

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

June 21, 2006

Ms. Camille Reynolds
Plains Marketing, L.P.
3112 West Highway 82
Lovington, NM 88260

RE: Plains Marketing, L.P.
Plains EMS No.: 2003-00207
6-Inch Central Battery Idle Line Site
SE/4 NE/4 of Section 5, Township 20 South, Range 37 East
Lea County, New Mexico
NMOCD File Number 1R-0407

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the request for soil and groundwater closure for the above site submitted, on behalf of Plains Marketing, L.P. (Plains) by BBC International and dated June 16, 2006. This request is hereby approved with the following understandings and conditions:

1. Soil samples were taken during the drilling of the borehole and analyses results are as shown in the attachment to the request.
2. Analyses of sidewall samples taken at the site are as shown in the Remediation Work Plan, dated July 2004, and prepared by Nova Safety and Environmental.
3. Plains will backfill the site with clean soil.
4. Plains will plug and abandon the three monitor wells using a slurry containing 3% - 5% bentonite.

NMOCD approval does not relieve Plains of responsibility should its operations at this site prove to have been harmful to public health or the environment. Nor does it relieve Plains of its responsibility to comply with the rules and regulations of any other governmental agency.

If you have any question, contact me at (505) 476-3470 or ed.martin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Ed Martin
Environmental Bureau

Copy: Cliff Brunson, BBC



PHONE (505) 397-6388 • FAX (505) 397-0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

June 16, 2006

Mr. Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

1R-407

**RE: Plains Marketing, L. P.
Plains EMS No.: 2003-00207
6 Inch Central Battery Idle Line
SE ¼ of the NE ¼ of Section 5, T 20S, R37E, Lea County, NM
Monument, NM**

Dear Mr. Martin:

Pursuant to our discussion in April 2006, BBC International, Inc., (BBC) on behalf of Plains Marketing, L. P. (Plains), respectfully submits the following closure plan to finalize the soil and groundwater remediation phase of the above referenced site.

This site was a pipeline release in August 2003 that was addressed by excavating impacted soil and then installing three (3) groundwater monitoring wells. These wells have been sampled and analyzed since the 3rd Quarter of 2003 and every quarter since up to the 1st Quarter of 2006.

The groundwater has been analyzed for BTEX constituents and has not recorded a detectable trace of BTEX constituents. As referenced in the latest annual groundwater report of April 2006, the monitoring wells have recorded eight (8) consecutive quarters for constituent concentrations below NMOCD regulatory standards.

As referenced in the annual report dated April 2006, Plains stated that a soil boring would be advanced in the center of the existing excavation to evaluate the vertical extent of any hydrocarbons in the soil that had been detected in July 2003 above NMOCD guidelines. A soil closure plan would then be submitted.

On March 30, 2006, a soil boring was advanced in the center of the excavation to re-evaluate the TPH on the floor of the excavation and to evaluate the vertical extent of soil impacts. The excavation bottom is ten (10) feet below ground surface (bgs). Soil samples were taken at three (3) depth intervals; 13 feet bgs, 18 feet bgs, and 23 feet bgs. The soil was analyzed for BTEX and DRO/GRO TPH by Trace Analysis, Inc. in Lubbock, Texas. All results were non-

June 16, 2006

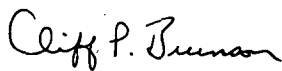
detect for the TPH and BTEX constituents. These results confirm that hydrocarbons no longer exist at this site. The laboratory data and chain of custody are attached.

Based on the March 30, 2006 data, Plains proposes to close this site by backfilling the excavation with clean soil and plug and abandon the three (3) groundwater monitor wells according to NMOCD standards.

Upon completion of these tasks and with approval from the NMOCD, the site will then be closed and no further action will be required.

I look forward to your immediate approval of this plan. If you have any questions, please feel free to contact either myself at: (505) 397-6388 or cbrunson@bbcinternational.com or Camille Reynolds at: (505) 441-0965 or cjreynolds@paalp.com.

Sincerely,
BBC International, Inc.



Cliff P. Brunson
President

cc: Camille Reynolds – Plains
Jeff Dann - Plains

Summary Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM, 88240

Report Date: April 4, 2006

Work Order: 6033127



EMS#: 2003-00207
Project Location: Monument, New Mexico
Project Name: 6 Inch Idle Line

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
87420	Plains 13'	soil	2006-03-30	08:47	2006-03-31
87421	Plains 18'	soil	2006-03-30	08:56	2006-03-31
87422	Plains 23'	soil	2006-03-30	09:04	2006-03-31

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	MTBE (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
87420 - Plains 13'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
87421 - Plains 18'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
87422 - Plains 23'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00

Analytical and Quality Control Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM, 88240

Report Date: April 4, 2006

Work Order: 6033127



EMS#: 2003-00207
Project Location: Monument, New Mexico
Project Name: 6 Inch Idle Line
Project Number: 6 Inch Idle Line

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
87420	Plains 13'	soil	2006-03-30	08:47	2006-03-31
87421	Plains 18'	soil	2006-03-30	08:56	2006-03-31
87422	Plains 23'	soil	2006-03-30	09:04	2006-03-31

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 87420 - Plains 13'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	25614	Date Analyzed:	2006-03-31	Analyzed By:	KB
Prep Batch:	22485	Sample Preparation:	2006-03-31	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.04	mg/Kg	10	0.100	104	74.1 - 121
4-Bromofluorobenzene (4-BFB)		1.26	mg/Kg	10	0.100	126	72.4 - 130.6

Sample: 87420 - Plains 13'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	25645	Date Analyzed:	2006-04-03	Analyzed By:	DS
Prep Batch:	22515	Sample Preparation:	2006-04-03	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		170	mg/Kg	1	150	113	50 - 150

Sample: 87420 - Plains 13'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	25613	Date Analyzed:	2006-03-31	Analyzed By:	KB
Prep Batch:	22485	Sample Preparation:	2006-03-31	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.739	mg/Kg	10	0.100	74	70 - 131.9
4-Bromofluorobenzene (4-BFB)		0.987	mg/Kg	10	0.100	99	70 - 130

Sample: 87421 - Plains 18'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 25614	Date Analyzed: 2006-03-31	Analyzed By: KB
Prep Batch: 22485	Sample Preparation: 2006-03-31	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	1	1.35	mg/Kg	10	0.100	135	74.1 - 121
4-Bromofluorobenzene (4-BFB)	2	1.34	mg/Kg	10	0.100	134	72.4 - 130.6

Sample: 87421 - Plains 18'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 25645	Date Analyzed: 2006-04-03	Analyzed By: DS
Prep Batch: 22515	Sample Preparation: 2006-04-03	Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		167	mg/Kg	1	150	111	50 - 150

Sample: 87421 - Plains 18'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 25613	Date Analyzed: 2006-03-31	Analyzed By: KB
Prep Batch: 22485	Sample Preparation: 2006-03-31	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.974	mg/Kg	10	0.100	97	70 - 131.9
4-Bromofluorobenzene (4-BFB)		1.08	mg/Kg	10	0.100	108	70 - 130

¹High surrogate recovery. Sample non-detect, result bias high.

²High surrogate recovery. Sample non-detect, result bias high.

Sample: 87422 - Plains 23'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 25614	Date Analyzed: 2006-03-31	Analyzed By: KB
Prep Batch: 22485	Sample Preparation: 2006-03-31	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	3	1.36	mg/Kg	10	0.100	136	74.1 - 121
4-Bromofluorobenzene (4-BFB)	4	1.38	mg/Kg	10	0.100	138	72.4 - 130.6

Sample: 87422 - Plains 23'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 25645	Date Analyzed: 2006-04-03	Analyzed By: DS
Prep Batch: 22515	Sample Preparation: 2006-04-03	Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		169	mg/Kg	1	150	113	50 - 150

Sample: 87422 - Plains 23'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 25613	Date Analyzed: 2006-03-31	Analyzed By: KB
Prep Batch: 22485	Sample Preparation: 2006-03-31	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	10	0.100	101	70 - 131.9
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	10	0.100	104	70 - 130

Method Blank (1) QC Batch: 25613

³High surrogate recovery. Sample non-detect, result bias high.

⁴High surrogate recovery. Sample non-detect, result bias high.

Parameter	Flag	MDL Result	Units	RL
GRO		1.61	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.859	mg/Kg	10	0.100	86	57.8 - 112
4-Bromofluorobenzene (4-BFB)		0.664	mg/Kg	10	0.100	66	33.4 - 131

Method Blank (1) QC Batch: 25614

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00691	mg/Kg	0.001
Toluene		<0.00984	mg/Kg	0.001
Ethylbenzene		<0.0107	mg/Kg	0.001
Xylene		<0.00555	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	10	0.100	113	74.2 - 120
4-Bromofluorobenzene (4-BFB)		0.765	mg/Kg	10	0.100	76	60.5 - 135

Method Blank (1) QC Batch: 25645

Parameter	Flag	MDL Result	Units	RL
DRO		<10.7	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		164	mg/Kg	1	150	109	50 - 150

Laboratory Control Spike (LCS-1) QC Batch: 25613

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	9.15	9.15	mg/Kg	10	1.00	<0.236	92	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.939	0.933	mg/Kg	10	0.100	94	93	68.1 - 115
4-Bromofluorobenzene (4-BFB)	0.920	0.924	mg/Kg	10	0.100	92	92	68.7 - 130

Laboratory Control Spike (LCS-1) QC Batch: 25614

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	1.15	1.14	mg/Kg	10	0.100	<0.00691	115	1	84.2 - 115	20
Toluene	1.14	1.14	mg/Kg	10	0.100	<0.00984	114	0	83.2 - 114	20
Ethylbenzene	1.13	1.13	mg/Kg	10	0.100	<0.0107	113	0	81.6 - 118	20
Xylene	3.38	3.38	mg/Kg	10	0.300	<0.00555	113	0	73.4 - 121	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit	
Trifluorotoluene (TFT)	5	1.12	1.14	mg/Kg	10	0.100	112	114	86.2 - 112
4-Bromofluorobenzene (4-BFB)		1.06	1.08	mg/Kg	10	0.100	106	108	77.8 - 118

Laboratory Control Spike (LCS-1) QC Batch: 25645

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	218	215	mg/Kg	1	250	<10.7	87	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	163	166	mg/Kg	1	150	109	111	50 - 150

Matrix Spike (MS-1) QC Batch: 25613 Spiked Sample: 87422

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	11.6	11.2	mg/Kg	10	1.00	<0.236	116	4	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.904	1.02	mg/Kg	10	0.1	90	102	62 - 114
4-Bromofluorobenzene (4-BFB)	1.20	1.30	mg/Kg	10	0.1	120	130	66.9 - 136

Matrix Spike (MS-1) QC Batch: 25614 Spiked Sample: 87422

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	1.22	1.08	mg/Kg	10	0.100	<0.00691	122	12	54.7 - 124	20
Toluene	1.15	1.09	mg/Kg	10	0.100	<0.00984	115	5	58.2 - 129	20
Ethylbenzene	1.18	1.12	mg/Kg	10	0.100	<0.0107	118	5	64.4 - 123	20
Xylene	3.48	3.35	mg/Kg	10	0.300	<0.00555	116	4	56.2 - 131	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

⁵LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therefore, LCS shows extraction occurred properly.

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	⁶⁷	1.42	1.34	mg/Kg	10	0.1	142	134	46 - 127
4-Bromofluorobenzene (4-BFB)	⁸⁹	1.31	1.34	mg/Kg	10	0.1	131	134	66.8 - 115

Matrix Spike (MS-1) QC Batch: 25645 Spiked Sample: 87422

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	209	214	mg/Kg	1	250	<10.7	84	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	162	161	mg/Kg	1	150	108	107	50 - 150

Standard (ICV-1) QC Batch: 25613

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.910	91	85 - 115	2006-03-31

Standard (CCV-1) QC Batch: 25613

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.938	94	85 - 115	2006-03-31

Standard (ICV-1) QC Batch: 25614

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.113	113	85 - 115	2006-03-31
Toluene		mg/Kg	0.100	0.113	113	85 - 115	2006-03-31
Ethylbenzene		mg/Kg	0.100	0.112	112	85 - 115	2006-03-31
Xylene		mg/Kg	0.300	0.336	112	85 - 115	2006-03-31

Standard (CCV-1) QC Batch: 25614

⁶ Analyte outside normal limits in MS/MSD. LCS/LCSD show the method to be in control.

⁷ Analyte outside normal limits in MS/MSD. LCS/LCSD show the method to be in control.

⁸ Analyte outside normal limits in MS/MSD. LCS/LCSD show the method to be in control.

⁹ Analyte outside normal limits in MS/MSD. LCS/LCSD show the method to be in control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.115	115	85 - 115	2006-03-31
Toluene		mg/Kg	0.100	0.115	115	85 - 115	2006-03-31
Ethylbenzene		mg/Kg	0.100	0.113	113	85 - 115	2006-03-31
Xylene		mg/Kg	0.300	0.338	113	85 - 115	2006-03-31

Standard (ICV-1) QC Batch: 25645

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	220	88	75 - 125	2006-04-03

Standard (CCV-1) QC Batch: 25645

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	220	88	75 - 125	2006-04-03

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Page 1 of 1[illegible]



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

April 4, 2006

Ms. Camille Reynolds
Plains Marketing, L.P.
3112 West Highway 82
Lovington, NM 87260

RE: 2005 Annual Groundwater Monitoring Report for the
6-Inch Central Battery Idle Line Site
SE/4 NE/4 of Section 5, Township 20 South, Range 37 East
Plains EMS Number: 2003-00207
NMOCD File Number 1R-0407

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the above report which is hereby approved with the following understandings:

1. The groundwater monitoring wells at the site have now recorded eight (8) consecutive quarters of constituent concentrations below NMOCD regulatory standards. However, quarterly monitoring, gauging, and sampling of the monitor wells will continue in 2006, until the soil at the site is remediated and closed according to NMOCD standards.
2. Plains will install a soil boring at the source area of this site to evaluate the vertical extent of the hydrocarbon contamination in the soil.
3. Plains will then submit a separate soil closure plan for the site.
4. The 2006 Annual Groundwater Monitoring Report will be due by May 1, 2007.

NMOCD approval does not relieve Plains Marketing, L.P. (Plains) of liability should its remediation activities at this site prove to have been harmful to public health or the environment. Nor does it relieve Plains of its responsibility to comply with the rules and regulations of any other governmental agency.

If you have any questions, contact me at (505) 476-3492 or ed.martin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin
Environmental Bureau

Copy: NMOCD, Hobbs
BBC, International, Hobbs, NM



PLAINS ALL AMERICAN

2006 MAR 29 AM 11 39

March 27, 2006

Mr. Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains All American – Annual Monitoring Reports
3 Sites in Lea County, New Mexico

Dear Mr. Martin:

Plains All American is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains All American actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains All American hereby submits our Annual Monitoring reports for the following sites:

LF-37	Section 19, Township 19 South, Range 37 East, Lea County
TNM 97-23	Section 14, Township 22 South, Range 37 East, Lea County
6" Central Battery Idle Line	Section 5, Township 20 South, Range 37 East, Lea County

BBC prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed BBC in order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above facilities.

If you have any questions or require further information, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

6 INCH CENTRAL BATTERY IDLE LINE

**SE ¼ OF THE NE ¼ OF SECTION 5
TOWNSHIP 20 SOUTH, RANGE 37 EAST
PLAINS EMS NUMBER: 2003-00207
LEA COUNTY, NEW MEXICO**

IR-407

2005 Annual Groundwater Monitoring Report

*Entire report
is on the
L-Drive*

April 2006

**PLAINS MARKETING, L.P.
333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS 77002**

Prepared By:

BBC International, Inc.

**World-Wide Environmental Specialists
Hobbs, New Mexico**

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- Appendix I: 1st Quarter Analytical Data, 03/16/05
 - Appendix II: 2nd Quarter Analytical Data, 06/14/05
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 - Appendix V: NMOCD Form C-141
-

INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), BBC International, Inc. (BBC) is pleased to submit 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. Beginning on October 19, 2004, project management responsibilities were assumed by BBC. The 6 Inch Central Battery Idle Line pipeline release site, which was formerly the responsibility of Link Energy, is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2005 only. For reference, the Site Location Map is provided as **Figure 1**.

Groundwater monitoring was conducted in four (4) quarters during the calendar year of 2005 to assess the levels and extent of dissolved phase and Phase Separated Hydrocarbon (PSH) constituents. The groundwater monitoring events consisted of measuring static water levels in the monitor wells and checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. No monitor wells at this site contain PSH.

A copy of this report with all figures and appendices is included on the enclosed CD.

FIELD ACTIVITIES

The site monitor wells were installed during the calendar year of 2003. The site monitor wells were gauged and sampled on March 16, June 14, September 28, and December 7, 2005. During each sampling event, the monitor wells 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 collected in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in polystyrene drums and disposed of by BBC utilizing the NMOCD-approved disposal facility near Eunice, NM operated by Sundance Services.

GROUNDWATER GRADIENT

Locations of the monitor wells and the inferred groundwater gradient, constructed from measurements collected during quarterly sampling events are depicted on **Figures 2-5**, the Inferred Groundwater Gradient Maps. Cumulative groundwater elevation data is provided as **Table 1**. Groundwater elevation contours, generated from water level measurements acquired during the quarterly sampling events of 2005 indicated a general gradient of approximately 0.00004 ft/ft to the south as measured between groundwater monitor wells MW-2 and MW-3. The depth to groundwater, as measured from the top of the well casing, ranged between 32.66 to 34.42 feet in the shallow alluvial aquifer.

LABORATORY RESULTS

Groundwater samples collected during the first three quarters of 2005 monitoring events were delivered to Trace Analysis, Inc. of Lubbock, Texas for determination of Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) constituent concentrations by EPA Method SW 846-8260b. Fourth quarter sample analysis was performed by Trace Analysis, Inc. of Lubbock, Texas for determination of BTEX constituent concentrations by EPA Method SW846-8021b. A listing of BTEX constituent concentrations is summarized in **Table 2**. Copies of the laboratory reports generated during this reporting period are provided as **Appendix I-IV**. Quarterly groundwater sample results reflecting benzene and BTEX constituent concentrations are depicted on **Figures 6-9**, the BTEX Concentration Maps.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2005 monitoring period indicate that benzene and BTEX constituent concentrations were below NMOCD regulatory standards in all monitor wells for four (4) quarters. Analytical results for the reporting period indicate total BTEX concentrations are below the applicable NMOCD regulatory standard for all sampled monitor wells. The groundwater monitoring wells have now recorded eight (8) consecutive quarters for constituent concentrations below NMOCD regulatory standards. The results are available in **Appendix I-IV**.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in Section 20.6.2.3103 of the New Mexico Administrative Code.

SUMMARY

This report presents the results of groundwater monitoring activities for the annual monitoring period of calendar year 2005. Groundwater elevation contours, generated from water level measurements acquired during the quarterly sampling events of 2005, indicated a general gradient of approximately 0.00004 ft/ft to the south as measured between groundwater monitor wells MW-2 and MW-3. No detectable or measurable amounts of PSH were recorded during the monitoring period.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2005 monitoring period indicated that benzene and BTEX constituent concentrations are below NMOCD regulatory standards (non-detect) for the monitor wells.

The Release Notification and Corrective Action Form (C-141) is provided as **Appendix V**.

CONCLUSION

The three groundwater monitoring wells have recorded eight (8) consecutive quarters of constituent concentrations below NMOCD regulatory standards. Under normal circumstances these wells would be eligible for closure, however quarterly monitoring, gauging, and sampling of the monitor wells will continue until the soil at the site is remediated and closed to NMOCD standards.

Plains will install a soil boring at the source area of this site in the second quarter of 2006 to evaluate the vertical extent of the hydrocarbons in the soil and then a soil closure plan will be prepared and submitted to the NMOCD for approval in the second quarter of 2006.

A report detailing activities conducted in 2006 will be submitted in April, 2007.

LIMITATIONS

BBC has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

BBC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. BBC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. BBC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. BBC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of BBC and/or Plains.

DISTRIBUTION

- Copy 1: Ed Martin
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
- Copy 2: Larry Johnson and Paul Sheeley
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240
- Copy 3: Camille Reynolds
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Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002
jpdann@paalp.com
- Copy 5: BBC International, Inc.
1324 W. Marland
Hobbs, NM 88240

Copy Number: ____ / ____



Highway 8

Telephone Wire

MW-3

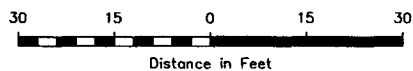
MW-2

Plains Pipeline

Buried Plains Pipeline

Unimproved Road

MW-1



32° 36' 13.17"
103° 16' 55.28"

8E 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

○ Monitor Well
(8234.32) Ground water Elevation (Inferred)
0.004 ft/ft Groundwater Gradient Direction and magnitude
□ Excavated Area

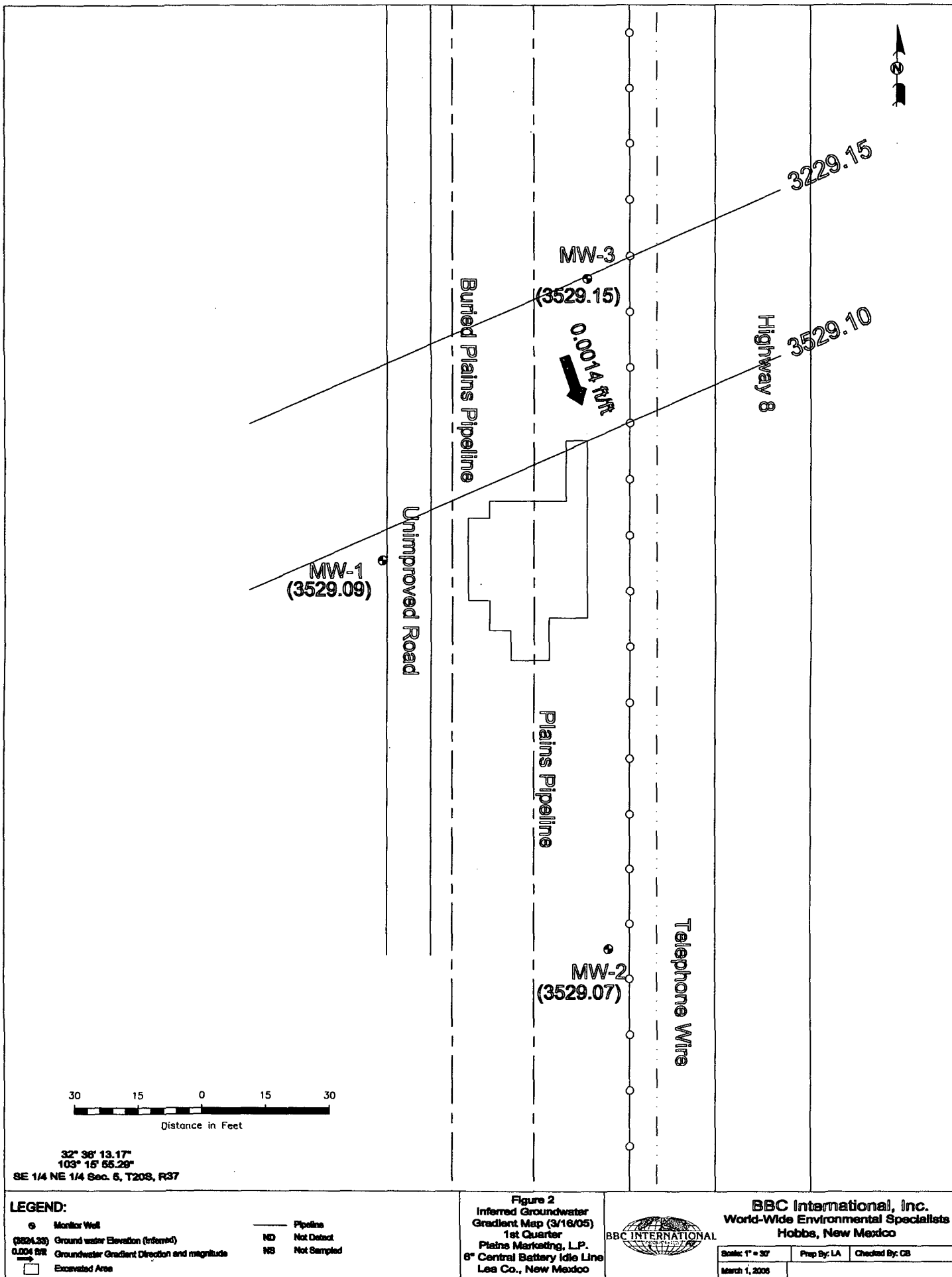
— Pipeline
ND Not Detect
NS Not Sampled

Figure 1
Site Map
Plains Marketing, L.P.
6" Central Battery Idle Line
Lea Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'
Prep By: LA
Checked By: CB
March 1, 2008





3529.36

(3529.36)
MW-3

3529.34

(3529.33)
MW-1

3529.32

3529.30

Buried Plains Pipeline

Unimproved Road

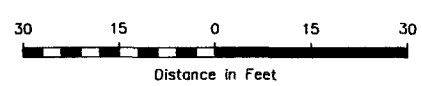
Highway 8

Plains Pipeline

0.00004 ft/ft

Telephone Wire

MW-2
(3529.30)



