.6	72.5
Fluorene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	4.6	65.6	106	62

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: HDO 90-23 EO 2019
Sample Name: MW 4

Report#/Lab ID#: 136764
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	18.1	78.2	92.5	70.6
Naphthalene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	2.8	61.5	104.2	52.5
Phenanthrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	7.7	76.1	102.3	71.7
Pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	8.4	68	87.8	68.1

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Client: Environmental Tech Group	**Project ID:** HDO 90-23 EO 2019	**Report#/Lab ID#:** 136764
Attn: Ken Dutton	**Sample Name:** MW 4	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
1,2-Dichloroethane-d4	8260b	90.1	80-120	---
Toluene-d8	8260b	103	88-110	---
2-Fluorobiphenyl	8270c	43.8	43-116	---
Nitrobenzene-d5	8270c	59.8	35-114	---
Terphenyl-d14	8270c	47.1	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 136764 **Matrix:** water
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: HDO 90-23 EO 2019
Sample Name: MW 4

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzo[a]anthracene	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: *Environmental Tech Group*
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 136765 **Report Date:** 12/13/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 5
Sample Matrix: water
Date Received: 11/25/2002 **Time:** 08:00
Date Sampled: 11/20/2002 **Time:** 10:08

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
A/BN Extraction-PAH	---	---	---	---	11/27/02	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	11/26/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	11/26/02	3015	---	---	---	---	---
Metals Dig.-HNO3*filtered	---	---	---	---	11/27/02	3005A	---	---	---	---	---
Total dissolved solids	**822**	mg/L	1	<1	11/26/02	160.1	---	8.53	-NA-	-NA-	-NA-
Aluminum/ICP	**5.87**	mg/L	0.2	<0.2	11/26/02	6010 & 200.7	---	0.17	98.7	101.15	97.8
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	J	1.49	102.3	102.28	101.49
Barium/ICP	**0.529**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.28	99.52	100.1	98.9
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/26/02	6010 & 200.7	---	0.45	98.66	100.9	98.31
Boron/ICP	**0.372**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.52	102.54	101.6	100.13
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/26/02	6010 & 200.7	---	1.73	101.75	103.4	103.33
Calcium/ICP*filtered	**71.5**	mg/L	10	<10	12/12/02	6010 & 200.7	---	1.18	83.03	102.26	84.01
Chromium/ICP	<0.01	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	J	0.85	100.22	100.3	121.96
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	1.5	97.36	102.7	103.3
Copper/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.13	102	102.24	99.64
Iron/ICP	**3.98**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.41	100.86	101.06	105.77
Lead/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	2.03	96.42	103.04	103.2
Magnesium/ICP*filtered	**32.1**	mg/L	5	<5	12/12/02	6010 & 200.7	---	0.41	84.83	99.72	85.77
Manganese/ICP	**0.0502**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.15	98.44	97.64	97.77
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/27/02	245.1&7470	---	5.31	111.11	115	102.67
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	J	1.23	99.26	103	102.49

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSIS INC.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: HDO 90-23 EO 2019
Sample Name: MW 5

Report#/Lab ID#: 136765
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	1.79	97.88	103.9	104.01
Potassium/AA*filtered	**4.19**	mg/L	0.25	<0.25	12/02/02	258.1&7610	---	3.89	106.18	109.99	104.5
Selenium/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	J	1.37	101.93	102.54	102.05
Silver/GFAA	<0.002	mg/L	0.002	<0.002	11/27/02	272.2&7761	---	1.68	108.26	92.5	119
Sodium/ICP*filtered	**91.9**	mg/L	0.5	<0.5	12/12/02	6010 & 200.7	---	0.37	87.26	99.88	88.11
Strontium/ICP	**3.07**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.09	103.48	101.54	105.43
Tin/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	1.87	97.87	103.72	102.34
Vanadium/ICP	**0.0764**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.56	104.58	103.48	111.85
Zinc/ICP	**0.0162**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	1.06	99.69	103.3	103.28
Alkalinity, bicarbonate	**300**	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Chloride	**149**	mg/L	5	<5	12/02/02	325.2&9251	---	0	104.83	111.15	95.83
Sulfate	**45.4**	mg/L	10	<10	12/03/02	375.4&9038	---	0.9	119.71	95.83	96.8
Extractable organics-PAH	---	---	---	---	12/11/02	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		11/27/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/27/02	8260b	---	1.9	72	94.2	78.7
Ethylbenzene	<1	µg/L	1	<1	11/27/02	8260b	---	2.1	113.1	110.3	111.5
m,p-Xylenes	<1	µg/L	1	<1	11/27/02	8260b	---	1.7	110.7	104.4	106.5
o-Xylene	<1	µg/L	1	<1	11/27/02	8260b	---	0.6	116.1	109.4	113.5
Toluene	<1	µg/L	1	<1	11/27/02	8260b	---	0.2	96.1	104.8	99.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	1.2	63.3	104.4	66.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	0.4	71.2	112.6	76.6
Anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	8.3	77.4	111.2	73.4
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	9	85.4	101.1	80.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	15.3	80.6	104.9	74.9
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	25	87	108.2	73.4
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	16.4	74.8	88.6	71.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	6	76.6	102.2	71.9
Chrysene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	10.2	84.9	99.1	84.9
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	16.9	79.3	93.1	70.7
Fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	12.4	80.2	105.6	72.5
Fluorene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	4.6	65.6	106	62

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: HDO 90-23 EO 2019
Sample Name: MW 5

Report#/Lab ID#: 136765
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	18.1	78.2	92.5	70.6
Naphthalene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	2.8	61.5	104.2	52.5
Phenanthrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	7.7	76.1	102.3	71.7
Pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	8.4	68	87.8	68.1

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Client: Environmental Tech Group	**Project ID:** HDO 90-23 EO 2019	**Report#/Lab ID#:** 136765
Attn: Ken Dutton	**Sample Name:** MW 5	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
1,2-Dichloroethane-d4	8260b	82.9	80-120	---
Toluene-d8	8260b	99.1	88-110	---
2-Fluorobiphenyl	8270c	45.3	43-116	---
Nitrobenzene-d5	8270c	54.3	35-114	---
Terphenyl-d14	8270c	44.4	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 136765 **Matrix:** water
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: HDO 90-23 EO 2019
Sample Name: MW 5

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Arsenic/ICP	J	See J-flag discussion above.
Chromium/ICP	J	See J-flag discussion above.
Molybdenum/ICP	J	See J-flag discussion above.
Selenium/ICP	J	See J-flag discussion above.

Notes:

ANALYSYS INC

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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 136766 **Report Date:** 12/13/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 7
Sample Matrix: water
Date Received: 11/25/2002 **Time:** 08:00
Date Sampled: 11/20/2002 **Time:** 10:53

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
A/BN Extraction-PAH	---	---	---	---	11/27/02	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	11/26/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	11/26/02	3015	---	---	---	---	---
Metals Dig.-HNO3*filtered	---	---	---	---	11/27/02	3005A	---	---	---	---	---
Total dissolved solids	**569**	mg/L	1	<1	11/26/02	160.1	---	8.53	-NA-	-NA-	-NA-
Aluminum/ICP	**9.76**	mg/L	0.2	<0.2	11/26/02	6010 & 200.7	---	0.17	98.7	101.15	97.8
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	1.49	102.3	102.28	101.49
Barium/ICP	**0.425**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.28	99.52	100.1	98.9
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/26/02	6010 & 200.7	---	0.45	98.66	100.9	98.31
Boron/ICP	**0.26**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.52	102.54	101.6	100.13
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/26/02	6010 & 200.7	---	1.73	101.75	103.4	103.33
Calcium/ICP*filtered	**55.7**	mg/L	10	<10	12/12/02	6010 & 200.7	---	1.18	83.03	102.26	84.01
Chromium/ICP	<0.01	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	J	0.85	100.22	100.3	121.96
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	J	1.5	97.36	102.7	103.3
Copper/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	J	0.13	102	102.24	99.64
Iron/ICP	**5.98**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.41	100.86	101.06	105.77
Lead/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	2.03	96.42	103.04	103.2
Magnesium/ICP*filtered	**20.8**	mg/L	5	<5	12/12/02	6010 & 200.7	---	0.41	84.83	99.72	85.77
Manganese/ICP	**0.13**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.15	98.44	97.64	97.77
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/27/02	245.1&7470	---	5.31	111.11	115	102.67
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	J	1.23	99.26	103	102.49