32° 36' 13.17"
103° 15' 55.29"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

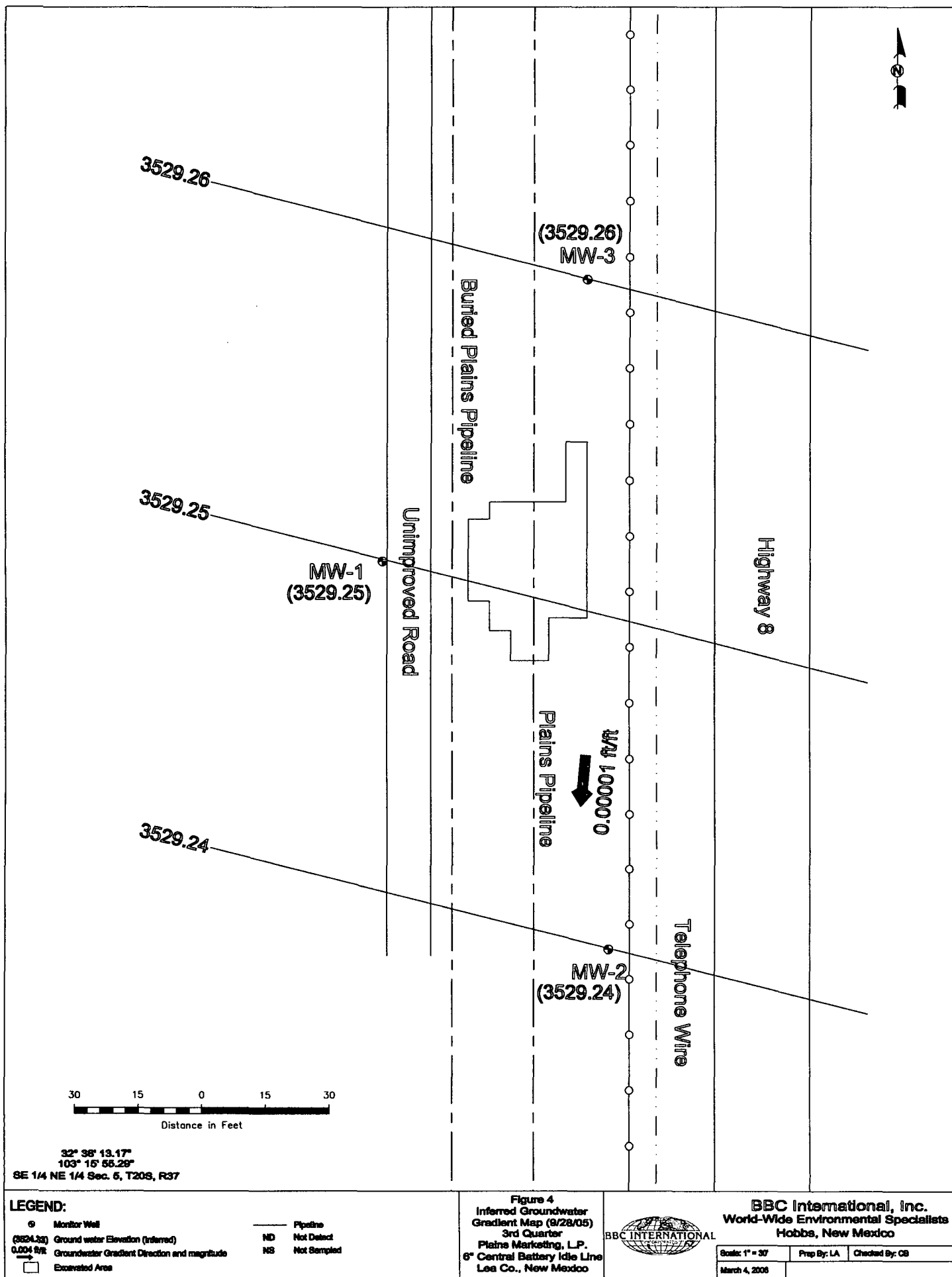
- | | | | |
|-------------|--|----|-------------|
| ● | Monitor Well | — | Pipeline |
| (3529.33) | Ground water Elevation (Inferred) | ND | Not Detect |
| 0.004 ft/ft | Groundwater Gradient Direction and magnitude | NS | Not Sampled |
| □ | Excavated Area | | |

Figure 3
Inferred Groundwater
Gradient Map (6/14/05)
2nd Quarter
Plains Marketing, L.P.
6" Central Battery Idle Line
Lea Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'	Prep By: LA	Checked By: CB
March 1, 2006		





3529.46

(3529.47)
MW-3

Buried Plains Pipeline

3529.44

MW-1
(3529.44)

Unimproved Road

Highway 8

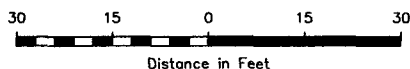
3529.42

Plains Pipeline

0.00004 ft/ft

MW-2
(3529.42)

Telephone Wire



32° 38' 13.17"
103° 15' 55.29"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

- | | |
|--|----------------|
| ● Monitor Well | — Pipeline |
| (3529.42) Ground water Elevation (Inferred) | ND Not Detect |
| 0.004 ft/ft Groundwater Gradient Direction and magnitude | NS Not Sampled |
| □ Excavated Area | |

Figure 5
Inferred Groundwater
Gradient Map (12/07/05)
4th Quarter
Plains Marketing, L.P.
6th Central Battery Idle Line
Lea Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'	Prep By: LA	Checked By: CB
March 1, 2006		



Highway 8

Telephone Wire

ND
MW-3

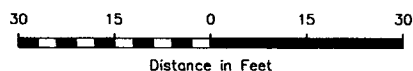
MW-2
ND

Buried Plains Pipeline

Plains Pipeline

Unimproved Road

ND
MW-1



32° 38' 13.17"
103° 16' 55.29"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

- | | | | |
|-------------|--|----|-------------|
| ○ | Monitor Well | — | Pipeline |
| (5524.33) | Ground water Elevation (Inferred) | ND | Not Detect |
| 0.004 ft/ft | Groundwater Gradient Direction and magnitude | NS | Not Sampled |
| □ | Excavated Area | | |

Figure 6
BTEX Concentration
(3/16/05)
1st Quarter
Plains Marketing, L.P.
6" Central Battery Idle Line
Lea Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'	Prep By: LA	Checked By: CB
March 1, 2008		



Highway 8

Telephone Wire

ND
MW-3

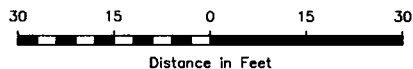
MW-2
ND

Buried Plains Pipeline

Plains Pipeline

Unimproved Road

ND
MW-1



32° 36' 13.17"
103° 15' 55.28"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

- | | | | |
|-----------|--|----|-------------|
| ● | Monitor Well | — | Pipeline |
| (2524.33) | Ground water Elevation (Inferred) | ND | Not Detect |
| 0.004 67% | Groundwater Gradient Direction and magnitude | NS | Not Sampled |
| □ | Excavated Area | | |

Figure 7
BTEX Concentration
(8/14/05)
2nd Quarter
Plains Marketing, L.P.
6" Central Battery Idle Line
Lea Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'	Prep By: LA	Checked By: CB
March 1, 2008		



Highway 8

Telephone Wire

ND
MW-3

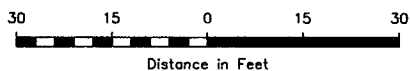
MW-2
ND

Buried Plains Pipeline

Plains Pipeline

Unimproved Road

MW-1
ND



32° 36' 13.17"
103° 15' 55.29"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

- | | |
|---|----------------|
| ● Monitor Well | — Pipeline |
| (3524.35) Ground water Elevation (Inferred) | ND Not Detect |
| 0.004 f/ft Groundwater Gradient Direction and magnitude | NS Not Sampled |
| □ Excavated Area | |

Figure 8
BTEX Concentration
(9/28/05)
3rd Quarter
Plains Marketing, L.P.
6" Central Battery Idle Line
Lea Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'	Prep By: LA	Checked By: CB
March 4, 2008		



Highway 8

Telephone Wire

ND
MW-3

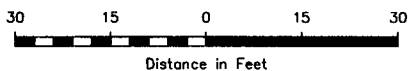
MW-2
ND

Buried Plains Pipeline

Plains Pipeline

Unimproved Road

ND
MW-1



32° 38' 13.17"
103° 18' 55.29"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

- | | |
|--|----------------|
| ⊙ Monitor Well | — Pipeline |
| (3524.33) Ground water Elevation (Interred) | ND Not Detect |
| 0.004 125 Groundwater Gradient Direction and magnitude | NS Not Sampled |
| □ Excavated Area | |

Figure 9
BTEX Concentration
(12/07/05)
4th Quarter
Plains Marketing, L.P.
6" Central Battery Idle Line
Lea Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'	Prep By: LA	Checked By: CB
March 1, 2008		

**Table 1. Groundwater Elevation Data
6 Inch Central Battery Idle Line**

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	08/29/03	3,563.51	39.02	39.02	Sheen	3,524.49
	09/12/03	3,563.51	-	39.05	0.00	3,524.46
	10/16/03	3,563.51	-	39.45	0.00	3,524.06
	10/21/03	3,563.51	39.46	39.46	Sheen	3,524.05
	12/04/03	3,563.51	39.18	39.19	0.01	3,524.33
	12/31/03	3,563.51	39.14	39.14	Sheen	3,524.37
	01/27/04	3,563.51	39.40	39.40	0.00	3,524.11
	02/19/04	3,563.51	39.39	39.39	0.00	3,524.12
	02/25/04	3,563.51	-	39.09	0.00	3,524.42
	04/09/04	3,563.51	-	39.56	0.00	3,523.95
	05/17/04	3,563.51	-	38.10	0.00	3,525.41
	12/27/04	3,563.51	-	35.45	0.00	3,528.06
	03/16/05	3,563.51	-	34.42	0.00	3,529.09
	06/14/05	3,563.51	-	34.18	0.00	3,529.33
	09/28/05	3,563.51	-	34.26	0.00	3,529.25
	12/07/05	3,563.51	-	34.07	0.00	3,529.44
MW - 2	08/29/03	3,563.40	-	39.28	0.00	3,524.12
	09/12/03	3,563.40	-	39.32	0.00	3,524.08
	10/16/03	3,563.40	-	39.74	0.00	3,523.66
	12/04/03	3,563.40	-	39.46	0.00	3,523.94
	02/25/04	3,563.40	-	39.45	0.00	3,523.95
	05/17/04	3,563.40	-	36.51	0.00	3,526.89
	12/27/04	3,563.40	-	35.45	0.00	3,527.95
	03/16/05	3,563.40	-	34.33	0.00	3,529.07
	06/14/05	3,563.40	-	34.10	0.00	3,529.30
	09/28/05	3,563.40	-	34.16	0.00	3,529.24
MW - 3	12/07/05	3,563.40	-	33.98	0.00	3,529.42
	08/29/03	3,562.13	-	37.34	0.00	3,524.79
	09/12/03	3,562.13	-	39.38	0.00	3,522.75
	10/16/03	3,562.13	-	37.82	0.00	3,524.31
	12/04/03	3,562.13	-	37.52	0.00	3,524.61
	02/25/04	3,562.13	-	37.41	0.00	3,524.72
	05/17/04	3,562.13	-	38.89	0.00	3,523.24
	12/27/04	3,562.13	-	33.83	0.00	3,528.30
	03/16/05	3,562.13	-	32.98	0.00	3,529.15
	06/14/05	3,562.13	-	32.77	0.00	3,529.36
	09/28/05	3,562.13	-	32.87	0.00	3,529.26
	12/07/05	3,562.13	-	32.66	0.00	3,529.47

Elevations based on the North American Vertical Datum of 1929.

Table 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
MW - 1	09/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/25/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
	09/07/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/27/04	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/05					
	06/14/05	<0.005	<0.005	<0.005	<0.005	<0.005
	09/28/05	<0.005	<0.005	<0.005	<0.005	<0.005
	12/07/05	<0.00100	<0.00100	<0.00100	<0.00100	
SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
MW - 2	09/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/25/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/27/04	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/05					
	06/14/05	<0.001	<0.001	<0.001	<0.001	<0.001
	09/28/05	<0.001	<0.001	<0.001	<0.001	<0.001
	12/07/05	<0.00100	<0.00100	<0.00100	<0.00100	
SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
MW - 3	09/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/25/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
	09/07/04	<0.001	<0.001	0.00377	0.0098	0.00219
	12/27/04	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/05					
	06/14/05	<0.005	<0.005	<0.005	<0.005	<0.005
	09/28/05	<0.005	<0.005	<0.005	<0.005	<0.005
	12/07/05	<0.00100	<0.00100	<0.00100	<0.00100	

APPENDIX I

Laboratory Results
1st Quarter 2005

6 Inch Central Battery Idle Line

April 2006

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

Summary Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: March 24, 2005

Work Order: 5031716

Project Location: Monument
Project Name: 6 Inch Central Battery Idle Line

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
57667	MW-2	water	2005-03-16	11:40	2005-03-17
57668	MW-1	water	2005-03-16	12:04	2005-03-17
57669	MW-3	water	2005-03-16	12:34	2005-03-17

Sample - Field Code	BTEX by 8260					MTBE by 8260
	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	m,p-Xylene ($\mu\text{g/L}$)	o-Xylene ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)
57667 - MW-2	<1.00	<1.00	<1.00	<1.00	<1.00	
57668 - MW-1	<1.00	<1.00	<1.00	<1.00	<1.00	
57669 - MW-3	<1.00	<1.00	<1.00	<1.00	<1.00	

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
155 McCutcheon, Suite H

Lubbock, Texas 79424
El Paso, Texas 79932

800•378•1296
888•588•3443

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: March 24, 2005

Work Order: 5031716

Project Location: Monument
Project Name: 6 Inch Central Battery Idle Line
Project Number: Monument

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
57667	MW-2	water	2005-03-16	11:40	2005-03-17
57668	MW-1	water	2005-03-16	12:04	2005-03-17
57669	MW-3	water	2005-03-16	12:34	2005-03-17

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Analytical Report

Sample: 57667 - MW-2

Analysis: BTEX by 8260	Analytical Method: S 8260B	Prep Method: S 5030B
QC Batch: 16792	Date Analyzed: 2005-03-21	Analyzed By: JG
Prep Batch: 14811	Sample Preparation: 2005-03-21	Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.2	µg/L	1	50.0	94	70 - 130
Toluene-d8		49.4	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		48.2	µg/L	1	50.0	96	70 - 130

Sample: 57668 - MW-1

Analysis: BTEX by 8260	Analytical Method: S 8260B	Prep Method: S 5030B
QC Batch: 16816	Date Analyzed: 2005-03-22	Analyzed By: JG
Prep Batch: 14829	Sample Preparation: 2005-03-22	Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.6	µg/L	1	50.0	95	70 - 130
Toluene-d8		49.4	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		49.2	µg/L	1	50.0	98	70 - 130

Sample: 57669 - MW-3

Analysis: BTEX by 8260	Analytical Method: S 8260B	Prep Method: S 5030B
QC Batch: 16816	Date Analyzed: 2005-03-22	Analyzed By: JG
Prep Batch: 14829	Sample Preparation: 2005-03-22	Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00

continued ...

sample 57669 continued...

Parameter	Flag	RL Result	Units	Dilution	RL
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.0	µg/L	1	50.0	96	70 - 130
Toluene-d8		49.4	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		48.9	µg/L	1	50.0	98	70 - 130

Method Blank (1) QC Batch: 16792

Parameter	Flag	MDL Result	Units	RL
1,1-Dichloroethene		<0.136	µg/L	1
Benzene		<0.146	µg/L	1
Trichloroethene (TCE)		0.180	µg/L	1
Toluene		0.310	µg/L	1
Chlorobenzene		<0.0540	µg/L	1
Ethylbenzene		0.0500	µg/L	1
m,p-Xylene		0.120	µg/L	1
o-Xylene		<0.0960	µg/L	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.6	µg/L	1	50.0	95	70 - 130
Toluene-d8		49.7	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		49.1	µg/L	1	50.0	98	70 - 130

Method Blank (1) QC Batch: 16816

Parameter	Flag	MDL Result	Units	RL
1,1-Dichloroethene		<0.136	µg/L	1
Benzene		<0.146	µg/L	1
Trichloroethene (TCE)		0.190	µg/L	1
Toluene		0.290	µg/L	1
Chlorobenzene		<0.0540	µg/L	1
Ethylbenzene		0.0400	µg/L	1
m,p-Xylene		<0.0940	µg/L	1
o-Xylene		<0.0960	µg/L	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.6	µg/L	1	50.0	93	70 - 130
Toluene-d8		49.2	µg/L	1	50.0	98	70 - 130
4-Bromofluorobenzene (4-BFB)		48.6	µg/L	1	50.0	97	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 16792

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
1,1-Dichloroethene	79.7	79.2	µg/L	1	100	<0.136	80	1	70 - 130	20
Benzene	95.4	95.2	µg/L	1	100	<0.146	95	0	70 - 130	20
Trichloroethene (TCE)	91.9	92.4	µg/L	1	100	<0.117	92	0	70 - 130	20
Toluene	93.3	93.8	µg/L	1	100	<0.0600	93	0	70 - 130	20
Chlorobenzene	96.2	96.0	µg/L	1	100	<0.0540	96	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	47.2	46.9	µg/L	1	50.0	94	94	70 - 130
Toluene-d8	49.9	49.8	µg/L	1	50.0	100	100	70 - 130
4-Bromofluorobenzene (4-BFB)	49.2	49.1	µg/L	1	50.0	98	98	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 16816

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
1,1-Dichloroethene	78.5	80.2	µg/L	1	100	<0.136	78	2	70 - 130	20
Benzene	95.2	95.7	µg/L	1	100	<0.146	95	0	70 - 130	20
Trichloroethene (TCE)	93.0	93.4	µg/L	1	100	<0.117	93	0	70 - 130	20
Toluene	93.6	94.6	µg/L	1	100	<0.0600	94	1	70 - 130	20
Chlorobenzene	95.3	95.4	µg/L	1	100	<0.0540	95	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	46.6	46.6	µg/L	1	50.0	93	93	70 - 130
Toluene-d8	50.1	49.3	µg/L	1	50.0	100	99	70 - 130
4-Bromofluorobenzene (4-BFB)	50.1	49.1	µg/L	1	50.0	100	98	70 - 130

Standard (CCV-1) QC Batch: 16792

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	46.1	92	80 - 120	2005-03-21
1,1-Dichloroethene		µg/L	50.0	44.0	88	80 - 120	2005-03-21
Chloroform		µg/L	50.0	46.8	94	80 - 120	2005-03-21
1,2-Dichloropropane		µg/L	50.0	49.2	98	80 - 120	2005-03-21
Toluene		µg/L	50.0	49.5	99	80 - 120	2005-03-21
Chlorobenzene		µg/L	50.0	51.5	103	80 - 120	2005-03-21
Ethylbenzene		µg/L	50.0	50.8	102	80 - 120	2005-03-21

Standard (CCV-1) QC Batch: 16816

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	48.7	97	80 - 120	2005-03-22
1,1-Dichloroethene		µg/L	50.0	45.3	91	80 - 120	2005-03-22
Chloroform		µg/L	50.0	46.6	93	80 - 120	2005-03-22
1,2-Dichloropropane		µg/L	50.0	49.3	99	80 - 120	2005-03-22
Toluene		µg/L	50.0	49.3	99	80 - 120	2005-03-22
Chlorobenzene		µg/L	50.0	51.2	102	80 - 120	2005-03-22
Ethylbenzene		µg/L	50.0	50.4	101	80 - 120	2005-03-22

Page 1 of 1

TraceAnalysis, Inc. 155 McCutcheon, Suite H El Paso, Texas 79932 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 586-3443 email: lab@traceanalysis.com		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # <u>5031716</u>		ANALYSIS REQUEST (Circle or Specify Method No.) <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>MTBE 8021B/602</td><td></td></tr> <tr><td>BTEX 8021B/602</td><td></td></tr> <tr><td>TPH 418 1/TX1005</td><td></td></tr> <tr><td>TX 1005 Extended (C35)</td><td></td></tr> <tr><td>PAH 8270C</td><td></td></tr> <tr><td>Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200 7</td><td></td></tr> <tr><td>TCLP Metals Ag As Ba Cd Cr Pb Se Hg</td><td></td></tr> <tr><td>TCLP Volatiles</td><td></td></tr> <tr><td>TCLP Semi Volatiles</td><td></td></tr> <tr><td>TCLP Pesticides</td><td></td></tr> <tr><td>RCI</td><td></td></tr> <tr><td>GC/MS Vol 8260B/625</td><td>☒</td></tr> <tr><td>GC/MS Semi Vol 8270C/625</td><td>☒</td></tr> <tr><td>PCBs 8082/608</td><td></td></tr> <tr><td>Pesticides 8081A/608</td><td></td></tr> <tr><td>BOD TSS pH</td><td></td></tr> <tr><td>Moisture Content</td><td></td></tr> <tr><td>Turn Around Time if different from standard</td><td></td></tr> </table>		MTBE 8021B/602		BTEX 8021B/602		TPH 418 1/TX1005		TX 1005 Extended (C35)		PAH 8270C		Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200 7		TCLP Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Volatiles		TCLP Semi Volatiles		TCLP Pesticides		RCI		GC/MS Vol 8260B/625	☒	GC/MS Semi Vol 8270C/625	☒	PCBs 8082/608		Pesticides 8081A/608		BOD TSS pH		Moisture Content		Turn Around Time if different from standard	
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Turn Around Time if different from standard																																									
Company Name: <u>BBC INTERNATIONAL</u> Phone # <u>(505) 397-6388</u> Address: <u>1324 W. MARLAND</u> (Street, City, Zip) Contact Person: <u>CLIFF BRUNSON</u> Invoice to: (If different from above) Project #:		Project Name: <u>6" Central Battery Idle Line</u> Sampler Signature: <u>[Signature]</u>		LAB USE ONLY Inact ☒ Y ☒ N Headspace ☒ Y ☒ N Temp <u>42</u> °F Log-in Review <u>Y</u>																																					
Project Location: <u>Monument New Mexico</u>		REMARKS:		Carrier # <u>TRUMAD 903-339-6438</u>																																					
Project Name: <u>6" Central Battery Idle Line</u> Sampler Signature: <u>[Signature]</u>		LAB USE ONLY Inact ☒ Y ☒ N Headspace ☒ Y ☒ N Temp <u>42</u> °F Log-in Review <u>Y</u>		Carrier # <u>TRUMAD 903-339-6438</u>																																					
Project Location: <u>Monument New Mexico</u>		LAB USE ONLY Inact ☒ Y ☒ N Headspace ☒ Y ☒ N Temp <u>42</u> °F Log-in Review <u>Y</u>		Carrier # <u>TRUMAD 903-339-6438</u>																																					

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APPENDIX II

Laboratory Results
2nd Quarter 2005

6 Inch Central Battery Idle Line

April 2006

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

Summary Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: June 27, 2005

Work Order: 5061615

Project Location: Eunice, New Mexico
Project Name: 6 Inch Idle Line

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
65513	MW-1	water	2005-06-14	15:35	2005-06-16
65514	MW-2	water	2005-06-14	15:51	2005-06-16
65515	MW-3	water	2005-06-14	16:15	2005-06-16

Sample - Field Code	BTEX by 8260					MTBE by 8260
	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	MTBE (µg/L)
65513 - MW-1	<5.00	<5.00	<5.00	<5.00	<5.00	
65514 - MW-2	<1.00	<1.00	<1.00	<1.00	<1.00	
65515 - MW-3	<5.00	<5.00	<5.00	<5.00	<5.00	

TRACE ANALYSIS, INC.

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Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79932 888•588•3443
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915•585•3443 FAX 915•585•4944

Analytical and Quality Control Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: June 27, 2005

Work Order: 5061615

Project Location: Eunice, New Mexico
Project Name: 6 Inch Idle Line
Project Number: 6 Inch Idle Line

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
65513	MW-1	water	2005-06-14	15:35	2005-06-16
65514	MW-2	water	2005-06-14	15:51	2005-06-16
65515	MW-3	water	2005-06-14	16:15	2005-06-16

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Analytical Report

Sample: 65513 - MW-1

Analysis: BTEX by 8260	Analytical Method: S 8260B	Prep Method: S 5030B
QC Batch: 19169	Date Analyzed: 2005-06-23	Analyzed By: JG
Prep Batch: 16845	Sample Preparation: 2005-06-23	Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<5.00	µg/L	5	1.00
Toluene		<5.00	µg/L	5	1.00
Ethylbenzene		<5.00	µg/L	5	1.00
m,p-Xylene		<5.00	µg/L	5	1.00
o-Xylene		<5.00	µg/L	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.7	µg/L	1	50.0	101	70 - 130
Toluene-d8		49.6	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		48.8	µg/L	1	50.0	98	70 - 130

Sample: 65514 - MW-2

Analysis: BTEX by 8260	Analytical Method: S 8260B	Prep Method: S 5030B
QC Batch: 19169	Date Analyzed: 2005-06-23	Analyzed By: JG
Prep Batch: 16845	Sample Preparation: 2005-06-23	Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.7	µg/L	1	50.0	101	70 - 130
Toluene-d8		49.4	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		49.2	µg/L	1	50.0	98	70 - 130

Sample: 65515 - MW-3

Analysis: BTEX by 8260	Analytical Method: S 8260B	Prep Method: S 5030B
QC Batch: 19169	Date Analyzed: 2005-06-23	Analyzed By: JG
Prep Batch: 16845	Sample Preparation: 2005-06-23	Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	²	<5.00	µg/L	5	1.00

¹ elevated reporting limit due to surfactants. •

² elevated reporting limit due to surfactants. •

continued ...

sample 65515 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<5.00	µg/L	5	1.00
Ethylbenzene		<5.00	µg/L	5	1.00
m,p-Xylene		<5.00	µg/L	5	1.00
o-Xylene		<5.00	µg/L	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.6	µg/L	1	50.0	103	70 - 130
Toluene-d8		50.7	µg/L	1	50.0	101	70 - 130
4-Bromofluorobenzene (4-BFB)		49.5	µg/L	1	50.0	99	70 - 130

Method Blank (1) QC Batch: 19169

Parameter	Flag	MDL Result	Units	RL
1,1-Dichloroethene		<0.136	µg/L	1
Benzene		<0.146	µg/L	1
Trichloroethene (TCE)		<0.117	µg/L	1
Toluene		<0.0600	µg/L	1
Chlorobenzene		<0.0540	µg/L	1
Ethylbenzene		<0.0360	µg/L	1
m,p-Xylene		<0.0940	µg/L	1
o-Xylene		<0.0960	µg/L	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.8	µg/L	1	50.0	100	70 - 130
Toluene-d8		50.4	µg/L	1	50.0	101	70 - 130
4-Bromofluorobenzene (4-BFB)		49.0	µg/L	1	50.0	98	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 19169

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
1,1-Dichloroethene	41.8	45.1	µg/L	1	50.0	<0.136	84	8	70 - 130	20
Benzene	49.2	49.8	µg/L	1	50.0	<0.146	98	1	70 - 130	20
Trichloroethene (TCE)	46.9	47.9	µg/L	1	50.0	<0.117	94	2	70 - 130	20
Toluene	49.9	50.5	µg/L	1	50.0	<0.0600	100	1	70 - 130	20
Chlorobenzene	46.3	46.4	µg/L	1	50.0	<0.0540	93	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	50.5	50.8	µg/L	1	50.0	101	102	70 - 130
Toluene-d8	50.4	50.3	µg/L	1	50.0	101	101	70 - 130

continued ...

Report Date: June 27, 2005
6 Inch Idle Line

Work Order: 5061615
6 Inch Idle Line

Page Number: 4 of 5
Eunice, New Mexico

control spikes continued...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	49.6	49.7	µg/L	1	50.0	99	99	70 - 130

Standard (CCV-1) QC Batch: 19169

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	53.0	106	80 - 120	2005-06-23
1,1-Dichloroethene		µg/L	50.0	53.2	106	80 - 120	2005-06-23
Chloroform		µg/L	50.0	51.9	104	80 - 120	2005-06-23
1,2-Dichloropropane		µg/L	50.0	52.2	104	80 - 120	2005-06-23
Toluene		µg/L	50.0	51.8	104	80 - 120	2005-06-23
Chlorobenzene		µg/L	50.0	47.7	95	80 - 120	2005-06-23
Ethylbenzene		µg/L	50.0	50.7	101	80 - 120	2005-06-23

TraceAnalysis, Inc. 8701 Alford Avenue, Ste. 9 155 McCutcheon, Suite H Lubbock, Texas 79424 El Paso, Texas 79532 Tel (806) 794-1296 Tel (915) 585-5443 Fax (806) 794-1298 Fax (915) 585-4944 1 (800) 378-1296 1 (888) 588-3443 email: lab@traceanalysis.com										CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # <u>5061615</u>									
Company Name: <u>BBC International</u> Phone #: <u>(505) 3976388</u> Address: <u>1324 W. MARLAND, HOBBS NM 88240</u> Fax #: <u>(505) 3970397</u> Contact Person: <u>CLIFF BRUNSON</u>										ANALYSIS REQUEST (Circle or Specify Method No.)									
Project Location: <u>Eunice New Mexico</u> Project Name: <u>6" Idle Line</u> Sampler Signature: <u>[Signature]</u>										LAB USE ONLY									
FIELD CODE										REMARKS:									
LAB # (LAB USE ONLY) # CONTAINERS VOLUME/AMOUNT MATRIX PRESERVATIVE METHOD SAMPLING DATE TIME										Intact <u>Y</u> / N <u>N</u> Headspace <u>4</u> Y / N <u>N</u> Temp <u>4</u> ° Log-in Review <u>1</u>									
15513 MW # 1 2 VOA ✓ HCl H ₂ O ₂ H ₂ SO ₄ NaOH ICE NONE 6.14 3:35										☐ Dry Weight Basis Required ☐ TRRP Report Required ☐ Check If Special Reporting Limits Are Needed									
14 MW # 2 2 VOA ✓ HCl H ₂ O ₂ H ₂ SO ₄ NaOH ICE NONE 6.14 3:51																			
15 MW # 3 2 VOA ✓ HCl H ₂ O ₂ H ₂ SO ₄ NaOH ICE NONE 6.14 4:15																			
Relinquished by: <u>Roger Hernandez</u> Date: <u>6-15-05</u> Time: <u>9:15</u> Received by: Date: Time:										LAB USE ONLY									
Relinquished by: Date: Time: Received by: Date: Time:										Intact <u>Y</u> / N <u>N</u> Headspace <u>4</u> Y / N <u>N</u> Temp <u>4</u> ° Log-in Review <u>1</u>									
Relinquished by: Date: Time: Received by: Date: Time:										Intact <u>Y</u> / N <u>N</u> Headspace <u>4</u> Y / N <u>N</u> Temp <u>4</u> ° Log-in Review <u>1</u>									
Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.																			

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APPENDIX III

Laboratory Results
3rd Quarter 2005

6 Inch Central Battery Idle Line

April 2006

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

Summary Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: October 12, 2005

Work Order: 5093018

Project Location: Monument
Project Name: 6 Inch Central Battery Idle Line

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
74686	MW-1	water	2005-09-28	11:15	2005-09-30
74687	MW-2	water	2005-09-28	11:32	2005-09-30
74688	MW-3	water	2005-09-28	11:50	2005-09-30

Sample - Field Code	BTEX by 8260					MTBE by 8260
	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	m,p-Xylene ($\mu\text{g/L}$)	o-Xylene ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)
74686 - MW-1	<5.00	<5.00	<5.00	<5.00	<5.00	
74687 - MW-2	<1.00	<1.00	<1.00	<1.00	<1.00	
74688 - MW-3	<5.00	<5.00	<5.00	<5.00	<5.00	

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: October 12, 2005

Work Order: 5093018

Project Location: Monument
Project Name: 6 Inch Central Battery Idle Line
Project Number: Monument

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
74686	MW-1	water	2005-09-28	11:15	2005-09-30
74687	MW-2	water	2005-09-28	11:32	2005-09-30
74688	MW-3	water	2005-09-28	11:50	2005-09-30

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Analytical Report

Sample: 74686 - MW-1

Analysis: BTEX by 8260	Analytical Method: S 8260B	Prep Method: S 5030B
QC Batch: 21913	Date Analyzed: 2005-10-11	Analyzed By: JG
Prep Batch: 19235	Sample Preparation: 2005-10-11	Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<5.00	µg/L	5	1.00
Toluene		<5.00	µg/L	5	1.00
Ethylbenzene		<5.00	µg/L	5	1.00
m,p-Xylene		<5.00	µg/L	5	1.00
o-Xylene		<5.00	µg/L	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.0	µg/L	1	50.0	100	70 - 130
Toluene-d8		50.6	µg/L	1	50.0	101	70 - 130
4-Bromofluorobenzene (4-BFB)		49.7	µg/L	1	50.0	99	70 - 130

Sample: 74687 - MW-2

Analysis: BTEX by 8260	Analytical Method: S 8260B	Prep Method: S 5030B
QC Batch: 21913	Date Analyzed: 2005-10-11	Analyzed By: JG
Prep Batch: 19235	Sample Preparation: 2005-10-11	Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.9	µg/L	1	50.0	100	70 - 130
Toluene-d8		50.8	µg/L	1	50.0	102	70 - 130
4-Bromofluorobenzene (4-BFB)		49.6	µg/L	1	50.0	99	70 - 130

Sample: 74688 - MW-3

Analysis: BTEX by 8260	Analytical Method: S 8260B	Prep Method: S 5030B
QC Batch: 21913	Date Analyzed: 2005-10-11	Analyzed By: JG
Prep Batch: 19235	Sample Preparation: 2005-10-11	Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<5.00	µg/L	5	1.00

continued...

sample 74688 continued...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<5.00	µg/L	5	1.00
Ethylbenzene		<5.00	µg/L	5	1.00
m,p-Xylene		<5.00	µg/L	5	1.00
o-Xylene		<5.00	µg/L	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.7	µg/L	1	50.0	101	70 - 130
Toluene-d8		50.9	µg/L	1	50.0	102	70 - 130
4-Bromofluorobenzene (4-BFB)		49.7	µg/L	1	50.0	99	70 - 130

Method Blank (1) QC Batch: 21913

Parameter	Flag	MDL Result	Units	RL
1,1-Dichloroethene		<0.136	µg/L	1
Benzene		<0.146	µg/L	1
Trichloroethene (TCE)		0.120	µg/L	1
Toluene		0.130	µg/L	1
Chlorobenzene		<0.0540	µg/L	1
Ethylbenzene		0.0500	µg/L	1
m,p-Xylene		0.110	µg/L	1
o-Xylene		<0.0960	µg/L	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.2	µg/L	1	50.0	98	70 - 130
Toluene-d8		50.7	µg/L	1	50.0	101	70 - 130
4-Bromofluorobenzene (4-BFB)		49.6	µg/L	1	50.0	99	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 21913

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
1,1-Dichloroethene	42.9	43.6	µg/L	1	50.0	<0.136	86	2	70 - 130	20
Benzene	44.9	45.9	µg/L	1	50.0	<0.146	90	2	70 - 130	20
Trichloroethene (TCE)	43.9	44.6	µg/L	1	50.0	<0.117	88	2	70 - 130	20
Toluene	43.8	44.7	µg/L	1	50.0	<0.0600	88	2	70 - 130	20
Chlorobenzene	44.6	45.3	µg/L	1	50.0	<0.0540	89	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	48.2	48.5	µg/L	1	50.0	96	97	70 - 130
Toluene-d8	50.0	50.4	µg/L	1	50.0	100	101	70 - 130

continued...

control spikes continued...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	49.4	49.7	µg/L	1	50.0	99	99	70 - 130

Standard (CCV-1) QC Batch: 21913

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	50.1	100	80 - 120	2005-10-11
1,1-Dichloroethene		µg/L	50.0	51.3	103	80 - 120	2005-10-11
Chloroform		µg/L	50.0	49.5	99	80 - 120	2005-10-11
1,2-Dichloropropane		µg/L	50.0	50.2	100	80 - 120	2005-10-11
Toluene		µg/L	50.0	50.3	101	80 - 120	2005-10-11
Chlorobenzene		µg/L	50.0	50.9	102	80 - 120	2005-10-11
Ethylbenzene		µg/L	50.0	51.0	102	80 - 120	2005-10-11

Page 1 of 1

TraceAnalysis, Inc. 155 McCutcheon, Suite H El Paso, Texas 79932 Tel (915) 585-3443 Fax (915) 585-4944 1 (800) 588-3443		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # <u>5093018</u>		ANALYSIS REQUEST (Circle or Specify Method No.) <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>GC/MS Vol. 8250B/825</td><td>✓</td></tr> <tr><td>GC/MS Semi. Vol. 8270C/825</td><td>✓</td></tr> <tr><td>PCB's 8082/608</td><td></td></tr> <tr><td>Pesticides 8081A/608</td><td></td></tr> <tr><td>BOD, TSS, pH</td><td></td></tr> <tr><td>Moisture Content</td><td></td></tr> <tr><td>Turn Around Time if different from standard</td><td></td></tr> </table>		GC/MS Vol. 8250B/825	✓	GC/MS Semi. Vol. 8270C/825	✓	PCB's 8082/608		Pesticides 8081A/608		BOD, TSS, pH		Moisture Content		Turn Around Time if different from standard	
GC/MS Vol. 8250B/825	✓																		
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BOD, TSS, pH																			
Moisture Content																			
Turn Around Time if different from standard																			
Company Name: <u>BBC INTERNATIONAL</u> Address: <u>1324 W. MARLAND</u> Contact Person: <u>Cliff Branson</u> Phone #: <u>(505) 3976388</u> Fax #: <u>(505) 3970397</u> e-mail: <u>lab@traceanalysis.com</u>		Project Name: <u>6" Idle Line</u> Sampler Signature: <u>Roger Hernandez</u>		LAB USE ONLY <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Inlet</td><td>☒ Y ☐ N</td></tr> <tr><td>Headspace</td><td>☒ Y ☐ N</td></tr> <tr><td>Temp</td><td>☒ Y ☐ N</td></tr> <tr><td>Log-in Review</td><td>☒ Y ☐ N</td></tr> </table>		Inlet	☒ Y ☐ N	Headspace	☒ Y ☐ N	Temp	☒ Y ☐ N	Log-in Review	☒ Y ☐ N						
Inlet	☒ Y ☐ N																		
Headspace	☒ Y ☐ N																		
Temp	☒ Y ☐ N																		
Log-in Review	☒ Y ☐ N																		
Project Location: <u>Monument NM.</u>		REMARKS:		Carrier # <u>BLA 168 341 8792</u>															
Project #: _____		Received by: _____		Date: _____															
Invoice to: _____		Received by: _____		Date: _____															
Project #: _____		Received at Laboratory by: <u>William McCad</u>		Date: <u>9-30-05</u>															
Project Location: _____		Received by: _____		Date: _____															
Project #: _____		Received by: _____		Date: _____															

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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Company Name:

Name: EBC INTERNATIONAL

Address: _____ (Street, City, Zip)

1324 W. MARLAND
(Street, City, Zip)

Contact Person: Cliff Brumson

Invoice to:
 (If different from above)

Project #:

Project Name: 6" Tolle Line

Sampler Signature: Robert Hernandez

Project Location: Monument W.M.

[illegible]

Relinquished by: Rafael Hernandez	Date: 9-28-05	Time: 4:20	Received by:	Date:	Time:	LAB USE ONLY Intact <u>Y</u> <u>N</u> Headspace <u>Y</u> <u>N</u> Temp <u>40</u> ° Log-in Review <u>FR</u> ☐ Dry Weight Basis Required ☐ TRRP Report Required ☐ Check If Special Reporting Limits Are Needed	REMARKS: 10/12Gp
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		
Relinquished by:	Date:	Time:	Received at Laboratory by: <i>Megan McCord</i>	Date: 9-30-05	Time: 1000		
Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.							Carrier # <u>BLW</u> <u>168 341</u> <u>8792</u>

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APPENDIX IV

Laboratory Results
4th Quarter 2005

6 Inch Central Battery Idle Line

April 2006

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

Summary Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: December 12, 2005

Work Order: 5120910

Project Location: Monument, New Mexico
Project Name: 6 Inch Idle Line

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
79696	MW-1	water	2005-12-07	12:05	2005-12-09
79697	MW-2	water	2005-12-07	12:35	2005-12-09
79698	MW-3	water	2005-12-07	13:03	2005-12-09

Sample - Field Code	BTEX				MTBE
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)
79696 - MW-1	<0.00100	<0.00100	<0.00100	<0.00100	
79697 - MW-2	<0.00100	<0.00100	<0.00100	<0.00100	
79698 - MW-3	<0.00100	<0.00100	<0.00100	<0.00100	

TRACE ANALYSIS, INC.

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915•585•3443 FAX 915•585•4944

Analytical and Quality Control Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: December 12, 2005

Work Order: 5120910

Project Location: Monument, New Mexico
Project Name: 6 Inch Idle Line
Project Number: Monument, New Mexico

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
79696	MW-1	water	2005-12-07	12:05	2005-12-09
79697	MW-2	water	2005-12-07	12:35	2005-12-09
79698	MW-3	water	2005-12-07	13:03	2005-12-09

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Analytical Report

Sample: 79696 - MW-1

Analysis: BTEX
QC Batch: 23313
Prep Batch: 20447

Analytical Method: S 8021B
Date Analyzed: 2005-12-09
Sample Preparation: 2005-12-09

Prep Method: S 5030B
Analyzed By: KB
Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0931	mg/L	1	0.100	93	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0892	mg/L	1	0.100	89	70.6 - 129.2

Sample: 79697 - MW-2

Analysis: BTEX
QC Batch: 23313
Prep Batch: 20447

Analytical Method: S 8021B
Date Analyzed: 2005-12-09
Sample Preparation: 2005-12-09

Prep Method: S 5030B
Analyzed By: KB
Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0929	mg/L	1	0.100	93	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0836	mg/L	1	0.100	84	70.6 - 129.2

Sample: 79698 - MW-3

Analysis: BTEX
QC Batch: 23322
Prep Batch: 20456

Analytical Method: S 8021B
Date Analyzed: 2005-12-10
Sample Preparation: 2005-12-10

Prep Method: S 5030B
Analyzed By: KB
Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0978	mg/L	1	0.100	98	81.9 - 108
4-Bromofluorobenzene (4-BFB)		0.0825	mg/L	1	0.100	82	80.2 - 104

Method Blank (1) QC Batch: 23313

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000650	mg/L	0.001
Toluene		<0.00101	mg/L	0.001
Ethylbenzene		<0.000840	mg/L	0.001
Xylene		<0.000737	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0929	mg/L	1	0.100	93	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0837	mg/L	1	0.100	84	17.1 - 138

Method Blank (1) QC Batch: 23322

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000255	mg/L	0.001
Toluene		<0.000153	mg/L	0.001
Ethylbenzene		<0.000226	mg/L	0.001
Xylene		<0.00531	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0969	mg/L	1	0.100	97	75.1 - 112
4-Bromofluorobenzene (4-BFB)		0.0841	mg/L	1	0.100	84	49.1 - 106

Laboratory Control Spike (LCS-1) QC Batch: 23313

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0967	0.0966	mg/L	1	0.100	<0.000650	97	0	80.8 - 120.7	20
Toluene	0.0962	0.0961	mg/L	1	0.100	<0.00101	96	0	81 - 120.8	20
Ethylbenzene	0.0986	0.0974	mg/L	1	0.100	<0.000840	99	1	82.1 - 121	20
Xylene	0.300	0.299	mg/L	1	0.300	<0.000737	100	0	82.4 - 123.3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.100	0.100	mg/L	1	0.100	100	100	48.4 - 119
4-Bromofluorobenzene (4-BFB)	0.103	0.102	mg/L	1	0.100	103	102	17.1 - 138

Laboratory Control Spike (LCS-1) QC Batch: 23322

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.103	0.0982	mg/L	1	0.100	<0.000255	103	5	87.4 - 103.7	8.5
Toluene	0.102	0.0997	mg/L	1	0.100	<0.000153	102	2	86 - 107.4	6
Ethylbenzene	0.0997	0.0978	mg/L	1	0.100	<0.000226	100	2	86.2 - 108.3	6
Xylene	0.299	0.293	mg/L	1	0.300	<0.000531	100	2	84.5 - 107.9	6.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.100	0.100	mg/L	1	0.100	100	100	74.7 - 112
4-Bromofluorobenzene (4-BFB)	0.107	0.107	mg/L	1	0.100	107	107	69.4 - 111

Matrix Spike (MS-1) QC Batch: 23313 Spiked Sample: 79685

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene ¹	0.103	NA	mg/L	1	0.100	0.0069	96	200	72.6 - 135.5	20
Toluene ²	0.0947	NA	mg/L	1	0.100	<0.00101	95	200	71.4 - 134.5	20
Ethylbenzene ³	0.0966	NA	mg/L	1	0.100	<0.000840	97	200	76.2 - 126.1	20
Xylene ⁴	0.296	NA	mg/L	1	0.300	0.0043	97	200	67.4 - 112	140.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	⁵ 0.101	NA	mg/L	1	0.1	101	0	48.4 - 119
4-Bromofluorobenzene (4-BFB)	⁶ 0.103	NA	mg/L	1	0.1	103	0	17.1 - 138

Standard (ICV-1) QC Batch: 23313

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0947	95	85 - 115	2005-12-09
Toluene		mg/L	0.100	0.0948	95	85 - 115	2005-12-09
Ethylbenzene		mg/L	0.100	0.0969	97	85 - 115	2005-12-09
Xylene		mg/L	0.300	0.297	99	85 - 115	2005-12-09

Standard (CCV-1) QC Batch: 23313

¹RPD is out of range because a matrix spike duplicate was not prepared.

²RPD is out of range because a matrix spike duplicate was not prepared.

³RPD is out of range because a matrix spike duplicate was not prepared.

⁴RPD is out of range because a matrix spike duplicate was not prepared.

⁵RPD is out of range because a matrix spike duplicate was not prepared.

⁶RPD is out of range because a matrix spike duplicate was not prepared.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0963	96	85 - 115	2005-12-09
Toluene		mg/L	0.100	0.0954	95	85 - 115	2005-12-09
Ethylbenzene		mg/L	0.100	0.0967	97	85 - 115	2005-12-09
Xylene		mg/L	0.300	0.296	99	85 - 115	2005-12-09

Standard (ICV-1) QC Batch: 23322

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2005-12-10
Toluene		mg/L	0.100	0.101	101	85 - 115	2005-12-10
Ethylbenzene		mg/L	0.100	0.100	100	85 - 115	2005-12-10
Xylene		mg/L	0.300	0.302	101	85 - 115	2005-12-10

Standard (CCV-1) QC Batch: 23322

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0969	97	85 - 115	2005-12-10
Toluene		mg/L	0.100	0.0985	98	85 - 115	2005-12-10
Ethylbenzene		mg/L	0.100	0.0952	95	85 - 115	2005-12-10
Xylene		mg/L	0.300	0.284	95	85 - 115	2005-12-10

[illegible]

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296
email: lab@traceanalysis.com

TraceAnalysis, Inc.

155 McCulcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Company Name:

BBC INTERNATIONAL

Address: _____ (Street, City, Zip)

ADDRESS: 1324 W. MARLAND
(Street, City, Zip)

Contact Person:

Cliff Benson

Invoice to:

(If different from above)

Project #:

Project Name: / "

6" Idle Line

Sampler Signature:

Project Location: Monument, New Mexico

Signature: _____

[illegible]

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 520910

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

LAB USE ONLY

Intact

Headspace _____

Temp

☐ Dry Weight Basis Required

☐ TAPP Report Required

☐ Final Report Required
☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

APPENDIX V

FORM C-141

6 Inch Central Battery Idle Line

April 2006

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised June 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	FOOT Energy LLC	Contact	FRANK Hernandez
Address	5805 East Highway 80, Millane	Telephone No.	(505) 631-3895
Facility Name	6 inch Central Battery TX 7970	Facility Type	6 inch pipeline
Surface Owner	Lumie Cooper	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	5	20S	37E	-	-	-	-	Lea

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	25 barrels	Volume Recovered	0 barrels
Source of Release	6 inch pipeline	Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	7-29-03 8:30 AM		
By Whom?		Date and Hour			
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Corrosion of 6 inch pipeline. Visually stained soil excavated

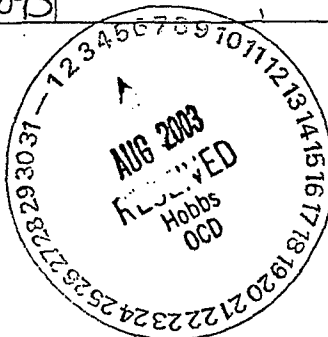
Describe Area Affected and Cleanup Action Taken.*

25'x10' visually stained soil excavated and stockpiled on-site

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>[Signature]</i>		OIL CONSERVATION DIVISION	
Printed Name: F. Hernandez		Approved by District Supervisor:	
Title: Environmental Coordinator		Approval Date:	Expiration Date:
E-mail Address:		Conditions of Approval:	
Date: 8/4/03 Phone: (505) 631-3095		Attached ☐	

* Attach Additional Sheets If Necessary



Martin, Ed

From: Camille J Reynolds [cjreynolds@paalp.com]
Sent: Thursday, April 28, 2005 2:08 PM
To: 'EMartin@state.nm.us'
Subject: 6 Inch Central Battery Idle Line *IR-407*

Ed;

In your letter dated April 18, concerning the above referenced site you had a couple of questions:

1. Has any backfilling occurred at the site? No the excavation is open to an app. depth of 15 bgs, BBC is working on a Remediation Plan and I will have it to you ASAP.
2. Did Nova prepare a risk? No, Nova did not do a risk on this site, but I have transferred the site to BBC and they will.

If you have any further questions or comments please contact me at 505-441-0965.

Sincerely,

Camille Reynolds
Plains Marketing

Attention:

The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.

This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.

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NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

April 18, 2005

Ms. Camille Reynolds
Plains Marketing, L.P.
3112 West Highway 82
Lovington, NM 88260

Re: 2004 Annual Groundwater Monitoring Report
Plains Marketing, L.P. 6-Inch Central Battery Idle Line Site
SE/4 NE/4 of Section 5, T-20S, R-37E
Plains EMS Number: 2003-00207
Lea County, New Mexico
NMOCD Ref. #1R-0407

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the above report. Thank you for the submission of the report. In looking back at our file on this site, I have a couple of questions:

1. Has any backfilling occurred at the site?
2. Did Nova Safety and Environmental prepare a risk assessment on the site?

Please respond to the above questions by May 18, 2005.