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: HDO 90-23 EO 2019
Sample Name: MW 7

Report#/Lab ID#: 136766
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	J	1.79	97.88	103.9	104.01
Potassium/AA*filtered	**3.36**	mg/L	0.25	<0.25	12/02/02	258.1&7610	---	3.89	106.18	109.99	104.5
Selenium/ICP	**0.0581**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	1.37	101.93	102.54	102.05
Silver/GFAA	<0.002	mg/L	0.002	<0.002	11/27/02	272.2&7761	---	1.68	108.26	92.5	119
Sodium/ICP*filtered	**68.1**	mg/L	0.5	<0.5	12/12/02	6010 & 200.7	---	0.37	87.26	99.88	88.11
Strontium/ICP	**2.2**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.09	103.48	101.54	105.43
Tin/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	1.87	97.87	103.72	102.34
Vanadium/ICP	**0.0933**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.56	104.58	103.48	111.85
Zinc/ICP	**0.0442**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	1.06	99.69	103.3	103.28
Alkalinity, bicarbonate	**180**	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Chloride	**72.1**	mg/L	0.5	<0.5	12/02/02	325.2&9251	---	0	104.83	111.15	95.83
Sulfate	**86.5**	mg/L	10	<10	12/03/02	375.4&9038	---	0.9	119.71	95.83	96.8
Extractable organics-PAH	---	---	---	---	12/11/02	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		11/27/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/27/02	8260b	---	1.9	72	94.2	78.7
Ethylbenzene	<1	µg/L	1	<1	11/27/02	8260b	---	2.1	113.1	110.3	111.5
m,p-Xylenes	<1	µg/L	1	<1	11/27/02	8260b	---	1.7	110.7	104.4	106.5
o-Xylene	<1	µg/L	1	<1	11/27/02	8260b	---	0.6	116.1	109.4	113.5
Toluene	<1	µg/L	1	<1	11/27/02	8260b	---	0.2	96.1	104.8	99.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	1.2	63.3	104.4	66.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	0.4	71.2	112.6	76.6
Anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	8.3	77.4	111.2	73.4
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	9	85.4	101.1	80.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	15.3	80.6	104.9	74.9
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	25	87	108.2	73.4
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	16.4	74.8	88.6	71.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	6	76.6	102.2	71.9
Chrysene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	10.2	84.9	99.1	84.9
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	16.9	79.3	93.1	70.7
Fluoranthene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	12.4	80.2	105.6	72.5
Fluorene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	4.6	65.6	106	62

ANALYSYS INC
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: HDO 90-23 EO 2019
Sample Name: MW 7

Report#/Lab ID#: 136766
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	18.1	78.2	92.5	70.6
Naphthalene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	2.8	61.5	104.2	52.5
Phenanthrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	7.7	76.1	102.3	71.7
Pyrene	<0.05	µg/L	0.05	<0.05	12/11/02	8270c	---	8.4	68	87.8	68.1

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** HDO 90-23 EO 2019 **Sample Name:** MW 7	**Report#/Lab ID#:** 136766 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
1,2-Dichloroethane-d4	8260b	85.3	80-120	---
Toluene-d8	8260b	99.9	88-110	---
2-Fluorobiphenyl	8270c	44	43-116	---
Nitrobenzene-d5	8270c	65.6	35-114	---
Terphenyl-d14	8270c	45.1	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 136766 **Matrix:** water
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: *HDO 90-23 EO 2019*
Sample Name: MW 7