If you have any questions, contact me at (505) 476-3492 or emartin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin
Environmental Bureau

cc: NMOCD, Hobbs



**PLAINS
ALL AMERICAN**

March 30, 2005

Mr. Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains All American – Annual Monitoring Reports
3 Sites in Lea County, New Mexico

Dear Mr. Martin:

Plains All American is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains All American actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains All American hereby submits our Annual Monitoring reports for the following sites:

LF-37	Section 19, Township 19 South, Range 37 East, Lea County
6" Central Battery Idle Line	Section 5, Township 20 South, Range 37 East, Lea County
TNM 97-23	Section 14, Township 22 South, Range 37 East, Lea County

BBC prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed BBC in order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above 3 facilities.

If you have any questions or require further information, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

6 INCH CENTRAL BATTERY IDLE LINE

**SE ¼ OF THE NE ¼ OF SECTION 5
TOWNSHIP 20 SOUTH, RANGE 37 EAST
PLAINS EMS NUMBER: 2003-00207
LEA COUNTY, NEW MEXICO**

IR-407

2004 Annual Groundwater Monitoring Report

April 2005

**PLAINS MARKETING, L.P.
HOUSTON, TEXAS**

Prepared By:

BBC International, Inc.

**World-Wide Environmental Specialists
Hobbs, New Mexico**

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- Figure 1 – Site Location Map
- Figure 2 – Inferred Groundwater Gradient Map February 25, 2004
- 3 – Inferred Groundwater Gradient Map May 17, 2004
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- Figure 5 – BTEX Concentration Map February 25, 2004
- 6 – BTEX Concentration Map May 17, 2004
- 7 – BTEX Concentration Map December 27, 2004

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- Table 1 – Groundwater Elevation Data
- Table 2 – Concentrations of BTEX in Groundwater

APPENDICES

- Appendix I: 1st Quarter Analytical Data, 02/25/04
 - Appendix II: 2nd Quarter Analytical Data, 05/17/04
 - Appendix III: 4th Quarter Analytical Data, 12/27/04
 - Appendix IV: NMOCD Form C-141
-

INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), BBC International, Inc. (BBC) is pleased to submit 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. Beginning on October 19, 2004, project management responsibilities were assumed by BBC. The site was previously managed by Environmental Technology Group, Inc (ETGI), then NOVA Safety and Environmental. The 6 Inch Central Battery Idle Line pipeline release site, which was formerly the responsibility of Link Energy, is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2004 only. For reference, the Site Location Map is provided as **Figure 1**.

Groundwater monitoring was conducted in three (3) quarters during the calendar year of 2004 to assess the levels and extent of dissolved phase and Phase Separated Hydrocarbon (PSH) constituents. The third quarter did not have any monitoring activities due to an oversight by the previous consultant prior to BBC assuming site responsibilities. 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. No monitor wells at this site contain PSH.

A copy of this report with all figures and appendices is included on the enclosed CD.

FIELD ACTIVITIES

The site monitor wells were installed during the calendar year of 2003. The site monitor wells were gauged and sampled on February 25, May 17, and December 27, 2004. The third quarter did not have any monitoring activities due to an oversight by the previous consultant prior to BBC assuming site responsibilities. During each sampling event, the monitor wells 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 collected in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in polystyrene drums and disposed of by BBC utilizing the NMOCD-approved disposal facility near Eunice, NM operated by Sundance Services.

GROUNDWATER GRADIENT

Locations of the monitor wells and the inferred groundwater gradient, constructed from measurements collected during quarterly sampling events are depicted on **Figures 2-4**, the Inferred Groundwater Gradient Maps. Cumulative groundwater elevation data is provided as **Table 1**. Groundwater elevations contours, generated from water level measurements acquired during the quarterly sampling events of 2004, indicated a general gradient of approximately 0.004 ft/ft to the south as measured between

groundwater monitor wells MW-2 and MW-3. The depth to groundwater, as measured from the top of the well casing, ranged between 33.83 to 39.56 feet in the shallow alluvial aquifer.

LABORATORY RESULTS

Groundwater samples collected during the first two quarters of 2004 monitoring events were delivered to AnalySys Inc. of Austin Texas for determination of Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) constituent concentrations by EPA Method SW 846-8260b. Fourth quarter sample analysis was performed by Trace Analysis, Inc. of Lubbock, Texas for determination of BTEX constituent concentrations by EPA Method SW846-8260b. A cumulative listing of BTEX constituent concentrations is summarized in **Table 2**. Copies of the laboratory reports generated during this reporting period are provided as **Appendix I-III**. Quarterly groundwater sample results reflecting benzene and BTEX constituent concentrations are depicted on **Figures 5-7**, the BTEX Concentration Maps.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2004 monitoring period indicate that benzene and BTEX constituent concentrations were below NMOCD regulatory standards (non-detect) in all monitor wells for three (3) quarters. Analytical results for the reporting period indicate total BTEX concentrations are below the applicable NMOCD regulatory standard for all sampled monitor wells. The results are available in **Appendix I-III**.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in Section 20.6.2.3103 of the New Mexico Administrative Code.

SUMMARY

This report presents the results of groundwater monitoring activities for the annual monitoring period of calendar year 2004. Groundwater elevation contours, generated from water level measurements acquired during the quarterly sampling events of 2004, indicated a general gradient of approximately 0.004 ft/ft to the south as measured between groundwater monitor wells MW-2 and MW-3. No detectable or measurable amounts of PSH were recorded during the monitoring period.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2004 monitoring period indicated that benzene and BTEX constituent concentrations are below NMOCD regulatory standards (non-detect) for the monitor wells. The results are available in **Appendix I-III**.

The Release Notification and Corrective Action Form (C-141) is provided as **Appendix IV**.

CONCLUSION

Quarterly monitoring, gauging, and sampling of the monitor wells will continue through 2005. A report detailing activities conducted in 2005 will be submitted in April 2006.

LIMITATIONS

BBC has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

BBC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. BBC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. BBC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. BBC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of BBC and/or Plains.

DISTRIBUTION

Copy 1: Ed Martin
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Copy 2: Larry Johnson and Paul Sheeley
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240

Copy 3: Camille Reynolds
Plains Marketing, L.P.
3112 Highway 82
Lovington, NM 88260
cjreynolds@paalp.com

Copy 4: Jeff Dann
Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002
jpdann@paalp.com

Copy 5: Daniel Bryant
Plains Marketing, L.P.
P. O. Box 3119
Midland, Texas 79702

Copy 6: BBC International, Inc.
1324 W. Marland
Hobbs, NM 88240

Copy Number: 1

**Table 1. Groundwater Elevation Data
6 Inch Central Battery Idle Line**

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	08/29/03	3,563.51	39.02	39.02	Sheen	3,524.49
	09/12/03	3,563.51	-	39.05	0.00	3,524.46
	10/16/03	3,563.51	-	39.45	0.00	3,524.06
	10/21/03	3,563.51	39.46	39.46	Sheen	3,524.05
	12/04/03	3,563.51	39.18	39.19	0.01	3,524.33
	12/31/03	3,563.51	39.14	39.14	Sheen	3,524.37
	01/27/04	3,563.51	39.40	39.40	0.00	3,524.11
	02/19/04	3,563.51	39.39	39.39	0.00	3,524.12
	02/25/04	3,563.51	-	39.09	0.00	3,524.42
	04/09/04	3,563.51	-	39.56	0.00	3,523.95
	05/17/04	3,563.51	-	38.10	0.00	3,525.41
	12/27/04	3,563.51	-	35.45	0.00	3,528.06
MW - 2	08/29/03	3,563.40	-	39.28	0.00	3,524.12
	09/12/03	3,563.40	-	39.32	0.00	3,524.08
	10/16/03	3,563.40	-	39.74	0.00	3,523.66
	12/04/03	3,563.40	-	39.46	0.00	3,523.94
	02/25/04	3,563.40	-	39.45	0.00	3,523.95
	05/17/04	3,563.40	-	36.51	0.00	3,526.89
	12/27/04	3,563.40	-	35.45	0.00	3,527.95
MW - 3	08/29/03	3,562.13	-	37.34	0.00	3,524.79
	09/12/03	3,562.13	-	39.38	0.00	3,522.75
	10/16/03	3,562.13	-	37.82	0.00	3,524.31
	12/04/03	3,562.13	-	37.52	0.00	3,524.61
	02/25/04	3,562.13	-	37.41	0.00	3,524.72
	05/17/04	3,562.13	-	38.89	0.00	3,523.24
	12/27/04	3,562.13	-	33.83	0.00	3,528.30

Elevations based on the North American Vertical Datum of 1929.

Table 2 1st & 2nd Quarter 2004 Sampling Reports

6" Central Battery Idle Line BTEX: S-8260B Method

MW-1

Analyte	Matrix	Method Taken	1 st Quarter				2 nd Quarter			
			Sample No.	Date Taken	$\mu\text{g/L}$		Sample No.	Date Taken	$\mu\text{g/L}$	
					Result	Detection Limit			Result	Detection Limit
Benzene	Water	S-8260B	153313	2/25/04	<1.00	1	155949	5/17/04	<1.00	1
Ethylbenzene	Water	S-8260B	153313	2/25/04	<1.00	1	155949	5/17/04	<1.00	1
M,p-Xylene	Water	S-8260B	153313	2/25/04	<2.00	2	155949	5/17/04	<2.00	2
o-Xylene	Water	S-8260B	153313	2/25/04	<1.00	1	155949	5/17/04	<1.00	1
Toluene	Water	S-8260B	153313	2/25/04	<1.00	1	155949	5/17/04	<1.00	1

MW-2

Analyte	Matrix	Method Taken	1 st Quarter				2 nd Quarter			
			Sample No.	Date Taken	$\mu\text{g/L}$		Sample No.	Date Taken	$\mu\text{g/L}$	
					Result	Detection Limit			Result	Detection Limit
Benzene	Water	S-8260B	153314	2/25/04	<1.00	1	155950	5/17/04	<1.00	1
Ethylbenzene	Water	S-8260B	153314	2/25/04	<1.00	1	155950	5/17/04	<1.00	1
M,p-Xylene	Water	S-8260B	153314	2/25/04	<2.00	2	155950	5/17/04	<2.00	2
o-Xylene	Water	S-8260B	153314	2/25/04	<1.00	1	155950	5/17/04	<1.00	1
Toluene	Water	S-8260B	153314	2/25/04	<1.00	1	155950	5/17/04	<1.00	1

MW-3

Analyte	Matrix	Method Taken	1 st Quarter				2 nd Quarter			
			Sample No.	Date Taken	$\mu\text{g/L}$		Sample No.	Date Taken	$\mu\text{g/L}$	
					Result	Detection Limit			Result	Detection Limit
Benzene	Water	S-8260B	153315	2/25/04	<1.00	1	155951	5/17/04	<1.00	1
Ethylbenzene	Water	S-8260B	153315	2/25/04	<1.00	1	155951	5/17/04	<1.00	1
M,p-Xylene	Water	S-8260B	153315	2/25/04	<2.00	2	155951	5/17/04	<2.00	2
o-Xylene	Water	S-8260B	153315	2/25/04	<1.00	1	155951	5/17/04	<1.00	1
Toluene	Water	S-8260B	153315	2/25/04	<1.00	1	155951	5/17/04	<1.00	1

Table 2. 3rd & 4th Quarter 2004 Sampling Reports
6" Central Battery Idle Line
BTEX: S-8260B Method

MW-1

Analyte	Matrix	Method Taken	<u>3rd Quarter</u>				<u>4th Quarter</u>			
			Sample No.	Date Taken	Sample No.		Sample No.	Date Taken	<u>µg/L</u>	
									Result	Detection Limit
Benzene	Water	S-8260B					51612	12/27/04	<1.00	1
Ethylbenzene	Water	S-8260B					51612	12/27/04	<1.00	1
M,p-Xylene	Water	S-8260B					51612	12/27/04	<1.00	1
o-Xylene	Water	S-8260B					51612	12/27/04	<1.00	1
Toluene	Water	S-8260B					51612	12/27/04	<1.00	1

MW-2

Analyte	Matrix	Method Taken	<u>3rd Quarter</u>				<u>4th Quarter</u>			
			Sample No.	Date Taken	<u>µg/L</u>		Sample No.	Date Taken	<u>µg/L</u>	
					Result	Detection Limit			Result	Detection Limit
Benzene	Water	S-8260B					51610	12/27/04	<1.00	1
Ethylbenzene	Water	S-8260B					51610	12/27/04	<1.00	1
M,p-Xylene	Water	S-8260B					51610	12/27/04	<1.00	1
o-Xylene	Water	S-8260B					51610	12/27/04	<1.00	1
Toluene	Water	S-8260B					51610	12/27/04	<1.00	1

MW-3

Analyte	Matrix	Method Taken	<u>3rd Quarter</u>				<u>4th Quarter</u>			
			Sample No.	Date Taken	<u>µg/L</u>		Sample No.	Date Taken	<u>µg/L</u>	
					Result	Detection Limit			Result	Detection Limit
Benzene	Water	S-8260B					51611	12/27/04	<1.00	1
Ethylbenzene	Water	S-8260B					51611	12/27/04	<1.00	1
M,p-Xylene	Water	S-8260B					51611	12/27/04	<1.00	1
o-Xylene	Water	S-8260B					51611	12/27/04	<1.00	1
Toluene	Water	S-8260B					51611	12/27/04	<1.00	1



Highway 8

Telephone Wire

MW-3

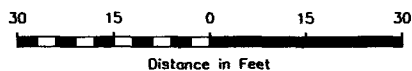
MW-2

Plains Pipeline

Buried Plains Pipeline

Unimproved Road

MW-1



32° 36' 13.17"
103° 18' 55.29"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

- | | |
|---|----------------|
| ○ Monitor Well | — Pipeline |
| (R24.25) Groundwater Elevation (feet) | ND Not Detect |
| 0.004 ft Groundwater Gradient Direction and magnitude | NS Not Sampled |
| □ Excavated Area | |

Figure 1
Site Map
Plains Marketing, L.P.
6" Central Battery Idle Line
Lee Co., New Mexico



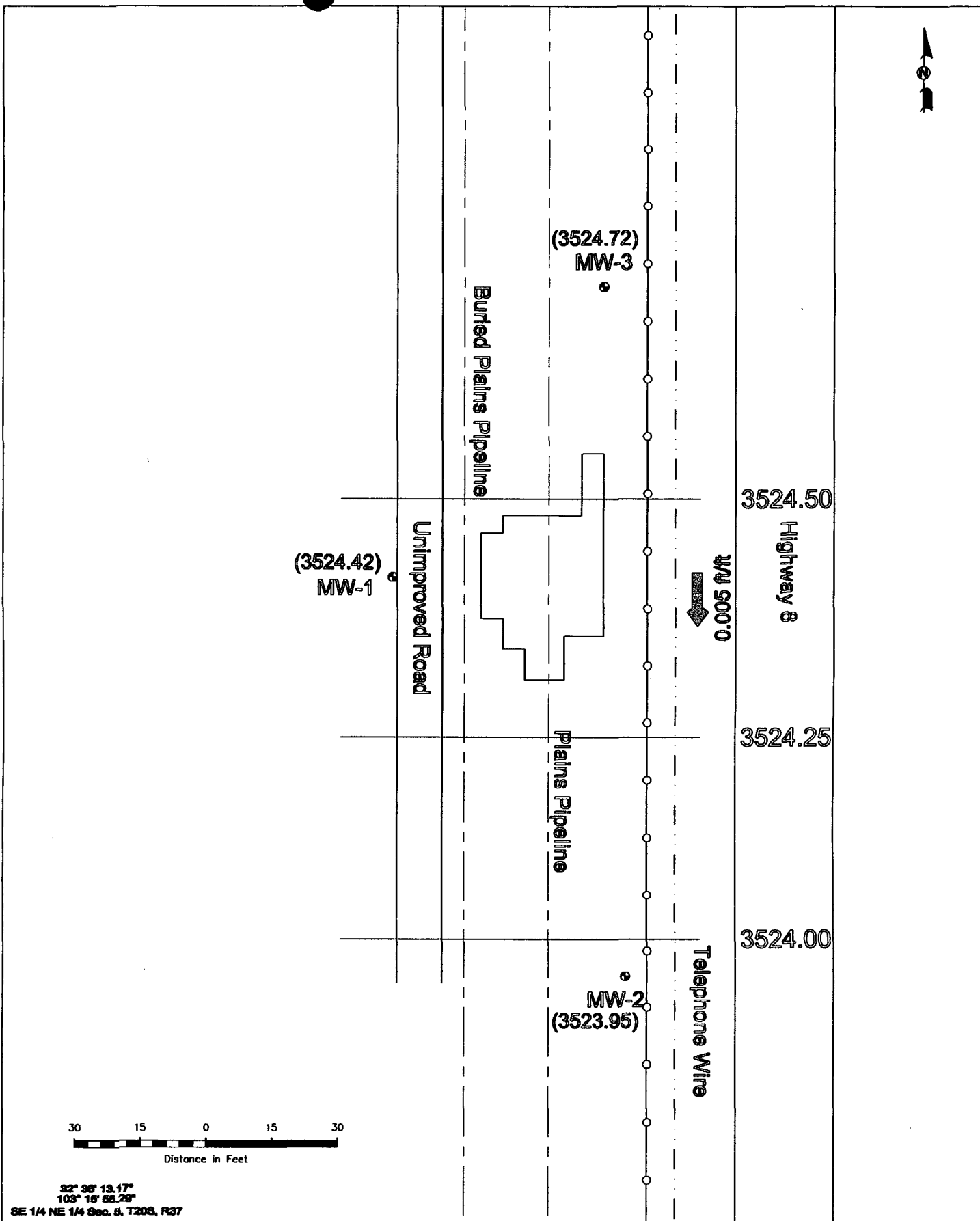
BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'

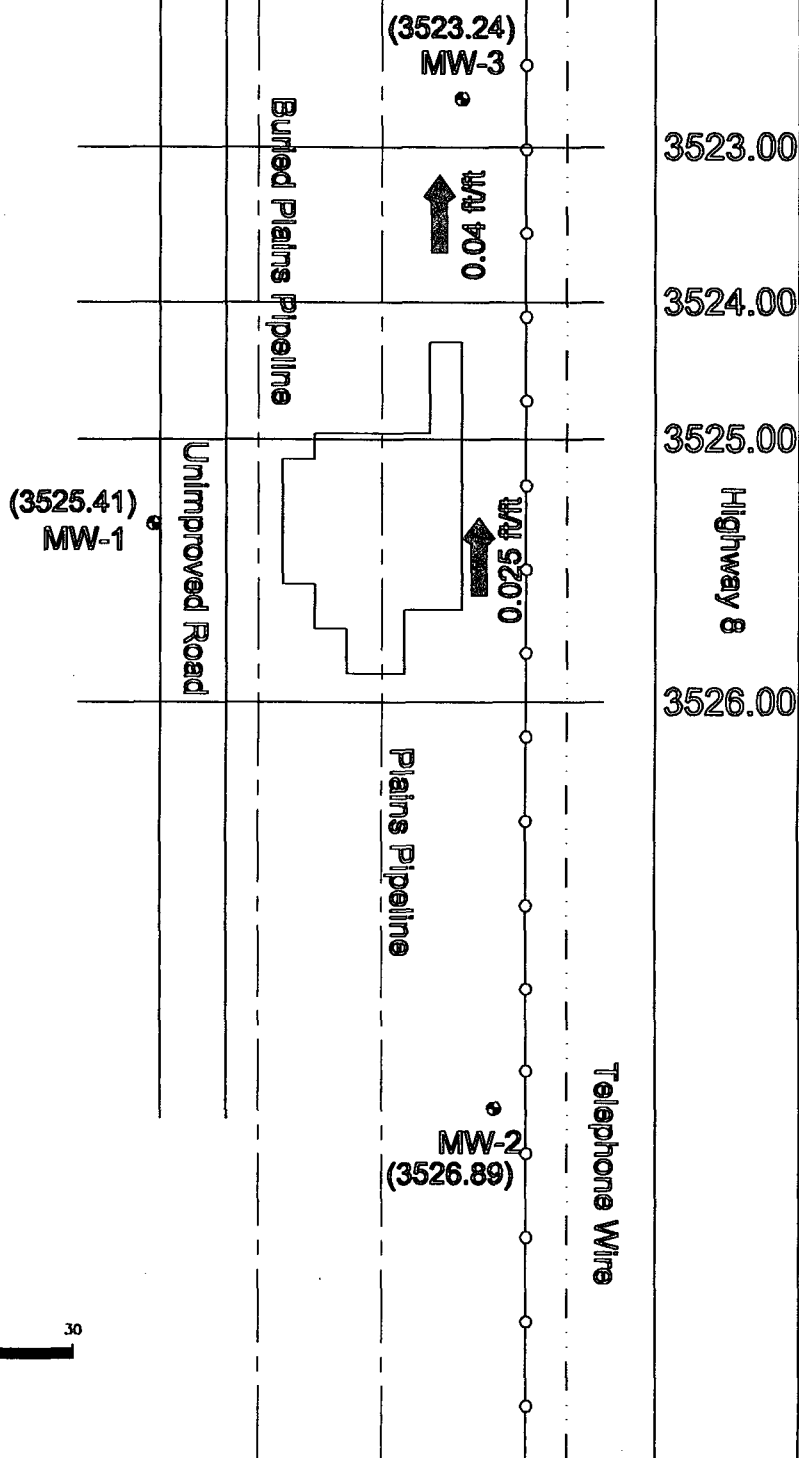
Prep By: LA

Checked By: CS

March 10, 2005



LEGEND: ● Monitor Well (3524.50) Ground water Elevation (inferred) 0.004 ft/ft Groundwater Gradient Direction and magnitude □ Estimated Area		— Pipeline ND Not Detect NS Not Sampled		Figure 2 Inferred Groundwater Gradient Map (2/25/04) 1st Quarter Plains Marketing, L.P. 6th Central Battery Mile Line Lee Co., New Mexico	 BBC INTERNATIONAL World-Wide Environmental Specialists Hobbs, New Mexico	Scale: 1" = 30' March 10, 2005	Prep By: LA Checked By: CS
---	--	---	--	---	---	-----------------------------------	-------------------------------



32° 38' 13.17"
103° 10' 55.29"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

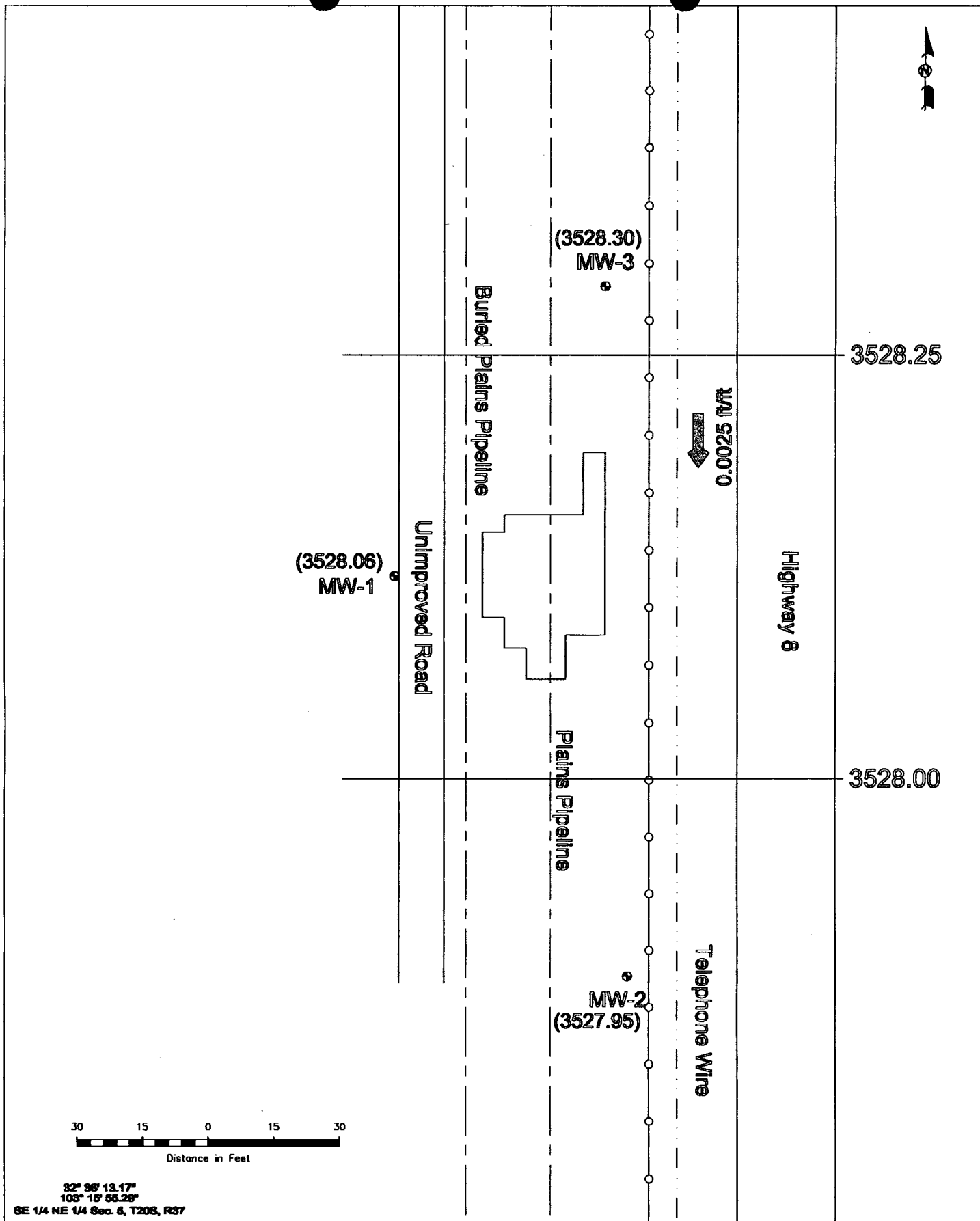
- | | |
|--|----------------|
| ○ Monitor Well | — Pipeline |
| (3524.33) Ground water Elevation (Inferred) | ND Not Detect |
| 0.004 ft/ft Groundwater Gradient Direction and magnitude | NS Not Sampled |
| □ Estimated Area | |

Figure 3
Inferred Groundwater
Gradient Map (5/17/04)
2nd Quarter
Plains Marketing, L.P.
6" Central Battery Idle Line
Lea Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'	Prep By: LA	Checked By: CB
March 10, 2005		



LEGEND:

- | | |
|--|-----------------|
| ● Monitor Well | — Pipeline |
| (3528.30) Ground water Elevation (Inferred) | ND Not Detected |
| 0.004 ft/ft Groundwater Gradient Direction and magnitude | NS Not Sampled |
| □ Excavated Area | |

Figure 4
Inferred Groundwater
Gradient Map (12/27/04)
4th Quarter
Plains Marketing, L.P.
6th Central Battery Idle Line
Lea Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'	Prep By: LA	Checked By: GS
March 13, 2005		



Highway 8

Telephone Wire

ND
MW-3

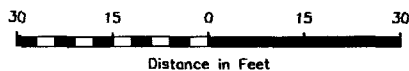
MW-2
ND

Buried Plains Pipeline

Plains Pipeline

Unimproved Road

ND
MW-1



32° 36' 13.17"
103° 16' 55.25"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

- | | |
|--|-----------------|
| ○ Monitor Well | — Pipeline |
| (824.25) Groundwater Elevation (refused) | ND Not Detected |
| 0.004 R/S Groundwater Gradient Direction and magnitude | NS Not Sampled |
| □ Excavated Area | |

Figure 5
STEX Concentration
(2/25/04)
1st Quarter
Plains Marketing, L.P.
6" Central Battery Idle Line
Lea Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'	Prep By: LA	Checked By: OS
March 10, 2005		



Highway 8

Telephone Wire

ND
MW-3

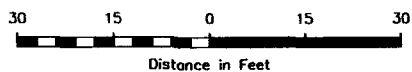
MW-2
ND

Buried Plains Pipeline

Plains Pipeline

Unimproved Road

ND
MW-1



32° 36' 13.17"
103° 18' 55.25"
SE 1/4 NE 1/4 Sec. 8, T20S, R37

LEGEND:

- | | |
|--|----------------|
| ○ Monitor Well | — Pipeline |
| (BGLSS) Groundwater Elevation (feet) | ND Not Detect |
| 0.004 ft/ft Groundwater Gradient Direction and magnitude | NS Not Sampled |
| □ Excavated Area | |

Figure 6
BTEX Concentration
(5/17/04)
2nd Quarter
Plains Marketing, L.P.
6" Central Battery Idle Line
Lea Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'	Prep By: LA	Checked By: CB
March 10, 2005		



Highway 8

Telephone Wire

ND
MW-3

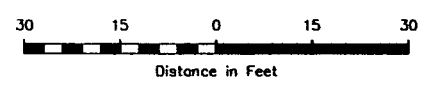
MW-2
ND

Buried Plains Pipeline

Plains Pipeline

Unimproved Road

ND
MW-1



32° 36' 13.17"
103° 16' 56.28"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

- | | |
|--|----------------|
| ○ Monitor Well | — Pipeline |
| (3024.53) Ground water Elevation (Inferred) | ND Not Detect |
| 0.004 ft/ft Groundwater Gradient Direction and magnitude | NS Not Sampled |
| □ Excavated Area | |

Figure 7
BTEX Concentration
(12/27/04)
4th Quarter
Plains Marketing, L.P.
6" Central Battery Idle Line
Lee Co., New Mexico



BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

Scale: 1" = 30'	Prep By: LA	Checked By: CB
March 13, 2005		

APPENDIX I

Laboratory Results
1st Quarter 2004

6 Inch Central Battery Idle Line

April 2005

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, 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: Camille Reynolds
Address: 2540 W. Marland
Hobbs

NM 88240

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

Report#/Lab ID#: 153313 Report Date: 03/03/04

Project ID: LI-2107 6" Central Batt Idle Line

Sample Name: MW-1

Sample Matrix: water

Date Received: 02/27/2004 Time: 08:00

Date Sampled: 02/25/2004 Time: 15:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

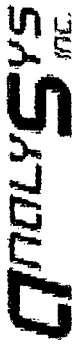
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		03/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	03/02/04	8260b	---	0.6	101.4	96.2	97
Ethylbenzene	<1	µg/L	1	<1	03/02/04	8260b	---	2.8	117.7	115.6	112.4
m,p-Xylenes	<2	µg/L	2	<2	03/02/04	8260b	---	2.6	114.2	110.9	109.4
o-Xylene	<1	µg/L	1	<1	03/02/04	8260b	---	2.1	123.5	111.1	119.8
Toluene	<1	µg/L	1	<1	03/02/04	8260b	---	1.7	107.4	102.6	104.7

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Respectfully Submitted,

Richard Elton

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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	Project ID: LI-2107 6" Central Batt Idle Line	Report#/Lab ID#: 153313
Attn: Camille Reynolds	Sample Name: MW-1	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	74-124	---
Toluene-d8	8260b	110	89-115	---

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



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: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 153314 **Report Date:** 03/03/04
Project ID: LI-2107 6" Central Batt Idle Line
Sample Name: MW-2
Sample Matrix: water
Date Received: 02/27/2004 **Time:** 08:00
Date Sampled: 02/25/2004 **Time:** 15:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		03/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	03/02/04	8260b	---	2.9	94.7	94.5	100.4
Ethylbenzene	<1	µg/L	1	<1	03/02/04	8260b	---	5.3	111.3	117.5	115.7
m,p-Xylenes	<2	µg/L	2	<2	03/02/04	8260b	---	6.7	110.2	114.6	113.3
o-Xylene	<1	µg/L	1	<1	03/02/04	8260b	---	4	107.6	113.4	122.4
Toluene	<1	µg/L	1	<1	03/02/04	8260b	---	1.3	100.7	100.4	100.9

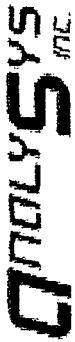
QUALITY ASSURANCE DATA¹

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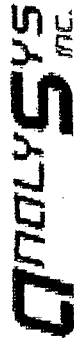
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Camille Reynolds	Project ID: LI-2107 6" Central Batt Idle Line Sample Name: MW-2	Report#/Lab ID#: 153314 Sample Matrix: water
--	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	96.2	74-124	---
Toluene-d8	8260b	112	89-115	---

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



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: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 153315 Report Date: 03/03/04
Project ID: LI-2107 6" Central Batt Idle Line
Sample Name: MW-3
Sample Matrix: water
Date Received: 02/27/2004 Time: 08:00
Date Sampled: 02/25/2004 Time: 16:00

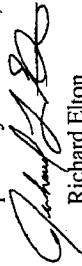
REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

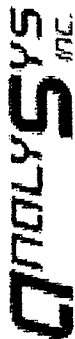
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		03/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	03/02/04	8260b	---	0.6	101.4	96.2	97
Ethylbenzene	<1	µg/L	1	<1	03/02/04	8260b	---	2.8	117.7	115.6	112.4
m,p-Xylenes	<2	µg/L	2	<2	03/02/04	8260b	---	2.6	114.2	110.9	109.4
o-Xylene	<1	µg/L	1	<1	03/02/04	8260b	---	2.1	123.5	111.1	119.8
Toluene	<1	µg/L	1	<1	03/02/04	8260b	---	1.7	107.4	102.6	104.7

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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	Project ID: LJ-2107 6" Central Batt Idle Line	Report#/Lab ID#: 153315
Attn: Camille Reynolds	Sample Name: MW-3	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	96.6	74-124	---
Toluene-d8	8260b	106	89-115	---

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

1483

ANALYSIS inc.

www.analy-inc.com

CHAIN- CUSTODY

2512 Madison Drive, Suite 100
 22000 E. Lake Union Dr., Suite 100
 22000 E. Lake Union Dr., Suite 100

Bill To (if different):
 Company Name: **Link**
 Address:
 City: State: Zip:
 ATTN: Phone: Fax:

Send Reports To:
 Company Name: **Environmental Technology Group Inc.**
 Address: **2540 W. Northland**
 City: **Holts** State: **NM** Zip: **88240**
 ATTN: **Camille Reynolds**
 Phone: **(505) 397-4882** Fax: **(505) 397-4701**
 Project Name/ID #: **LA 2107** Sampler: **Cody Fisher**

Client Sample No. Description/Identification
 mw-1
 mw-2
 mw-3

Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab ID # (Lab Only)
2-25-04	3:00	2			153313
2-25-04	3:30	2			153314
2-25-04	4:00	2			153315

No. of Containers and Preservative (TRRP-13 Mandatory)	Matrix	Analyze For
HNO3 X X HCL ZnAc/NaOH H2SO4 Glass None Other (Specify)	Wastewater Waste Soil Other (Specify)	Analyze For

XXX BTEX BOD15

Special Instructions (such as special QC requirements, lists, methods, etc.)

Temp. range
 up to 100°C
 to 100°C not with
 100°C
 100°C

T: 25°C

✓

Sample Received By

Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Cody Fisher	ETGI	2-25-04		<i>[Signature]</i>	ASI	2/27/04	0800

I hereby certify that the above described samples to Analy Sys. Inc. for analytical testing constitutes agreement by buyer/supplier to Analy Sys. Inc.'s standard terms of

APPENDIX II

Laboratory Results
2nd Quarter 2004

6 Inch Central Battery Idle Line

April 2005

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report# / Lab ID#: 155949 **Report Date:** 05/25/04
Project ID: PL 2107 6" Central Battery
Sample Name: MW-1
Sample Matrix: water
Date Received: 05/21/2004 **Time:** 12:30
Date Sampled: 05/17/2004 **Time:** 15:00

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
Volatiles organics-8260b/BTEX	---		---		05/25/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/25/04	8260b	---	2.6	93.3	88.9	93.4
Ethylbenzene	<1	µg/L	1	<1	05/25/04	8260b	---	5.8	112.5	108.3	108.4
m,p-Xylenes	<2	µg/L	2	<2	05/25/04	8260b	---	3.7	110.1	107.2	108.5
o-Xylene	<1	µg/L	1	<1	05/25/04	8260b	---	4.2	119.4	115.6	117.2
Toluene	<1	µg/L	1	<1	05/25/04	8260b	---	6	100.5	96.9	101.6

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Richard Elton

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Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: PL 2107 6" Central Battery
Sample Name: MW-1

Report#/Lab ID#: 155949
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
1,2-Dichloroethane-d4	8260b	85.9	74-124	---
Toluene-d8	8260b	115	89-115	---

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

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report# / Lab ID#: 155950 **Report Date:** 05/25/04
Project ID: PL 2107 6" Central Battery
Sample Name: MW-2
Sample Matrix: water
Date Received: 05/21/2004 **Time:** 12:30
Date Sampled: 05/17/2004 **Time:** 16:00

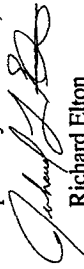
REPORT OF ANALYSIS

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	---		---		05/25/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/25/04	8260b	---	2.6	93.3	88.9	93.4
Ethylbenzene	<1	µg/L	1	<1	05/25/04	8260b	---	5.8	112.5	108.3	108.4
m,p-Xylenes	<2	µg/L	2	<2	05/25/04	8260b	---	3.7	110.1	107.2	108.5
o-Xylene	<1	µg/L	1	<1	05/25/04	8260b	---	4.2	119.4	115.6	117.2
Toluene	<1	µg/L	1	<1	05/25/04	8260b	---	6	100.5	96.9	101.6

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Richard Elton

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Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: PL 2107 6" Central Battery
Sample Name: MW-2

Report#/Lab ID#: 155950
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
1,2-Dichloroethane-d4	8260b	84.9	74-124	---
Toluene-d8	8260b	114	89-115	---

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

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 155951 **Report Date:** 05/26/04
Project ID: PL 2107 6" Central Battery
Sample Name: MW-3
Sample Matrix: water
Date Received: 05/21/2004 **Time:** 12:30
Date Sampled: 05/17/2004 **Time:** 17:00

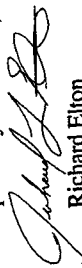
REPORT OF ANALYSIS

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	---		---		05/25/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/25/04	8260b	---	0.3	93.5	95.8	103.6
Ethylbenzene	<1	µg/L	1	<1	05/25/04	8260b	---	0.9	109.9	112.8	119.8
m,p-Xylenes	<2	µg/L	2	<2	05/25/04	8260b	---	0.4	112.7	112.9	121.1
o-Xylene	<1	µg/L	1	<1	05/25/04	8260b	---	1.5	126.2	115	138.8
Toluene	<1	µg/L	1	<1	05/25/04	8260b	---	4.3	97.7	101	116.3

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,


Richard Elton

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). 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.

Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: PL 2107 6" Central Battery
Sample Name: MW-3

Report#/Lab ID#: 155951
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
1,2-Dichloroethane-d4	8260b	102	74-124	---
Toluene-d8	8260b	97.6	89-115	---

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

WWW.ANALVSYSINC.COM

Bill to (if different):

Company Name Plains

Address

City _____ State _____ Zip _____

ATTN:

Phone _____ Fax _____

Codyfisher

6" Central Battery

[illegible]

(1) Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using AST's method of choice and all data will be reported to AST'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, AST will default to Priority Pollutants or AST's HSL list at AST'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
Colquhoun	E-76I	5-17-04		St. Hyman	ASI	5/21/04	1230

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

APPENDIX III

Laboratory Results
4th Quarter 2004

6 Inch Central Battery Idle Line

April 2005

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

Summary Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: January 3, 2005

Work Order: 4122808

Project Location: Monument
Project Name: 6 Inch Central Battery Idle Line

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
51610	MW #2	water	2004-12-27	09:35	2004-12-28
51611	MW #3	water	2004-12-27	10:05	2004-12-28
51612	MW #1	water	2004-12-27	10:30	2004-12-28

Sample: 51610 - MW #2

Param	Flag	Result	Units	RL
Benzene		<1.00	µg/L	1.00
Toluene		<1.00	µg/L	1.00
Ethylbenzene		<1.00	µg/L	1.00
m,p-Xylene		<1.00	µg/L	1.00
o-Xylene		<1.00	µg/L	1.00

Sample: 51611 - MW #3

Param	Flag	Result	Units	RL
Benzene		<1.00	µg/L	1.00
Toluene		<1.00	µg/L	1.00
Ethylbenzene		<1.00	µg/L	1.00
m,p-Xylene		<1.00	µg/L	1.00
o-Xylene		<1.00	µg/L	1.00

Sample: 51612 - MW #1

Param	Flag	Result	Units	RL
Benzene		<1.00	µg/L	1.00
Toluene		<1.00	µg/L	1.00
Ethylbenzene		<1.00	µg/L	1.00
m,p-Xylene		<1.00	µg/L	1.00
o-Xylene		<1.00	µg/L	1.00

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
155 McCutcheon, Suite H

Lubbock, Texas 79424
El Paso, Texas 79932

800•378•1296
888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

Analytical and Quality Control Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: January 3, 2005

Work Order: 4122808

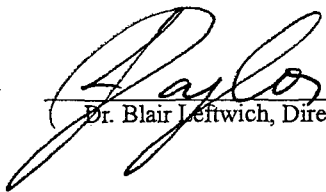
Project Location: Monument
Project Name: 6 Inch Central Battery Idle Line
Project Number: Monument

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
51610	MW #2	water	2004-12-27	09:35	2004-12-28
51611	MW #3	water	2004-12-27	10:05	2004-12-28
51612	MW #1	water	2004-12-27	10:30	2004-12-28

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Analytical Report

Sample: 51610 - MW #2

Analysis: Volatiles
QC Batch: 15072
Prep Batch: 13295
Comment: BTEX Only

Analytical Method: S 8260B
Date Analyzed: 2005-01-02
Date Prepared: 2005-01-02

Prep Method: S 5030B
Analyzed By: JG
Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.8	µg/L	1	50.0	94	70 - 130
Toluene-d8		44.5	µg/L	1	50.0	89	70 - 130
4-Bromofluorobenzene (4-BFB)		42.8	µg/L	1	50.0	86	70 - 130

Sample: 51611 - MW #3

Analysis: Volatiles
QC Batch: 15072
Prep Batch: 13295
Comment: BTEX Only

Analytical Method: S 8260B
Date Analyzed: 2005-01-02
Date Prepared: 2005-01-02

Prep Method: S 5030B
Analyzed By: JG
Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.5	µg/L	1	50.0	95	70 - 130
Toluene-d8		44.3	µg/L	1	50.0	89	70 - 130
4-Bromofluorobenzene (4-BFB)		43.1	µg/L	1	50.0	86	70 - 130

Sample: 51612 - MW #1

Analysis: Volatiles
QC Batch: 15072
Prep Batch: 13295
Comment: BTEX Only

Analytical Method: S 8260B
Date Analyzed: 2005-01-02
Date Prepared: 2005-01-02

Prep Method: S 5030B
Analyzed By: JG
Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.2	µg/L	1	50.0	94	70 - 130
Toluene-d8		44.6	µg/L	1	50.0	89	70 - 130
4-Bromofluorobenzene (4-BFB)		43.9	µg/L	1	50.0	88	70 - 130

Method Blank (1) QC Batch: 15072

Parameter	Flag	Result	Units	RL
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-Methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-Hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	Result	Units	RL
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene (meta)		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	5
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.1	µg/L	1	50.0	92	70 - 130
Toluene-d8		44.8	µg/L	1	50.0	90	70 - 130
4-Bromofluorobenzene (4-BFB)		43.7	µg/L	1	50.0	87	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 15072

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
1,1-Dichloroethene	77.8	80.4	µg/L	1	100	<0.136	78	3	70 - 130	20
Benzene	82.1	83.2	µg/L	1	100	<0.146	82	1	70 - 130	20
Trichloroethene (TCE)	95.6	96.7	µg/L	1	100	<0.117	96	1	70 - 130	20
Toluene	91.8	93.3	µg/L	1	100	<0.0600	92	2	70 - 130	20

continued ...

control spikes continued ...

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chlorobenzene	92.9	95.7	µg/L	1	100	<0.0540	93	3	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	45.2	45.3	µg/L	1	50.0	90	91	70 - 130
Toluene-d8	44.6	44.8	µg/L	1	50.0	89	90	70 - 130
4-Bromofluorobenzene (4-BFB)	44.0	44.2	µg/L	1	50.0	88	88	70 - 130

Standard (CCV-1) QC Batch: 15072

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	41.1	82	80 - 120	2005-01-02
1,1-Dichloroethene		µg/L	50.0	46.6	93	80 - 120	2005-01-02
Chloroform		µg/L	50.0	45.3	91	80 - 120	2005-01-02
1,2-Dichloropropane		µg/L	50.0	43.6	87	80 - 120	2005-01-02
Toluene		µg/L	50.0	51.4	103	80 - 120	2005-01-02
Chlorobenzene		µg/L	50.0	52.7	105	80 - 120	2005-01-02
Ethylbenzene		µg/L	50.0	51.8	104	80 - 120	2005-01-02

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6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296
email: lab@traceanalysis.com

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4127808

Company Name: *BBC International*
 Address: *(Street, City, Zip)
 1324 W. MARLAND*
 Contact Person: *CLIFF BRUNSON*
 Invoice to:
 (if different from above)
 Project #:
 Project Name: *6" Central Battery Idle Line*
 Project Location: *Monument*
 Phone #: *(505) 397 6388*
 Fax #: *(505) 397 0397*
 e-mail:
 Sampler Signature: *Ryan Kernan*

[illegible]

Relinquished by: <i>Rafael J. Hernandez</i>	Date: <i>11-27-04</i>	Time: <i>4:00pm</i>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: <i>Brenda Ward</i>	Date: <i>12/28/04</i>	Time: <i>10:41</i>

	MTBE	8021B/602
	BTEX	8021B/602
	TPH	418.1/TX1005
	TX	1005 Extended (C35)
	PAH	8270C
	Total Metals	Ag As Ba Cd Cr Pb Se Hg 6010B/200.7
	TCLP Metals	Ag As Ba Cd Cr Pb Se Hg
	TCLP Volatiles	
	TCLP Semi Volatiles	
	TCLP Pesticides	
	FCI	
	G/CMS Vol.	8260B/BTEX
	G/CMS Semi.	Vol. 8270C/625
	PCB's	8082/608
	Pesticides	8081A/608
	BOD, TSS,	pH
	Moisture Content	
	Turn Around Time	if different from standard
	Hold	

LAB USE ONLY Intact <u>YIN</u> Headspace <u>Y</u> <u>N</u> Temp <u>4°C</u> Log-in Review <u>JMA</u>	REMARKS:
	☐ Dry Weight Basis Required ☐ TRRP Report Required ☐ Check If Special Reporting Limits Are Needed 1145p

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

APPENDIX IV

FORM C-141

6 Inch Central Battery Idle Line

April 2005

**Plains Marketing, L.P.
Houston, Texas**

**Prepared by:
BBC International, Inc.**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised June 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	ETT Energy LLC	Contact	FRANK Hernandez
Address	5805 East Highway 80, Midland	Telephone No.	(505) 631-3095
Facility Name	6 inch Central Battery TX 79701	Facility Type	6 inch pipeline
Surface Owner	Jimmie Cooper	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	5	20S	37E	-	-	-	-	Lea

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	25 barrels	Volume Recovered	0 barrels
Source of Release	6 inch pipeline	Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	7-24-03 8:30 AM		
By Whom?		Date and Hour			
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Corrosion of 6 inch pipeline. Visually stained soil excavated

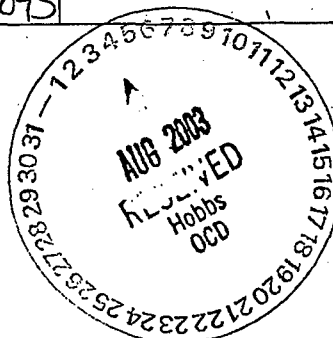
Describe Area Affected and Cleanup Action Taken.*

25'x10' visually stained soil excavated and stockpiled on-site

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>[Signature]</i>		OIL CONSERVATION DIVISION	
Printed Name: F. Hernandez		Approved by District Supervisor:	
Title: Environmental Coordinator		Approval Date:	Expiration Date:
E-mail Address:		Conditions of Approval:	Attached ☐
Date: 8/4/03	Phone: (505) 631-3095		

* Attach Additional Sheets If Necessary



**PRELIMINARY SITE INVESTIGATION REPORT
AND
REMEDATION WORK PLAN**

6-Inch Central Battery Idle Line
Lea County, New Mexico
SE ¼, NE ¼ of Section 5, Township 20 South, Range 37 East
Latitude 32° 36' 13.17" North,
Longitude 103° 15' 55.29" West

IR-407

Prepared For:
Plains Pipeline, L.P.
333 Clay Street, Suite 600
Houston, Texas 77002

RECEIVED

AUG 10 2004

**Oil Conservation Division
Environmental Bureau**

Plains EMS Number: 2003-00207

Prepared By:
Nova Safety and Environmental
2057 Commerce Drive
Midland, Texas 79703

July, 2004


Todd K. Choban
Vice President-Technical Services

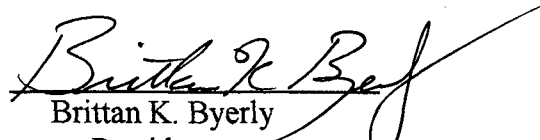

Brittan K. Byerly
President

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FIGURE 1:	Site Location Map
FIGURE 2:	Site Map
FIGURE 3:	Inferred Groundwater Gradient Map

Appendices

APPENDIX A:	Soil Boring Logs
APPENDIX B:	Laboratory Reports
APPENDIX C:	Water Well Survey

CHRONOLOGY OF EVENTS

July 29, 2003	Initial Response Conducted, Excavation of Visually Stained Soil
July 30, 2003	Soil Samples Collected of Stockpiled Soil
July 31, 2003	Conducted Additional Excavation of Site, Confirmation Soil Samples Collected of Excavation Bottom and Sidewalls
August 1, 2003	Soil Sample Collected of Stockpiled Soil
August 8, 2003	Approximately 324 Cubic Yards of Soil Transported to C&C Landfarm
August 26, 27 2003	Installation of 3 Groundwater Monitor Wells MW-1 through MW-3
August 29, 2003	Groundwater Monitor Wells Developed
September 12, 2003	Initial Groundwater Sampling Event
December 4, 2003	Groundwater Sampling Event
February 25, 2004	Groundwater Sampling Event
April 1, 2004	Annual Monitoring Report Submitted to NMOCD
May 29, 2004	Plains transfers project management duties of site from ETGI to NOVA
July, 2004	Preliminary Site Assessment and Remediation Work Plan submitted to the OCD for review and approval.