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Chromium/ICP	J	See J-flag discussion above.
Cobalt/ICP	J	See J-flag discussion above.
Copper/ICP	J	See J-flag discussion above.
Molybdenum/ICP	J	See J-flag discussion above.
Nickel/ICP	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 136767 **Report Date:** 12/13/02
Project ID: HDO 90-23 EO 2019
Sample Name: MW 8
Sample Matrix: water
Date Received: 11/25/2002 **Time:** 08:00
Date Sampled: 11/20/2002 **Time:** 11:51

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
A/BN Extraction-PAH	---	---	---	---	11/27/02	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	11/26/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	11/26/02	3015	---	---	---	---	---
Metals Dig.-HNO3*filtered	---	---	---	---	11/27/02	3005A	---	---	---	---	---
Total dissolved solids	**595**	mg/L	1	<1	11/26/02	160.1	---	8.53	-NA-	-NA-	-NA-
Aluminum/ICP	**16.1**	mg/L	0.2	<0.2	11/26/02	6010 & 200.7	---	0.17	98.7	101.15	97.8
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	J	1.49	102.3	102.28	101.49
Barium/ICP	**0.637**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.28	99.52	100.1	98.9
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/26/02	6010 & 200.7	---	0.45	98.66	100.9	98.31
Boron/ICP	**0.298**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.52	102.54	101.6	100.13
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/26/02	6010 & 200.7	---	1.73	101.75	103.4	103.33
Calcium/ICP*filtered	**79.5**	mg/L	10	<10	12/12/02	6010 & 200.7	---	1.18	83.03	102.26	84.01
Chromium/ICP	**0.0123**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.85	100.22	100.3	121.96
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	1.5	97.36	102.7	103.3
Copper/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	J	0.13	102	102.24	99.64
Iron/ICP	**9.62**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.41	100.86	101.06	105.77
Lead/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	2.03	96.42	103.04	103.2
Magnesium/ICP*filtered	**34.1**	mg/L	5	<5	12/12/02	6010 & 200.7	---	0.41	84.83	99.72	85.77
Manganese/ICP	**0.287**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	0.15	98.44	97.64	97.77
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/27/02	245.1&7470	---	5.31	111.11	115	102.67
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	J	1.23	99.26	103	102.49

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: HDO 90-23 EO 2019
Sample Name: MW 8

Report#/Lab ID#: 136767
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	*Result*	*Units*	RQL [5]	*Blank*	*Date*	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	J	1.79	97.88	103.9	104.01
Potassium/AA*filtered	**3.8**	mg/L	0.25	<0.25	12/02/02	258.1&7610	---	3.89	106.18	109.99	104.5
Selenium/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	J	1.37	101.93	102.54	102.05
Silver/GFAA	<0.002	mg/L	0.002	<0.002	11/27/02	272.2&7761	---	1.68	108.26	92.5	119
Sodium/ICP*filtered	**67.1**	mg/L	0.5	<0.5	12/12/02	6010 & 200.7	---	0.37	87.26	99.88	88.11
Strontium/ICP	**3.52**	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	0.09	103.48	101.54	105.43
Tin/ICP	<0.05	mg/L	0.05	<0.05	11/26/02	6010 & 200.7	---	1.87	97.87	103.72	102.34
Vanadium/ICP	**0.108**	mg/L	0.02	<0.02	11/26/02	6010 & 200.7	---	0.56	104.58	103.48	111.85
Zinc/ICP	**0.0647**	mg/L	0.01	<0.01	11/26/02	6010 & 200.7	---	1.06	99.69	103.3	103.28
Alkalinity, bicarbonate	**310**	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	12/04/02	SM2320	---	0	-NA-	-NA-	-NA-
Chloride	**72.6**	mg/L	0.5	<0.5	12/02/02	325.2&9251	---	0	104.83	111.15	95.83
Sulfate	**57**	mg/L	10	<10	12/03/02	375.4&9038	---	0.9	119.71	95.83	96.8
Extractable organics-PAH	---	---	---	---	12/12/02	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		11/27/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/27/02	8260b	---	1.9	72	94.2	78.7
Ethylbenzene	<1	µg/L	1	<1	11/27/02	8260b	---	2.1	113.1	110.3	111.5
m,p-Xylenes	<1	µg/L	1	<1	11/27/02	8260b	---	1.7	110.7	104.4	106.5
o-Xylene	<1	µg/L	1	<1	11/27/02	8260b	---	0.6	116.1	109.4	113.5
Toluene	<1	µg/L	1	<1	11/27/02	8260b	---	0.2	96.1	104.8	99.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	1.2	63.3	104.4	66.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	0.4	71.2	112.6	76.6
Anthracene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	8.3	77.4	111.2	73.4
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	9	85.4	101.1	80.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	15.3	80.6	104.9	74.9
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	25	87	108.2	73.4
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	16.4	74.8	88.6	71.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	6	76.6	102.2	71.9
Chrysene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	J	10.2	84.9	99.1	84.9
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	16.9	79.3	93.1	70.7
Fluoranthene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	12.4	80.2	105.6	72.5
Fluorene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	4.6	65.6	106	62

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: HDO 90-23 EO 2019
Sample Name: MW 8

Report#/Lab ID#: 136767
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	18.1	78.2	92.5	70.6
Naphthalene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	2.8	61.5	104.2	52.5
Phenanthrene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	7.7	76.1	102.3	71.7
Pyrene	<0.05	µg/L	0.05	<0.05	12/12/02	8270c	---	8.4	68	87.8	68.1

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Client: Environmental Tech Group	**Project ID:** HDO 90-23 EO 2019	**Report#/Lab ID#:** 136767
Attn: Ken Dutton	**Sample Name:** MW 8	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
1,2-Dichloroethane-d4	8260b	86.5	80-120	---
Toluene-d8	8260b	96	88-110	---
2-Fluorobiphenyl	8270c	45.4	43-116	---
Nitrobenzene-d5	8270c	69.4	35-114	---
Terphenyl-d14	8270c	60.5	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 136767 **Matrix:** water
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: HDO 90-23 EO 2019
Sample Name: MW 8

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Arsenic/ICP	J	See J-flag discussion above.
Copper/ICP	J	See J-flag discussion above.
Molybdenum/ICP	J	See J-flag discussion above.
Nickel/ICP	J	See J-flag discussion above.
Selenium/ICP	J	See J-flag discussion above.
Chrysene	J	See J-flag discussion above.

Notes: _____

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Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 136768 **Report Date:** 12/13/02
Project ID: HDO 90-23 EO 2019
Sample Name: EB 1
Sample Matrix: water
Date Received: 11/25/2002 **Time:** 08:00
Date Sampled: 11/20/2002 **Time:** 12:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		11/27/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/27/02	8260b	---	1.9	72	94.2	78.7
Ethylbenzene	<1	µg/L	1	<1	11/27/02	8260b	---	2.1	113.1	110.3	111.5
m,p-Xylenes	<1	µg/L	1	<1	11/27/02	8260b	---	1.7	110.7	104.4	106.5
o-Xylene	<1	µg/L	1	<1	11/27/02	8260b	---	0.6	116.1	109.4	113.5
Toluene	<1	µg/L	1	<1	11/27/02	8260b	---	0.2	96.1	104.8	99.8

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

CHAIN-OF-CUSTODY

COC: 198

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name E.T.G.I.
Address 2540 W. Marland
City Hobbs State NM Zip 88240
ATTN: Ken Dutton
Phone 505-397-4882 Fax 505 397 4701

Bill to (if different):
Company Name
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: H00 90-23 EO-2019 Sampler: Marcelo Campos

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8021B	EPH 8100	Cations 6010	Anions 300.0	Metals 6010	TCLP 1311	Comments
mw1	11/20/02	0905	6		X			X						
mw3		1025	6											
mw4		0941	6											
mw5		1008	6											
mw7		1053	6											
mw8		1051	6											
EB-1		1245	2											

1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Marcelo Campos	E.T.G.I.	11/22/02	1230				

Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]