1.0 INTRODUCTION

Nova Safety and Environmental (NOVA), on behalf of Plains Pipeline, L.P. (Plains), is pleased to submit this *Preliminary Site Investigation Report and Remediation Work Plan* as a summary of activities completed to date as well as establishing proposed future actions to be conducted at the 6 Inch Central Battery Idle Line release site in Lea County, New Mexico. NOVA took over project management duties for site activities from Environmental Technology Group, Inc. (ETGI) on May 29, 2004. For reference, a Site Location Map and Site Map are provided as Figures 1 and 2, respectively. Activities completed to date include investigation of the vertical and horizontal extent of the crude oil release at the site. The proposed remediation work plan included in this document has been designed to complete the vertical and horizontal delineation of soil impacted by the crude oil release. In addition, the included work plan proposes remedial actions designed to achieve clean up criteria established by the New Mexico Oil Conservation Division (NMOCD).

The site is located approximately 1.5 miles south of the town of Monument, New Mexico, in the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 5, Township 20 South, Range 37 East, in Lea County, New Mexico. The release resulted in an irregularly shaped surface stain measuring approximately 25 feet in length by 10 feet in width. As required by the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*, dated August 1993 (NMOCD, 1993), Link Energy has conducted emergency response and preliminary site assessment activities as summarized in Section 2.0 below. Please note that as of April 1, 2004, Plains purchased the assets of Link Energy.

The remediation work plan, as outlined in this document, will serve as a Supplement to the *General Work Plan for Remediation of Link Pipeline Spills, Leaks and Releases in New Mexico* (GWPR) approved by NMOCD on August 1, 2000. The GWPR was developed to ensure consistency of response and closure at all Link release sites. As the leak occurred prior to the pipeline transition to Plains, the Link guidelines have been maintained. The overall closure strategy for this site will be consistent with the strategy outlined in the approved GWPR. Plains intends to attain regulatory closure standards at the site by:

- Delineating the horizontal and vertical impacts to the soil and groundwater (if applicable);
- Plains will excavate and treat impacted soil on-site by shredding/blending, by land farming on site or disposal off site;
- Conduct confirmation sampling of treated soil to illustrate constituent concentrations compliance with approved site action levels. Subsequent backfilling of the excavated area with treated soil and re-seeding the surface with native grasses;
- Evaluate groundwater quality/usage by advancing a permanent groundwater monitor well to collect a sample to be analyzed for Total Dissolved Solids (TDS). If the TDS is <10,000 mg/L, submit a Stage 2 Abatement Plan designed to mitigate groundwater constituent levels to applicable New Mexico Water Quality Control Commission (WQCC) standards. If the TDS is >10,000 mg/L, prepare a Site Closure Request as per NMOCD regulations;

- Utilization of approved risk assessment methods to mitigate impacted soil and groundwater, if applicable.

Documentation supporting the aforementioned closure strategy will be submitted for NMOCD approval at the appropriate time. Upon approval of this Preliminary Site Investigation and Remediation Work Plan by NMOCD, Plains will commence remediation activities as outlined in the Work Plan.

2.0 SUMMARY OF FIELD ACTIVITIES

On July 29, 2003, ETGI was contacted by Mr. Jimmie Cooper concerning visually stained soil on his property. ETGI conducted emergency response activities consisting of excavation of the visually impacted soil surrounding the existing pipeline. Link personnel informed ETGI that the pipeline was inactive and therefore no pipeline repair was conducted. Approximately 200 cubic yards of impacted soil was stockpiled on-site following the initial excavation action. On July 31, 2003 approximately 124 cubic yards of soil was excavated and added to the existing stockpile. The excavation was completed to an approximate depth of 15 feet below the ground surface (bgs). Confirmation soil samples were collected from the sidewalls and bottom of the excavation. Approximately 324 cubic yards of soil was transported to C&C Landfarm in Monument, New Mexico for disposal.

An air-rotary drilling rig was mobilized to the site on August 26, 2003 to evaluate potential crude oil impact to groundwater as a result of the release. The locations of the groundwater monitor wells are depicted on Figure 2 and the boring logs are provided as Appendix A. As indicated on Figure 2, monitor well MW-1 was positioned to evaluate the horizontal extent of groundwater impact to the west of the pipeline. Monitor well MW-2 was positioned to the southeast of the release point in a relative down gradient location. Monitor well MW-3 was positioned to the north of the release in a relative up gradient position. The groundwater monitor wells were completed to a maximum depth of approximately 51 feet bgs. Groundwater was encountered at a depth of approximately 36 to 37 feet bgs. During the boring process, soil samples were collected at five-foot intervals utilizing a split spoon-sampling tool. Soil samples collected during the installation of the groundwater monitor wells were field screened with a photoionization detector (PID) calibrated to a 100-ppm isobutylene standard. Each sample collected was visually inspected and described as to soil type, grain size, sorting characteristics, odor and staining present. Soil samples collected during the installation of groundwater monitor well MW-2 did not exhibit any visual signs of staining, olfactory evidence or elevated PID readings. The soil samples collected during the installation of groundwater monitor well MW-1 exhibited a slight odor and slight visual staining with no elevated PID readings down to an approximate depth of 35 feet bgs, the remaining soil samples collected from this boring did not exhibit evidence of hydrocarbon impact. Soil samples collected during the installation of groundwater monitor well MW-3 exhibited a slight odor with slight visual staining and a PID reading of 145 ppm at an approximate depth of 35 feet bgs. The remaining soil samples collected during the installation of groundwater monitor well MW-3 did not exhibit evidence of hydrocarbon impact (Appendix A). All groundwater monitor wells were completed so as to comply with all applicable NMOCD requirements regarding groundwater monitor wells.

The groundwater monitor wells were manually developed with a disposable (1.38" x 48") bailer on August 29, 2003. The development water was stored in 55 gallon sealed drums until it was disposed of by Lobo Trucking, Hobbs, New Mexico at a licensed disposal facility (NMOCD AO SWD-730). The groundwater monitor wells were subsequently gauged and sampled on September 12, 2003.

Soil samples submitted to the laboratory were analyzed for Total Petroleum Hydrocarbons – Gasoline Range Organics/Diesel Range Organics (TPH-GRO/DRO) concentrations utilizing EPA Method SW 846-8015M and Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX), constituent concentrations utilizing EPA Method SW 846-8021B, 5030. Groundwater samples were analyzed for BTEX constituents using EPA Method 8021B/5030; Poly Aromatic Hydrocarbons (PAH), Total Dissolved Solids (TDS), anions and cations using EPA Methods 8100, 160.1, SM 2320, 375.4, and 325.2; and WQCC Metals using Method 6010/200.7. Results of laboratory analysis of the soil and groundwater samples are summarized in Tables 1 through 5 and copies of the laboratory reports are provided as Appendix B.

The New Mexico Office of the State Engineer's (NMOSE) Water Well Database was accessed for information on area well locations and the average depth to groundwater in the area. The database indicated that there were one hundred and fourteen registered water wells within a one-mile radius of the site. The average depth to groundwater as determined from these wells is 33 feet bgs. A copy of the NMOSE Water Well Report is provided in Appendix C. Based on field data collected during groundwater sampling activities, the on-site groundwater gradient trends to the south as shown on Figure 3, Groundwater Gradient Map. For reference, cumulative groundwater elevation data collected during the groundwater sampling activities is provided in Table 6.

3.0 SITE DESCRIPTION

3.1 Regional Geology/Hydrogeology

In the site vicinity, the surface is composed of unconsolidated, wind blown sands and finer materials associated with the Tertiary Aged Ogallala Formation, which serves as a major aquifer for southeastern New Mexico and several high plains states. Unconfined groundwater is typically present in these sands at varying depths and generally flows from the north to the south. This aquifer is typically characterized by relatively high hydraulic conductivity and transmissivity.

The Ogallala is underlain by the Triassic Aged Dockum Group, locally referred to as the "red beds". While there are sand lenses within the Dockum Group, it is more typically classified as an aquitard characterized by red silt and micaceous shale in which detectable groundwater is often absent or limited in extent. Where groundwater is present, the aquitard is usually characterized by relatively low hydraulic conductivity and transmissivity.

The site is located in the Southern Desertic Basins physiographic feature as classified in the Lea County Soil Survey by the U.S. Department of Agriculture Soil Conservation Service,

January 1974. The average surface elevation in the area ranges between 3,000 to 3,900 feet above sea level with the average surface topography sloping to the south and southeast at approximately 10 feet per mile. The groundwater gradient in the region appears to reflect the topography with a similar slope to the south and southeast with some local variations. The site is located on Pyote-Maljamar-Kermit Association type soils, specifically the Wink Fine Sand soil type. This soil complex is about 30 percent Pyote, 20 percent Maljamar and about 15 percent Kermit. Palomas, Wink, Largo, Pajarito and Tonuco soils compose the remaining 35 percent. This association consists of gently undulating and rolling, well drained to excessively drained soils in upland plains areas of southern Lea County. Wink Fine Sand is moderately permeable and runoff is very slow. It has a rapid water intake and the available water holding capacity is 2 to 4 inches. Soil blowing is a severe hazard in this region.

Data collected by the United States Weather Bureau indicate that the average annual precipitation in the site vicinity is approximately 12 to 15 inches. This amount occurs primarily as storm events during the period between June and October. Infiltration and evaporation rates are generally high resulting in limited surface flow from these events. The primary utilization of these lands consists of range, wildlife habitat, and recreational areas.

3.2 Site Geology/Hydrology

At the site, the subsurface is composed primarily of unconsolidated sands, which vary in color from brown to tan. The sands are very fine grained, poorly sorted and contain calcareous nodules or caliche debris. A limited amount of caliche, common in the area, is also present at the site. A limited amount of gravel was encountered at depth. As indicated on the boring logs of the groundwater monitor wells, the average depth to groundwater is approximately 36 to 37 feet bgs (Appendix A).

3.3 New Mexico Oil Conservation Division (NMOCD) Soil Classification

Data obtained during groundwater monitor well installation activities indicate that the depth to groundwater varies between 36 and 37 feet bgs. Crude oil impacted soils were encountered in the excavated area at depths ranging from the surface to 15 feet bgs therefore, 20 points would be assigned to the site as a result of this criterion.

The water well database, maintained by the New Mexico State Engineer's Office, was accessed in order to determine the location and type of nearby water wells in the area. The data indicate that there are no domestic water wells located within 1,000 feet of the site. These site conditions result in no points assigned to the site as a result of this criterion.

As depicted on Figures 1 and 2, there are no bodies of surface water located within 1,000 feet of the site. These site conditions result in no points assigned to the site as a result of this criterion.

The NMOCD guidelines indicate that the site would have a Ranking Score of >19. The action levels for a site with a Ranking Score of >19 points are as follows:

Benzene - 10 ppm

BTEX - 50 ppm
TPH - 100 ppm

3.4 Distribution of Hydrocarbons in the Unsaturated Zone

ETGI excavated visually stained soil from the surface to an approximate depth of fifteen feet bgs. Approximately 324 cubic yards of impacted soil was excavated and disposed of at C&C Landfarm in Monument, New Mexico. Confirmation soil samples were collected from the sidewalls and bottom of the excavation. Results of laboratory analysis of the soil samples collected from the excavation indicates that soil on the north, south, east and west sidewalls are below NMOCD regulatory standards. Laboratory analysis of the soil samples collected from the bottom of the excavation at an approximate depth of fifteen feet bgs indicate that elevated TPH-GRO/DRO constituent concentrations remain in place (Table 1).

Results of laboratory analysis of the soil samples collected from groundwater monitor well MW-2 indicates that soil in this area was not impacted by the referenced release. Soil samples collected from the surface to 35 feet bgs during the installation of the monitor wells were not submitted for laboratory analysis based on field observed photoionization detector readings of 0 ppm. Based on a review of the laboratory results, soils impacted with TPH-GRO/DRO concentrations in excess of NMOCD criteria were identified in groundwater monitor well borings MW-1 and MW-3 at an approximate depth of thirty-five feet bgs.

Distribution of hydrocarbons in the unsaturated zone has been estimated by utilizing the following techniques:

- Visual observation of surface staining;
- Visual observation of subsurface soil samples, and;
- Review of laboratory analyses of soil samples.

3.5 Distribution of Contaminates in the Saturated Zone

Groundwater was encountered at depths varying from 36 to 37 feet bgs in the monitor wells completed on-site. A sheen of PSH was initially observed on the groundwater in monitor well MW-1. Subsequent gauging events indicate that the sheen of PSH has dissipated in monitor well MW-1. Review of the analytical results derived from analysis of the groundwater samples collected from monitor wells MW-1, MW-2 and MW-3 indicate that concentrations of benzene and total BTEX constituents are below applicable NMOCD regulatory standards in the on-site groundwater monitor wells as indicated on Table 2. Analytical results of the initial groundwater sampling event indicate constituents above regulatory standards for aluminum, barium, iron, manganese, chloride and naphthalene. The highest concentrations of barium, iron, manganese, chloride and naphthalene were recorded in groundwater monitor well MW-1. The highest concentration of aluminum was recorded in groundwater monitor well MW-2. These results are summarized on Tables 3, 4 and 5.

4.0 CONCLUSIONS

Excavation activities have removed the highly contaminated/saturated soils on the site attributed to the pipeline release to an approximate depth of fifteen feet bgs. The excavated soil was subsequently transported to an NMOCD approved facility for disposal. Review of the analytical report generated by laboratory analysis of soil samples collected from the excavation bottom indicate soil impacted with TPH-GRO-DRO concentrations in excess of NMOCD regulatory standards remains in place in the bottom of the excavation. Three groundwater monitor wells were advanced at the site. Laboratory results of the groundwater samples collected from the on-site three monitor wells indicate benzene and total BTEX concentrations are below applicable NMOCD regulatory standards.

A Human-Health Based Risk Assessment will be conducted to determine the methodology applicable to achieve NMOCD regulatory cleanup standards at the site. A site-specific approach will be employed to assess the probability of actual and potential exposure pathways with evaluations of the individual constituents of TPH concentrations remaining in the unexcavated soil. Analytical fate-and-transport modeling will provide a means of estimating exposure concentrations and developing risk-based soil and groundwater remediation standards. Under ASTM E-1739-95 "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites," modeling is recommended as a conservative first step under Tiers 1 and 2 of the site evaluation process, prior to use of more complex numerical modeling methods under Tier 3. Dependant upon the results of the risk assessment the excavation will be backfilled with soil transported to the site from an off-site source or a clay barrier will be placed in the excavation and backfilled.

5.0 QA/QC PROCEDURES

5.1 Soil Sampling

Samples of subsurface soils were obtained during drilling activities utilizing a split spoon sampler. Representative soil samples were divided into two separate portions using clean, disposable gloves and clean sampling tools. One portion of the soil sample was placed in a disposable sample bag. The bag was labeled and sealed for headspace analysis using a PID calibrated to a 100-ppm isobutylene standard. Each sample was allowed to volatilize for approximately thirty minutes at ambient temperature prior to conducting the analysis.

The other portion of the soil sample was placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity to limit the amount of headspace present. Each container was labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

Soil samples were delivered to AnalySys, Inc., in Austin, Texas for BTEX and TPH analyses using the methods described below. Samples were analyzed for BTEX and TPH-GRO/DRO

within fourteen days following the collection date. The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO

5.2 Groundwater Sampling

During the groundwater sampling events, the monitor wells, 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 sampler. 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 Lobo Trucking, Hobbs, New Mexico utilizing a licensed disposal facility (NMOCD AO SWD-730). Groundwater samples were delivered to AnalySys, Inc. for BTEX, PAH, WQCC Metals, Cation/Anion, and TDS analysis using the methods described below. All samples were analyzed within approved holding times following the collection date. The groundwater samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B/5030;
- PAH, TDS, anions and cations using EPA Methods 8100, 160.1, SM2320, 375.4, and 325.2 and;
- WQCC Metals using EPA Methods 6010/200.7

5.3 Decontamination of Equipment

Prior to use, the sampling equipment was cleaned with Liqui-Nox[®] detergent and rinsed with distilled water. A single-use, clear, poly-liner was utilized for collection of each sample.

5.4 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

6.0 LIMITATIONS

NOVA has prepared this Preliminary Site Investigation Report to the best of its ability. No other warranty, expressed or implied, is made or intended. NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions

referenced in this report may change over time and the conclusions and recommendations set forth herein is applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA and/or Plains.

7.0 DISTRIBUTION

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Copy Number: _____

Tables

Table 1

CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS PIPELINE, L.P.
6 INCH CENTRAL BATTERY IDLE LINE
LEA COUNTY, NEW MEXICO

All concentrations are in mg/kg

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				8015M		
		BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	GRO C ₆ C ₁₂	DRO >C ₁₂ -C ₃₅	TOTAL C ₆ -C ₃₅
Stockpile Sample 1	07/30/03	N/A	N/A	N/A	N/A	2,820	2,590	5,410
Stockpile Sample 2	08/01/03	N/A	N/A	N/A	N/A	2,000	6,590	8,590
W. Side Wall	07/31/03	<0.025	<0.025	<0.025	0.041	<10.0	<10.0	<10.0
E. Side Wall	07/31/03	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
N. Side Wall	07/31/03	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
S. Side Wall	07/31/03	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
Bottom Hole	07/31/03	4.68	8.16	7.39	27.3	5,230	15,500	20,730
MW - 1 35'	08/26/03	<0.025	<0.025	<0.025	0.064	190	2,580	2,770
MW - 1 45'	08/26/03	<0.025	0.032	0.026	0.154	<10.0	<10.0	<10.0
MW - 2 35'	08/26/03	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
MW - 2 50'	08/26/03	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
MW - 3 35'	08/27/03	<0.025	<0.025	0.077	0.345	219	1,850	2,069
MW - 3 45'	08/27/03	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0

Note: N/A denotes sample not analyzed for listed constituent.

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS PIPELINE, L.P.
6" CENTRAL BATTERY IDLE LINE
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE
MW - 1	09/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/25/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 2	09/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/25/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 3	09/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/25/04	<0.001	<0.001	<0.001	<0.002	<0.001

Table 3

CONCENTRATIONS OF METALS IN GROUNDWATER

PLAINS PIPELINE, L.P.
6 INCH CENTRAL BATTERY IDLE LINE
LEA COUNTY, NM

All water concentrations are reported in mg/L
EPA SW846-6010B, 7470

SAMPLE LOCATION	SAMPLE DATE	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Tin	Vanadium	Zinc	Boron	Strontium
MW - 1	09/12/03	24.1	<0.01	2.04	<0.002	<0.002	190	0.0252	0.0117	0.0201	16.2	0.0155	43.3	1.06	<0.0002	<0.005	0.0251	8.26	<0.01	<0.002	159	<0.02	0.0682	0.0337	0.324	2.28
MW - 2	09/12/03	30	<0.01	0.598	<0.002	<0.002	177	0.0217	<0.01	0.0115	14.8	0.011	36.8	0.741	<0.0002	<0.005	0.0197	6.28	<0.01	<0.002	144	<0.02	0.0575	0.0314	0.394	2.81
MW - 3	09/12/03	18.8	<0.01	0.937	<0.002	<0.002	159	0.0236	<0.01	0.0155	11.9	<0.01	37.4	0.472	<0.0002	0.0051	0.019	6.48	<0.01	<0.002	167	<0.02	0.0531	0.0315	0.334	2.27
WQCC Standard		5.0	0.1	1.0	-	0.01	-	0.05	0.05	1.0	0.01	0.05	-	0.2	0.002	0.2	0.2	-	0.05	0.05	-	-	-	10	0.75	-

Note: - denotes no WQCC standard available.

TABLE 4

CONCENTRATIONS OF SEMI-VOLATILES IN GROUNDWATER

PLAINS PIPELINE, L.P.
6" CENTRAL BATTERY IDLE LINE
LEA COUNTY, NEW MEXICO

All water concentrations are reported in µg/L

EPA SW846-8270C, 3510

SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[e]pyrene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
MW - 1	09/12/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.139	0.295	<0.05
MW - 2	09/12/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW - 3	09/12/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
WQCC Standard		-	-	-	-	0.0007	-	-	-	-	-	-	-	-	0.03	-	-

Note: - denotes no WQCC standard available.

TABLE 5

CONCENTRATIONS OF ANIONS/CATIONS IN GROUNDWATER

PLAINS PIPELINE, L.P.
6" CENTRAL BATTERY IDLE LINE
LEA COUNTY, NEW MEXICO

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW375.4, 325.3, 310, 160.1				
		Sulfate	Chloride	Carbonate	Bicarbonate	TDS
MW - 1	09/12/03	126	361	<10	490	1160
MW - 2	09/12/03	137	358	<10	460	1080
MW - 3	09/12/03	85.2	340	<10	420	1050
WQCC Standard		600	250	-	-	1000

Note: - denotes no WQCC standard available.

TABLE 6

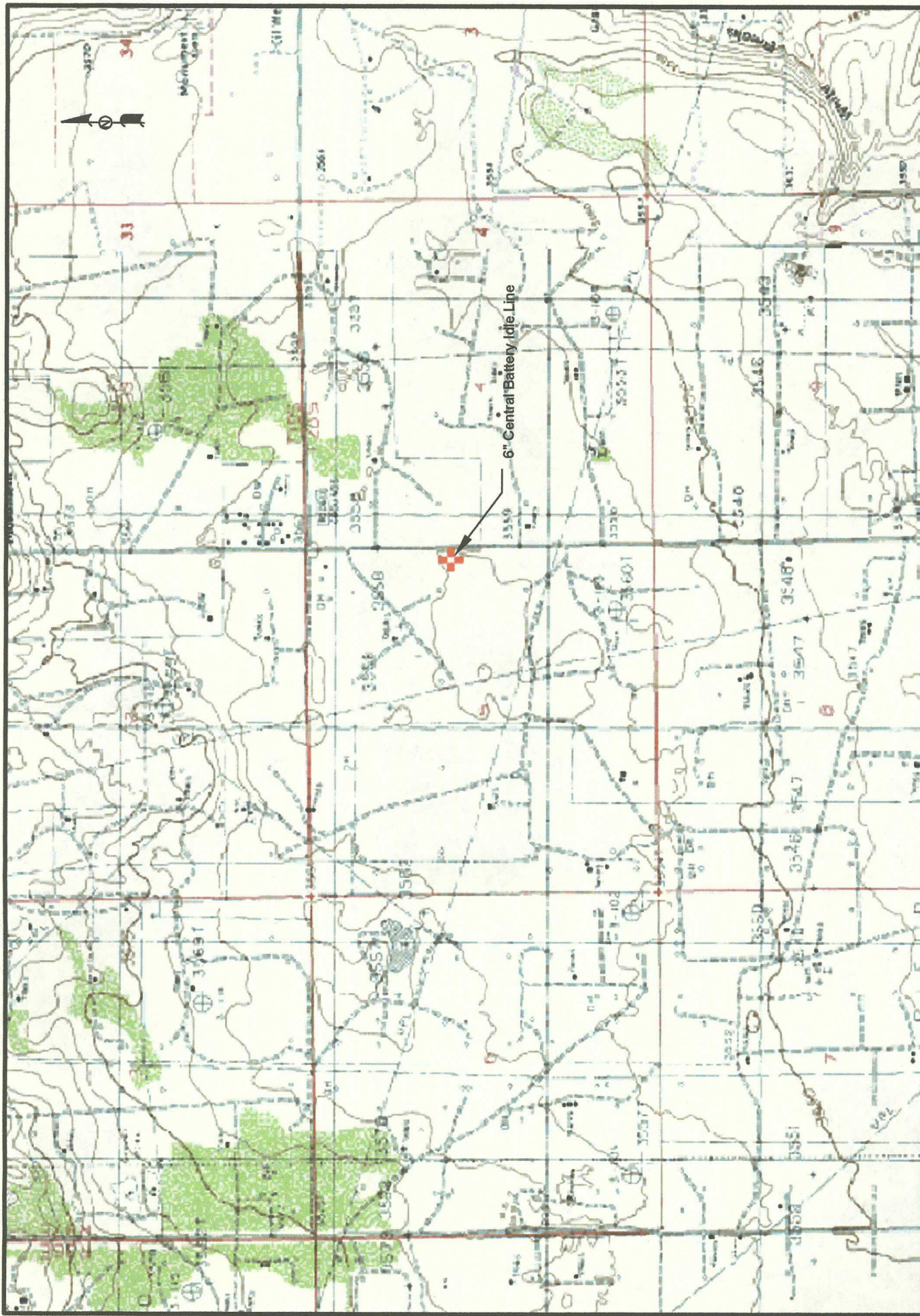
GROUNDWATER ELEVATION DATA

PLAINS PIPELINE, L.P.
6" CENTRAL BATTERY IDLE LINE
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	08/29/03	3,563.51	39.02	39.02	Sheen	3,524.49
	09/12/03	3,563.51	-	39.05	0.00	3,524.46
	10/16/03	3,563.51	-	39.45	0.00	3,524.06
	10/21/03	3,563.51	39.46	39.46	Sheen	3,524.05
	12/04/03	3,563.51	39.18	39.19	0.01	3,524.33
	12/31/03	3,563.51	39.14	39.14	Sheen	3,524.37
	01/27/04	3,563.51	39.40	39.40	0.00	3,524.11
	02/19/04	3,563.51	39.39	39.39	0.00	3,524.12
	02/25/04	3,563.51	-	39.09	0.00	3,524.42
	04/09/04	3,563.51	-	39.56	0.00	3,523.95
	05/17/04	3,563.51	-	38.10	0.00	3,525.41
MW - 2	08/29/03	3,563.40	-	39.28	0.00	3,524.12
	09/12/03	3,563.40	-	39.32	0.00	3,524.08
	10/16/03	3,563.40	-	39.74	0.00	3,523.66
	12/04/03	3,563.40	-	39.46	0.00	3,523.94
	02/25/04	3,563.40	-	39.45	0.00	3,523.95
	05/17/04	3,563.40	-	36.51	0.00	3,526.89
MW - 3	08/29/03	3,562.13	-	37.34	0.00	3,524.79
	09/12/03	3,562.13	-	39.38	0.00	3,522.75
	10/16/03	3,562.13	-	37.82	0.00	3,524.31
	12/04/03	3,562.13	-	37.52	0.00	3,524.61
	02/25/04	3,562.13	-	37.41	0.00	3,524.72
	05/17/04	3,562.13	-	38.89	0.00	3,523.24

Elevations based on the North American Vertical Datum of 1929.

Figures



SE 1/4, NE 1/4, Sec. 5, T20S, R27E

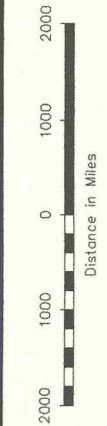


Figure 1
Site Location Map
Plains Pipeline L.P.
6-inch Central Battery Idle Line
Lea County, NM

NOVA Safety and Environmental



Scale: 1" = 200'	Prep By: CS	Checked By: CR
March 9, 2004		
Lat. N32° 36' 13.17" Long. W105° 15' 56.29"		



Highway 8

Telephone Wire

MW-3

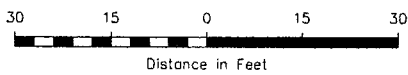
MW-2

Link Pipeline

Buried Link Pipeline

Unimproved Road

MW-1



32° 36' 13.17"
103° 15' 55.29"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

- ETGi Monitor Well
- Excavated Area

----- Pipeline

Figure 2
Site Map

Plains Pipeline, L.P.
6" Central Battery Idle Line
Lea Co., New Mexico

NOVA Safety and Environmental

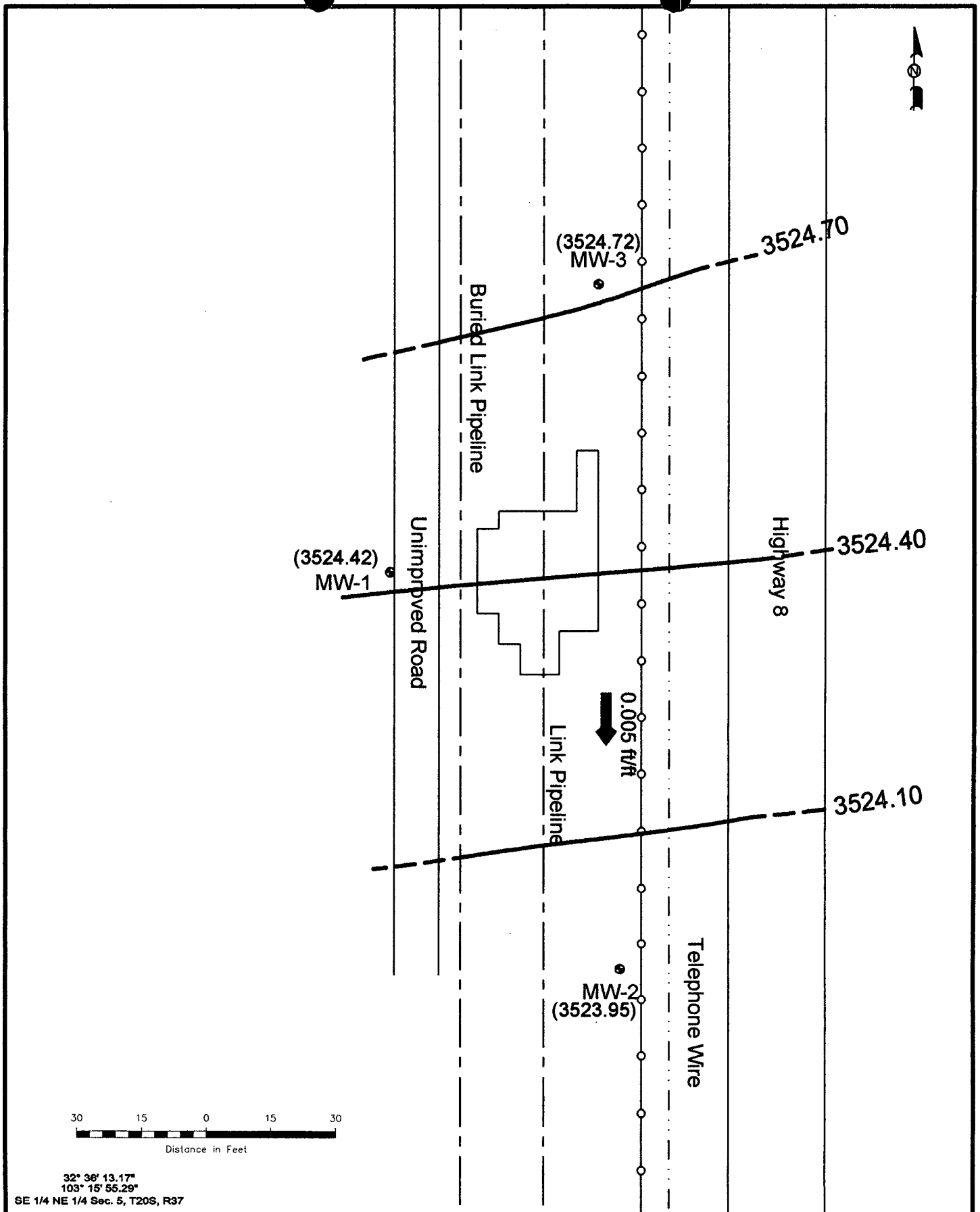


Scale: 1" = 30'

Prep By: CS

Checked By: CR

March 17, 2004



LEGEND:

- ETGI Monitor Well
- (3524.33) Ground water Elevation (Inferred)
- 0.004 ft/ft Groundwater Gradient Direction and magnitude
- Excavated Area

----- Pipeline

Figure 3
Inferred Groundwater
Gradient Map (2/25/04)
Plains Pipeline, L.P.
6th Central Battery Idle Line
Lea Co., New Mexico

NOVA Safety and Environmental

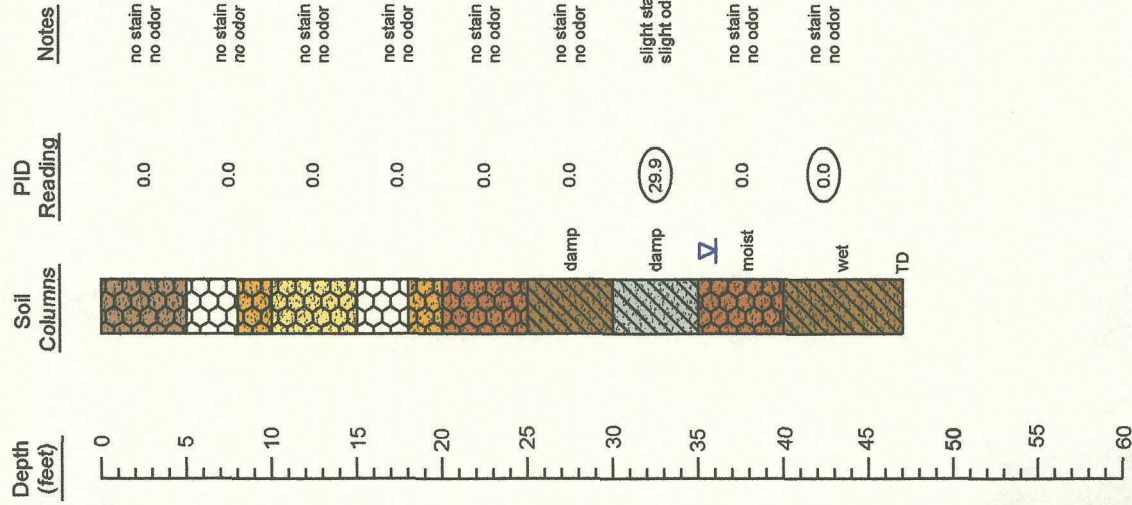


Scale: 1" = 30'	Prep By: CS	Checked By: CR
April 27, 2004		

Appendices

Appendix A
Soil Boring Logs

Monitor Well MW-1



Monitor Well Details	
Date Drilled	08-26-03
Thickness of Bentonite Seal	8 ft
Length of PVC Well Screen	15 ft
Depth of PVC Well	47 ft
Depth of Exploratory Well	47 ft
Depth to Groundwater	36 ft

Legend

- Sand - (SP) - Brown-tan, very fine grained, well sorted, imbedded with caliche nodules
- Caliche layer
- Sand - (SP) - Tan, very fine grained, well sorted, imbedded with caliche nodules
- Sand - (SP) - Tan, very fine grained, well sorted, imbedded with Caliche nodules
- Sand - (SP) - Brown, very fine grained, well sorted, imbedded with Caliche nodules
- Sand - (SP) - Gray, very fine grained, well sorted, imbedded with quartz
- Sand - (SP) - Dark brown, very fine grained, well sorted, imbedded with gravel

Indicates samples selected for laboratory analysis.

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Indicates the PSH level measured on date.

Indicates the Groundwater level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

ND Indicates the constituent was not detected

Legend

- The Monitor well was installed on the date indicated using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.010 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Monitor Well Details

Monitor Well - 1

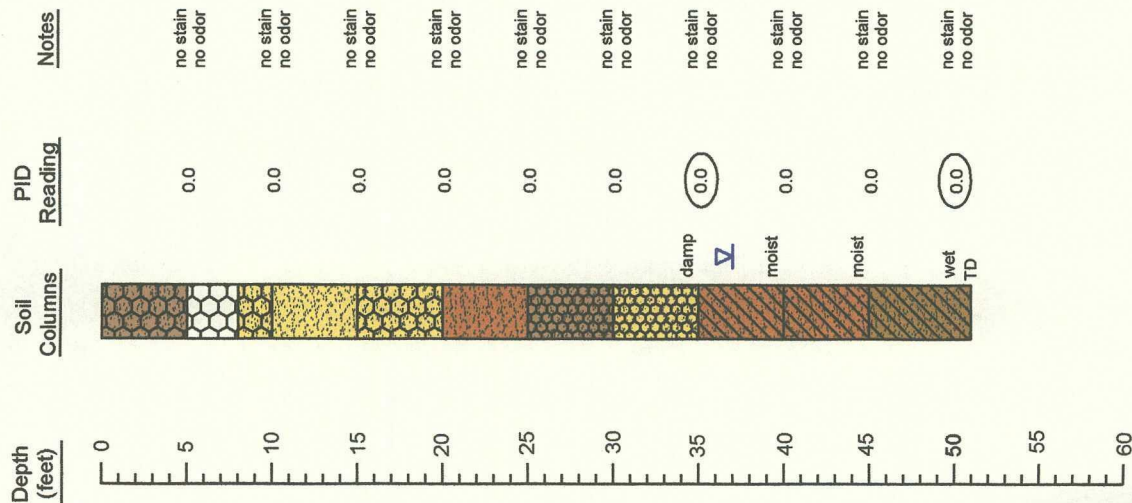
NOVA Safety and Environmental



Plains Pipeline, L.P. 6" Central Battery Idle Line Lea County, NM

Scale: NTS
Prep By: CS
Checked By: CR
October 13, 2003

Monitor Well MW-2



Legend

- Sand - (SP) - Brown-tan, very fine grained, well sorted, imbedded with caliche nodules
- Caliche layer
- Sand - (SP) - Tan, very fine grained, well sorted, imbedded with Caliche nodules
- Sand - (SP) - Tan, very fine grained, well sorted
- Sand - (SC) - Brown, very fine grained, well sorted
- Sand - (SC) - Brown-tan, very fine grained, well sorted, imbedded with caliche nodules
- Sand - (SC) - Tan, very fine grained, well sorted, imbedded with caliche nodules
- Sand - (SP) - Brown, very fine grained, well sorted, imbedded with gravel
- Sand - (SP) - Dark brown, very fine grained, well sorted, imbedded with gravel

- Indicates the PSH level measured on date.
- Indicates the Groundwater level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.
- ND Indicates the consultant was not detected

Legend

- The Monitor well was installed on the date indicated using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.010 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Monitor Well Details

Monitor Well - 2

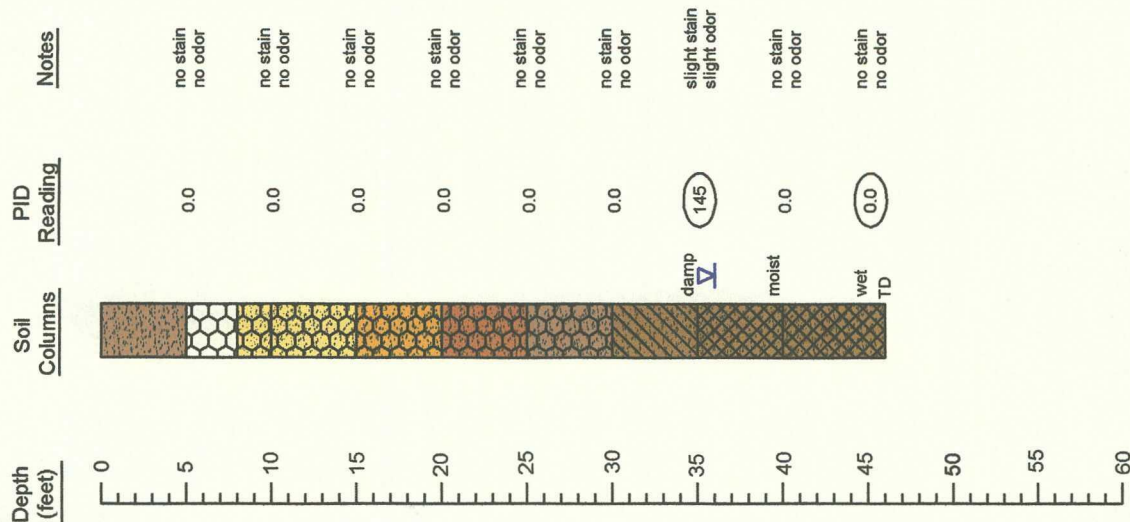
NOVA Safety and Environmental



Plains Pipeline, L.P. 6" Central Battery Idle Line Lea County, NM

Scale: NTS
Prep By: CS
Checked By: CR
October 13, 2003

Monitor Well MW-3



Legend

- Sand - (SP) - Brown-tan, very fine grained, well sorted
- Caliche layer
- Sand - (SP) - Tan, very fine grained, well sorted, imbedded with Caliche nodules
- Sand - (SP) - Tan-brown, very fine grained, well sorted, imbedded with caliche nodules
- Sand - (SP) - Brown, very fine grained, well sorted, imbedded with caliche nodules
- Sand - (SC) - Brown-tan, very fine grained, well sorted, imbedded with caliche nodules
- Sand - (SP) - Dark brown, very fine grained, well sorted, imbedded with quartz
- Sand - (SP) - Dark brown, very fine grained, well sorted, imbedded with gravel

- Indicates the PSH level measured on date.
- Indicates the Groundwater level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.
- ND Indicates the consultant was not detected

Legend

- The Monitor well was installed on the date indicated using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.010 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Monitor Well Details

Monitor Well - 3

Plains Pipeline, L.P. 6" Central Battery Idle Line Lea County, NM



NOVA Safety and Environmental

Scale: NTS
Prep By: CS
Checked By: CR
October 13, 2003



Appendix B

Laboratory Reports

FILE

ANALYTICAL REPORT

Prepared for:

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Project: 6" Central Batt. Idle

PO#:

Order#: G0307115

Report Date: 08/01/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307115
Project: EO2107
Project Name: 6" Central Batt. Idle
Location: Lea County, N.M.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0307115-01	Stockpile Sample 1	SOIL	7/30/03 15:00	7/30/03 18:31	4 oz glass	ice
<u>Lab Testing:</u>		Rejected: No	Temp: 12.0 C			
8015M						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307115
Project: EO2107
Project Name: 6" Central Batt. Idle
Location: Lea County, N.M.

Lab ID: 0307115-01
Sample ID: Stockpile Sample 1

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		7/31/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	2,820	10.0
DRO, >C12-C35	2,590	10.0
TOTAL, C6-C35	5,410	10.0

Surrogates	% Recovered	QC Limits (%)
1-Chlorooctane	142%	70 : 130
1-Chlorooctadecane	130%	70 : 130

Approved: *Sara Molina* 08-01-03
 Raland K. Tuttle, Lab Director, QA Officer d Date
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT****8015M**

Order#: G0307115

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006393-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006393-03		952	890	93.5%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006393-04		952	876	92.9%	1.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006393-05		1000	1113	111.3%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307115**Project:** 6" Central Batt. Idle

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
Stockpile Sample 1	0307115-01	SOIL	07/30/2003	07/30/2003

Surrogate recoveries on the 8015M TPH are outside control limits due to matrix interference.
(G0307115-01)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Deanne McMursey
Environmental Lab of Texas I, Ltd.

Date: 08-01-03

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

Project Manager: Carmelle Reynolds

Company Name: ETL

Company Address: 4540 E. 11th Street

City/State/Zip: Odessa, NM 88440

Telephone No: (915) 397-4884

Sample Signature: [Signature]

Fax No: (915) 397-4761

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Cuc # 013

Project Name: 6" Central Ball Hole

Project #: 802101

Project Loc: Lea County, NM

PO #: _____

FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative						Matrix				Analyze For												
				HCl	HNO ₃	H ₂ SO ₄	Other: Specify	Water	Sludge	Soil	Other: Specify	TOC	TOH	As	Bi	Co	Cr	Cu	Fe	Mn	Ni	Pb	Se	Sr	Te	Zn
030715	2003	7:30 PM	1																							
LAB # (lab use only)	01																									

Special Instructions:				Received by:				Date				Time			
Requisitioned by: <u>[Signature]</u> Requisitioned by: <u>[Signature]</u>				Received by: <u>[Signature]</u>				7-30-03				15:45			
				Received by: <u>[Signature]</u>				7-30-03				18:31			

Sample Contaminants:
Temperature: 12.0°C

Laboratory Comments:

ANALYTICAL REPORT

Prepared for:

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Project: 6" Central Battery Idle Line

PO#:

Order#: G0307135

Report Date: 08/04/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS**SAMPLE WORK LIST**

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307135
Project: EO 2107
Project Name: 6" Central Battery Idle Line
Location: Monument

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0307135-01	StockPile	SOIL	8/1/03 11:48	8/1/03 16:49	4 oz glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: 6.0 C			
8015M						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307135
Project: EO 2107
Project Name: 6" Central Battery Idle Line
Location: Monument

Lab ID: 0307135-01
Sample ID: StockPile

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		8/1/03	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	2,000	50.0
DRO, >C12-C35	6,590	50.0
TOTAL, C6-C35	8,590	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	27%	70	130
1-Chlorooctadecane	22%	70	130

Approval:

Raland K. Tuttle
Raland K. Tuttle, Lab Director, QA Officer
Coley D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Diezguibe, Lab Tech.
Sara Molina, Lab Tech.

Date

8-04-03

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT****8015M**

Order#: G0307135

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006401-02			<10		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006401-03		952	1171	123.0%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006401-04		952	1186	124.6%	1.3%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006401-05		1000	1003	100.3%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307135**Project:** 6" Central Battery Idle Line

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
StockPile	0307135-01	SOIL	08/01/2003	08/01/2003

Surrogate recoveries on the 8015M TPH are outside of control limits due to dilution (G0307135-01).

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Roland K. Jurek
Environmental Lab of Texas I, Ltd.

Date:

8-04-03

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Camille Reynolds

Company Name: Environmental Technology Group Inc.

Company Address: 2540 W. Marland

City/State/Zip: Hobbs N.M. 88240

Telephone No: (505) 397-4882

Fax No: (505) 397-4701

Sampler Signature: [Signature]

Project Name: 6" Central Battery Idle Line

Project #: EO 2107

Project Loc: Manumont

PO #:

FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative						Matrix				Analyze For:					
				Ice	LiNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Sediment	Soil	Other (Specify)	As	Cd	Cu	Pb	Hg
030713	7-31-03	14:28	1	X															
West Side wall	7-31-03	13:45	1	X															
East Side wall	7-31-03	14:35	1	X															
North Side wall	7-31-03	14:39	1	X															
South Side wall	7-31-03	14:32	1	X															
Bottom Hole	8-1-03	11:48	1	X															
Stock Pile																			

Special Instructions:

Relinquished by:

Relinquished by:

Received by:

Received by:

Date

Date

Time

Time

Sample Containers Initials:

Temperature Upon Receipt: 6.0°C

Laboratory Comments:

Rush status only on stock pile sample. Thanks

ANALYTICAL REPORT

Prepared for:

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Project: 6" Central Battery Idle Line

PO#:

Order#: G0307136

Report Date: 08/04/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307136
Project: EO 2107
Project Name: 6" Central Battery Idle Line
Location: Monument

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0307136-01	West Side Wall	SOIL	7/31/03 14:28	8/1/03 16:49	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 6.0 C		
0307136-02	East Side Wall	SOIL	7/31/03 13:45	8/1/03 16:49	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 6.0 C		
0307136-03	North Side Wall	SOIL	7/31/03 14:35	8/1/03 16:49	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 6.0 C		
0307136-04	South Side Wall	SOIL	7/31/03 14:39	8/1/03 16:49	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 6.0 C		
0307136-05	Bottom Hole	SOIL	7/31/03 14:32	8/1/03 16:49	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 6.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307136
Project: EO 2107
Project Name: 6" Central Battery Idle Line
Location: Monument

Lab ID: 0307136-01
Sample ID: West Side Wall

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		8/1/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	112%	70	130
1-Chlorooctadecane	98%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006402-02		8/2/03 22:27	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.041	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	80%	80	120
Bromofluorobenzene	83%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 5

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307136
Project: EO 2107
Project Name: 6" Central Battery Idle Line
Location: Monument

Lab ID: 0307136-02
Sample ID: East Side Wall

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		8/1/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	107%	70	130
1-Chlorooctadecane	94%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006402-02		8/2/03 22:49	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	80%	80	120
Bromofluorobenzene	82%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 5

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307136
Project: EO 2107
Project Name: 6" Central Battery Idle Line
Location: Monument

Lab ID: 0307136-03
Sample ID: North Side Wall

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		8/1/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRG, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	110%	70	130
1-Chlorooctadecane	95%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0006402-02		8/2/03 23:12	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	81%	80	120
Bromofluorobenzene	85%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307136
Project: EO 2107
Project Name: 6" Central Battery Idle Line
Location: Monument

Lab ID: 0307136-04
Sample ID: South Side Wall

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		8/1/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	105%	70	130
1-Chlorooctadecane	92%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006402-02		8/4/03 11:25	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	83%	80	120
Bromofluorobenzene	88%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 4 of 5

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307136
Project: EO 2107
Project Name: 6" Central Battery Idle Line
Location: Monument

Lab ID: 0307136-05
Sample ID: Bottom Hole

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		8/1/03	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	5,230	50.0
DRO, >C12-C35	15,500	50.0
TOTAL, C6-C35	20,730	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	19%	70	130
1-Chlorooctadecane	22%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006402-02		8/2/03 23:56	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	4.68	0.200
Toluene	8.16	0.200
Ethylbenzene	7.39	0.200
p/m-Xylene	22.3	0.200
o-Xylene	4.97	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	368%	80	120
Bromofluorobenzene	108%	80	120

Approval: *Celestine Keene* 08/04/03
 Raland K. Tullie, Lab Director, QA Officer
 Celestine D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 5 of 5

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT****8015M**

Order#: G0307136

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006401-02			<10		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006401-03		952	1171	123.6%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006401-04		952	1186	124.6%	1.3%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006401-05		1000	1003	100.3%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0307136

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0006402-02			<0.025		
Toluene-mg/kg		0006402-02			<0.025		
Ethylbenzene-mg/kg		0006402-02			<0.025		
p/m-Xylene-mg/kg		0006402-02			<0.025		
o-Xylene-mg/kg		0006402-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307124-02	0	0.1	0.084	84.%	
Toluene-mg/kg		0307124-02	0	0.1	0.084	84.%	
Ethylbenzene-mg/kg		0307124-02	0	0.1	0.086	86.%	
p/m-Xylene-mg/kg		0307124-02	0	0.2	0.174	87.%	
o-Xylene-mg/kg		0307124-02	0	0.1	0.087	87.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307124-02	0	0.1	0.089	89.%	5.8%
Toluene-mg/kg		0307124-02	0	0.1	0.089	89.%	5.8%
Ethylbenzene-mg/kg		0307124-02	0	0.1	0.090	90.%	4.5%
p/m-Xylene-mg/kg		0307124-02	0	0.2	0.201	100.5%	14.4%
o-Xylene-mg/kg		0307124-02	0	0.1	0.100	100.%	13.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0006402-05		0.1	0.091	91.%	
Toluene-mg/kg		0006402-05		0.1	0.091	91.%	
Ethylbenzene-mg/kg		0006402-05		0.1	0.092	92.%	
p/m-Xylene-mg/kg		0006402-05		0.2	0.186	93.%	
o-Xylene-mg/kg		0006402-05		0.1	0.090	90.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307136**Project:** 6" Central Battery Idle Line

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

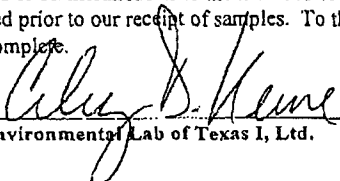
SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
West Side Wall	0307136-01	SOIL	07/31/2003	08/01/2003
East Side Wall	0307136-02	SOIL	07/31/2003	08/01/2003
North Side Wall	0307136-03	SOIL	07/31/2003	08/01/2003
South Side Wall	0307136-04	SOIL	07/31/2003	08/01/2003
Bottom Hole	0307136-05	SOIL	07/31/2003	08/01/2003

Surrogate recoveries on the 8015M TPH are outside of control limits due to dilution (G0307136-05).

Surrogate recoveries on the 8021B BTEX are outside control limits due to matrix interference.
(0307136-05)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:


Environmental Lab of Texas I, Ltd.

Date:

08/04/03

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUESTS: I

Project Name: 6" Central Battery Idle Line

Project #: 20 2107

Project Loc: Madagascar

பகுதி

Fax No: (805) 397-4701

Sampler Signature: 

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative	Matrix	Analyze for
030713E	-01 West Side wall	7-31-03	14:28	1	Ice		
	-02 East Side wall	7-31-03	13:45	1	Ice	Soil	
	-03 North Side wall	7-31-03	14:35	1	Ice	Sediment	
	-04 South Side wall	7-31-03	14:39	1	Ice	Water	
	-05 Bottom Hole	7-31-03	14:32	1	Ice	Other (Specify)	
	Stack Pile	8-1-03	11:48	1	Ice		

Special Instructions:

[illegible]

U.S. District Court

Received by:

Received by ELO

Calc	Time
------	------

Date	8/1/03	Time	13:22
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[illegible]

Pile Sample. Thanks

21/2/11

Flanne Memory

8-1-3

8-1-3 16591

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2107

FILE

ANALYTICAL REPORT

Prepared for:

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Project: 6" Central Batt. Line Idle

PO#:

Order#: G0307346

Report Date: 09/04/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307346
Project: EO2107
Project Name: 6" Central Batt. Line Idle
Location: Lea County, N.M.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0307346-01	MW-1 35'	SOIL	8/26/03 10:00	8/29/03 9:10	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0307346-02	MW-1 45'	SOIL	8/26/03 10:40	8/29/03 9:10	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0307346-03	MW-2 35'	SOIL	8/26/03 14:40	8/29/03 9:10	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0307346-04	MW-2 50'	SOIL	8/26/03 15:45	8/29/03 9:10	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0307346-05	MW-3 35'	SOIL	8/27/03 9:55	8/29/03 9:10	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0307346-06	MW-3 45'	SOIL	8/27/03 10:39	8/29/03 9:10	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307346
Project: EO2107
Project Name: 6" Central Batt. Line Idle
Location: Lea County, N.M.

Lab ID: 0307346-01

Sample ID: MW-1 35'

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		8/29/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	190	10.0
DRO, >C12-C35	2,580	10.0
TOTAL, C6-C35	2,770	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	118%	70	130
1-Chlorooctadecane	130%	70	130

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0006666-02		8/29/03	1	25	JMM	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.064	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	98%	80	120
Bromofluorobenzene	89%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 6

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307346
Project: EO2107
Project Name: 6" Central Burt. Line Idle
Location: Lea County, N.M.

Lab ID: 0307346-02

Sample ID: MW-1 45'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		8/29/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	111%	70	130
1-Chlorooctadecane	129%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0006666-02		8/29/03	1	25	JMM	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	0.032	0.025
Ethylbenzene	0.026	0.025
p/m-Xylene	0.154	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	99%	80	120
Bromofluorobenzene	101%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 6

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Mariand
Hobbs, NM 88240

Order#: G0307346
Project: EO2107
Project Name: 6" Central Batt. Line Idlle
Location: Lea County, N.M.

Lab ID: 0307346-03
Sample ID: MW-2 35'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		8/29/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	107%	70	130
1-Chlorooctadecane	129%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006666-02		8/29/03	1	25	JMM	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	98%	80	120
Bromofluorobenzene	97%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 3 of 6

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307346
Project: EO2107
Project Name: 6" Central Batt. Line Idle
Location: Lea County, N.M.

Lab ID: 0307346-04
Sample ID: MW-2 50'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		8/29/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	107%	70	130
1-Chlorooctadecane	128%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006666-02		8/29/03	1	25	JMM	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	95%	80	120
Bromofluorobenzene	94%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 4 of 6

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307346
Project: EO2107
Project Name: 6" Central Batt. Line Idle
Location: Lea County, N.M.

Lab ID: 0307346-05
Sample ID: MW-3 35'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		8/29/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	219	10.0
DRO, >C12-C35	1,850	10.0
TOTAL, C6-C35	2,069	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	112%	70	130
1-Chlorooctadecane	129%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0006666-02		8/29/03	1	25	JMM	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	0.077	0.025
p/m-Xylene	0.236	0.025
o-Xylene	0.109	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	93%	80	120
Bromofluorobenzene	103%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 5 of 6

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307346
Project: EO2107
Project Name: 6" Central Batt. Line Idle
Location: Lea County, N.M.

Lab ID: 0307346-06

Sample ID: MW-3 45'

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		8/29/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

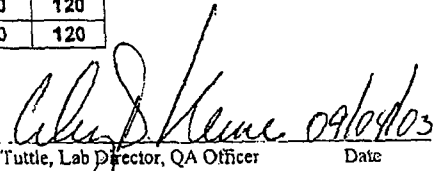
Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	109%	70	130
1-Chlorooctadecane	123%	70	130

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0006666-02		8/29/03	1	25	JMM	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	96%	80	120
Bromofluorobenzene	96%	80	120

Approval:  09/04/03
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0307346

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006694-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006694-03		952	834	87.6%	
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0307346-04	0	952	1072	112.6%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0307346-04	0	952	1063	111.7%	0.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006694-05		1000	1039	103.9%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0307346

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0006666-02			<0.025		
Toluene-mg/kg		0006666-02			<0.025		
Ethylbenzene-mg/kg		0006666-02			<0.025		
p/m-Xylene-mg/kg		0006666-02			<0.025		
o-Xylene-mg/kg		0006666-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307340-03	0	0.1	0.085	85.0%	
Toluene-mg/kg		0307340-03	0	0.1	0.086	86.0%	
Ethylbenzene-mg/kg		0307340-03	0	0.1	0.087	87.0%	
p/m-Xylene-mg/kg		0307340-03	0	0.2	0.174	87.0%	
o-Xylene-mg/kg		0307340-03	0	0.1	0.082	82.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307340-03	0	0.1	0.094	94.0%	10.1%
Toluene-mg/kg		0307340-03	0	0.1	0.093	93.0%	7.8%
Ethylbenzene-mg/kg		0307340-03	0	0.1	0.095	95.0%	8.8%
p/m-Xylene-mg/kg		0307340-03	0	0.2	0.190	95.0%	8.8%
o-Xylene-mg/kg		0307340-03	0	0.1	0.091	91.0%	10.4%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0006666-05		0.1	0.090	90.0%	
Toluene-mg/kg		0006666-05		0.1	0.090	90.0%	
Ethylbenzene-mg/kg		0006666-05		0.1	0.089	89.0%	
p/m-Xylene-mg/kg		0006666-05		0.2	0.180	90.0%	
o-Xylene-mg/kg		0006666-05		0.1	0.086	86.0%	

FILE

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

ANALYSIS

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs

NM 88240

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

Report#/Lab ID#: 147258 Report Date: 10/03/03

Project ID: EO 2107 6" Idle Line

Sample Name: MW-1

Sample Matrix: water

Date Received: 09/15/2003 Time: 08:00

Date Sampled: 09/12/2003 Time: 14:00

QUALITY ASSURANCE DATA¹

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	09/16/03	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	09/19/03	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	09/18/03	3015	---	---	---	---	---
Metals Dig.-HNO ₃ *filtered	---	---	---	---	09/16/03	3005a	---	---	---	---	---
Total dissolved solids	1160	mg/L	1	<1	09/17/03	160.1	---	1.28	-NA-	-NA-	-NA-
Aluminum/ICP	24.1	mg/L	0.2	<0.2	09/22/03	6010 & 200.7	---	8.54	93.64	96.74	83.52
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	0.27	101	99.48	88.24
Barium/ICP	2.04	mg/L	0.05	<0.05	09/23/03	6010 & 200.7	---	0.1	95.62	95.8	86.24
Beryllium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	J	2.45	96.48	96.1	83.84
Boron/ICP	0.324	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.81	104.72	99.42	81.18
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	---	2.66	99.99	98.4	86.56
Calcium/ICP*filtered	190	mg/L	10	<10	09/22/03	6010 & 200.7	---	2.46	97.53	98.08	118.96
Chromium/ICP	0.0252	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.07	93.85	98.64	102.14
Cobalt/ICP	0.0117	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	1.24	93.38	98.72	83.23
Copper/ICP	0.0201	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.7	99.99	98.72	85.41
Iron/ICP	16.2	mg/L	0.2	<0.2	09/23/03	6010 & 200.7	---	2.63	97.1	98.77	92.56
Lead/ICP	0.0155	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	2.39	92.29	99.78	85.07
Magnesium/ICP*filtered	43.3	mg/L	5	<5	09/22/03	6010 & 200.7	---	0.67	98.27	98.28	123.83
Manganese/ICP	1.06	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	1.68	94.39	99.04	85.25
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	09/19/03	245.2&7470	---	3.77	104	105	105
Molybdenum/ICP	<0.005	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	J	0.22	96.98	98.4	86.46

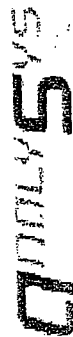
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Easter

Richard Easter

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 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) 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 PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.



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Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 FAX: 505 397-4701

Report# / Lab ID#: 147259 Report Date: 10/03/03
Project ID: EO 2107 6" Idle Line
Sample Name: MW-2
Sample Matrix: water
Date Received: 09/15/2003 Time: 08:00
Date Sampled: 09/12/2003 Time: 14:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	09/16/03	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	09/19/03	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	09/18/03	3015	---	---	---	---	---
Metals Dig.-HNO ₃ *filtered	---	---	---	---	09/16/03	3005a	---	---	---	---	---
Total dissolved solids	1080	mg/L	1	<1	09/17/03	160.1	---	1.28	-NA-	-NA-	-NA-
Aluminum/ICP	30	mg/L	0.2	<0.2	09/22/03	6010 & 200.7	---	8.54	93.64	96.74	83.52
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	0.27	101	99.48	88.24
Barium/ICP	0.598	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.1	95.62	95.8	86.24
Beryllium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	J	2.45	96.48	96.1	83.84
Boron/ICP	0.394	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.81	104.72	99.42	81.18
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	---	2.66	99.99	98.4	86.56
Calcium/ICP*filtered	177	mg/L	10	<10	09/22/03	6010 & 200.7	---	2.46	97.53	98.08	118.96
Chromium/ICP	0.0217	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.07	93.85	98.64	102.14
Cobalt/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	1.24	93.38	98.72	83.23
Copper/ICP	0.0115	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.7	99.99	98.72	85.41
Iron/ICP	14.8	mg/L	0.2	<0.2	09/23/03	6010 & 200.7	---	2.63	97.1	98.77	92.56
Lead/ICP	0.011	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	2.39	92.29	99.78	85.07
Magnesium/ICP*filtered	36.8	mg/L	5	<5	09/22/03	6010 & 200.7	---	0.67	98.27	98.28	123.83
Manganese/ICP	0.741	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	1.68	94.39	99.04	85.25
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	09/19/03	245.2&7470	---	3.77	104	105	105
Molybdenum/ICP	<0.005	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	J	0.22	96.98	98.4	86.46

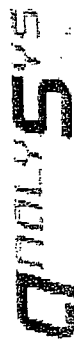
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Easter

Richard Easter

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: Robert Eidson

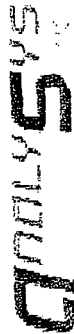
Project ID: EO 2107 6" Idle Line
Sample Name: MW-2

Report#/Lab ID#: 147259
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	0.0197	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.53	96.98	99.8	88.1
Potassium/AA*filtered	6.28	mg/L	0.25	<0.25	09/19/03	258.1 & 7610	---	5.52	100.31	94.73	101.07
Selenium/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	0.47	98.87	98.9	86.7
Silver/GFAA	<0.002	mg/L	0.002	<0.002	09/22/03	272.2 & 7761	---	2.02	92.66	92.5	104
Sodium/ICP*filtered	144	mg/L	40	<40	09/22/03	6010 & 200.7	---	2.12	99.48	96.5	87.4
Strontium/ICP	2.81	mg/L	0.04	<0.04	09/22/03	6010 & 200.7	---	0.76	98.34	96.95	87.04
Tin/ICP	<0.02	mg/L	0.02	<0.02	09/22/03	6010 & 200.7	---	1.31	95.86	98.43	85.36
Vanadium/ICP	0.0575	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	1.89	91.1	97.98	89.5
Zinc/ICP	0.0314	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	2.39	99.79	99.56	89.82
Alkalinity, bicarbonate	460	mg/L	10	<10	09/16/03	SM2320	---	0.41	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	09/16/03	SM2320	---	0.41	-NA-	-NA-	-NA-
Chloride	358	mg/L	5	<5	09/24/03	325.2 & 9251	---	0.91	96.25	98.28	95.61
Sulfate	137	mg/L	5	<5	10/02/03	375.4 & 9038	---	0.3	115.34	101.37	104.34
Extractable organics-PAH	---	---	---	---	09/24/03	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	09/18/03	8260b-(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/18/03	8260b	---	7.8	93.9	94.6	88.1
Ethylbenzene	<1	µg/L	1	<1	09/18/03	8260b	---	2.8	99.7	97.1	97
m,p-Xylenes	<1	µg/L	1	<1	09/18/03	8260b	---	1.2	98.6	98.2	96.6
o-Xylene	<1	µg/L	1	<1	09/18/03	8260b	---	2.4	103.9	102.9	100.7
Toluene	<1	µg/L	1	<1	09/18/03	8260b	---	8.1	105.7	105.3	102.5
Acenaphthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	3.6	36.6	99.8	61.5
Acenaphthylene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	2.6	40.5	108.1	63.6
Anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	9.7	34.2	96.9	59.8
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	6.3	37.5	94.2	80.2
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	8	30.8	102.8	44.5
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	5.8	28.3	111.2	49.1
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	7.2	79.3	84	92.3
Benzo[k]fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	8.7	36.2	106.6	49.5
Chrysene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	1.5	40.3	94.8	48.3
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	2	103.7	90.4	103.9
Fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	21.3	41.5	114.2	73.2
Fluorene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	14.2	24.8	110.5	59.9



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Report#/Lab ID#: 147259
Sample Matrix: water

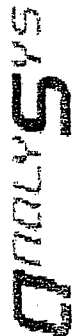
Project ID: EO 2107 6" Idle Line
Sample Name: MW-2

Client: Environmental Tech Group
Attn: Robert Eidson

QUALITY ASSURANCE DATA¹

REPORT OF ANALYSIS-cont.

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	09/24/03	8270c	---	3.5	99.6	98.9	104.2
Naphthalene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	J	6.9	30.6	89.6	55.7
Phenanthrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	16.9	31.9	85.9	58.4
Pyrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	11.3	41	98.6	107.7



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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: EO 2107 6" Idle Line
Sample Name: MW-2

Report#/Lab ID#: 147259
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	88	80-120	---
Toluene-d8	8260b	89.4	88-110	---
2-Fluorobiphenyl	8270c	61.4	43-116	---
Nitrobenzene-d5	8270c	58.4	35-114	---
Terphenyl-d14	8270c	46.3	33-141	---

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

Exceptions Report:

Report #/Lab ID#: 147259 Matrix: water

Client: Environmental Tech Group

Project ID: EO 2107 6" Idle Line

Sample Name: MW-2

Attn: Robert Eidson

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.
Beryllium/ICP	J	See J-flag discussion above.
Cobalt/ICP	J	See J-flag discussion above.
Molybdenum/ICP	J	See J-flag discussion above.
Selenium/ICP	J	See J-flag discussion above.
Naphthalene	J	See J-flag discussion above.

Notes:



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Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 147260 Report Date: 10/03/03

Project ID: EO 2107 6" Idle Line

Sample Name: MW-3

Sample Matrix: water

Date Received: 09/15/2003 Time: 08:00

Date Sampled: 09/12/2003 Time: 15:00

QUALITY ASSURANCE DATA¹

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	09/16/03	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	09/19/03	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	09/19/03	3015	---	---	---	---	---
Metals Dig.-HNO ₃ *filtered	---	---	---	---	09/16/03	3005a	---	---	---	---	---
Total dissolved solids	1050	mg/L	1	<1	09/17/03	160.1	---	1.28	-NA-	-NA-	-NA-
Aluminum/ICP	18.8	mg/L	0.2	<0.2	09/22/03	6010 & 200.7	---	8.54	93.64	96.74	83.52
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	0.27	101	99.48	88.24
Barium/ICP	0.937	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.1	95.62	95.8	86.24
Beryllium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	J	2.45	96.48	96.1	83.84
Boron/ICP	0.334	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.81	104.72	99.42	81.18
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	---	2.66	99.99	98.4	86.56
Calcium/ICP*filtered	159	mg/L	10	<10	09/22/03	6010 & 200.7	---	2.46	97.53	98.08	118.96
Chromium/ICP	0.0236	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.07	93.85	98.64	102.14
Cobalt/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	1.24	93.38	98.72	83.23
Copper/ICP	0.0155	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.7	99.99	98.72	85.41
Iron/ICP	11.9	mg/L	0.2	<0.2	09/23/03	6010 & 200.7	---	2.63	97.1	98.77	92.56
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	2.39	92.29	99.78	85.07
Magnesium/ICP*filtered	37.4	mg/L	5	<5	09/22/03	6010 & 200.7	---	0.67	98.27	98.28	123.83
Manganese/ICP	0.472	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	1.68	94.39	99.04	85.25
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	09/19/03	245.2&7470	---	3.77	104	105	105
Molybdenum/ICP	0.0051	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.22	96.98	98.4	86.46

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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Respectfully Submitted,

Richard Easter

Richard Easter

Client: Environmental Tech Group Attn: Robert Eidson	Project ID: EO 2107 6" Idle Line Sample Name: MW-3	Report#/Lab ID#: 147260 Sample Matrix: water
---	---	---

QUALITY ASSURANCE DATA 1										
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	LCS ⁴
Nickel/ICP	0.019	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.53	96.98	88.1
Potassium/AA *filtered	6.48	mg/L	0.25	<0.25	09/19/03	258.1 & 7610	---	5.52	100.31	101.07
Selenium/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.47	98.87	86.7
Silver/GFAA	<0.002	mg/L	0.002	<0.002	09/22/03	272.2 & 7761	---	2.02	92.66	104
Sodium/ICP *filtered	167	mg/L	40	<40	09/22/03	6010 & 200.7	---	2.12	99.48	87.4
Strontium/ICP	2.27	mg/L	0.04	<0.04	09/22/03	6010 & 200.7	---	0.76	98.34	87.04
Tin/ICP	<0.02	mg/L	0.02	<0.02	09/22/03	6010 & 200.7	---	1.31	95.86	85.36
Vanadium/ICP	0.0531	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	1.89	91.1	89.5
Zinc/ICP	0.0315	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	2.39	99.79	89.82
Alkalinity, bicarbonate	420	mg/L	10	<10	09/16/03	SM2320	---	0.41	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	09/16/03	SM2320	---	0.41	-NA-	-NA-
Chloride	340	mg/L	5	<5	09/24/03	375.2 & 9251	---	0.91	96.25	95.61
Sulfate	85.2	mg/L	2	<2	10/02/03	375.4 & 9038	---	0.3	115.34	104.34
Extractable organics-PAH	---	---	---	---	09/24/03	8270c	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	09/18/03	8260b(5030/5035)	---	---	---	---
Benzene	<1	µg/L	1	<1	09/18/03	8260b	---	7.8	93.9	88.1
Ethylbenzene	<1	µg/L	1	<1	09/18/03	8260b	---	2.8	99.7	97
m,p-Xylenes	<1	µg/L	1	<1	09/18/03	8260b	---	1.2	98.6	96.6
o-Xylene	<1	µg/L	1	<1	09/18/03	8260b	---	2.4	103.9	100.7
Toluene	<1	µg/L	1	<1	09/18/03	8260b	---	8.1	105.7	102.5
Acenaphthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	3.6	36.6	61.5
Acenaphthylene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	2.6	40.5	63.6
Anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	9.7	34.2	59.8
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	6.3	37.5	80.2
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	8	30.8	44.5
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	5.8	28.3	49.1
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	7.2	79.3	92.3
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	8.7	36.2	49.5
Chrysene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	1.5	40.3	48.3
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	2	103.7	103.9
Fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	21.3	41.5	73.2
Fluorene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	14.2	24.8	59.9



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(512) 385-5886 • FAX (512) 385-7411

Report#/Lab ID#: 147260
Sample Matrix: water

Project ID: EO 2107 6" Idle Line
Sample Name: MW-3

Client: Environmental Tech Group
Attn: Robert Eidson

QUALITY ASSURANCE DATA¹

REPORT OF ANALYSIS-cont.

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	09/24/03	8270c	---	3.5	99.6	98.9	104.2
Naphthalene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	J	6.9	30.6	89.6	55.7
Phenanthrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	16.9	31.9	85.9	58.4
Pyrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	11.3	41	98.6	107.7



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Client: Environmental Tech Group Attn: Robert Eidson	Project ID: EO 2107 6" Idle Line Sample Name: MW-3	Report#/Lab ID#: 147260 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4 Toluene-d8	8260b	91.1	80-120	---
	8260b	90	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	69.4	43-116	---
	8270c	64.7	35-114	---
	8270c	55.6	33-141	---

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

Exceptions Report:

Report #/Lab ID#: 147260 Matrix: water	Attn: Robert Eidson
Client: Environmental Tech Group	
Project ID: EO 2107 6" Idle Line	
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.
Beryllium/ICP	J	See J-flag discussion above.
Cobalt/ICP	J	See J-flag discussion above.
Lead/ICP	J	See J-flag discussion above.
Naphthalene	J	See J-flag discussion above.

Notes:

WWW.ANALYSYSINC.COM

Bill to (if different):

Company Name Self

Address

City State Zip

ATTN:

Phone

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: 1021076 "Idle line" Sampler: Justin Frick

[illegible]

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 lists (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 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
John Doe	ETG	9-12-03		William Thompson	ASI	9/15/03

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 150571 Report Date: 12/22/03
Project ID: EO2107 6" Central Battery Idleline
Sample Name: MW-1
Sample Matrix: water
Date Received: 12/09/2003 Time: 15:00
Date Sampled: 12/04/2003 Time: 09:00

REPORT OF ANALYSIS

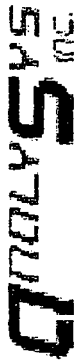
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	9.8	79	95.2	107.1
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	5.5	105.3	106	113.8
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	5	99.6	101.1	106.3
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	15	102.9	115	120.8
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	7.7	101.8	101.1	109.5

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Respectfully Submitted,

Richard Elton

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Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: EO2107 6" Central Battery Idleline
Sample Name: MW-1

Report#/Lab ID#: 150571
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	101	88-110	---

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 150572 Report Date: 12/22/03
Project ID: EO2107 6" Central Battery Idleline
Sample Name: MW-2
Sample Matrix: water
Date Received: 12/09/2003 Time: 15:00
Date Sampled: 12/04/2003 Time: 09:30

REPORT OF ANALYSIS

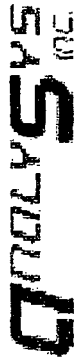
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	9.8	79	95.2	107.1
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	5.5	105.3	106	113.8
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	5	99.6	101.1	106.3
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	15	102.9	115	120.8
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	7.7	101.8	101.1	109.5

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Client: Environmental Tech Group
Attn: Camille Reynolds

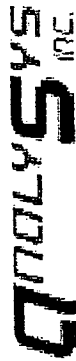
Project ID: EO2107 6" Central Battery Ideline
Sample Name: MW-2

Report#/Lab ID#: 150572
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	90.8	80-120	---
Toluene-d8	8260b	105	88-110	---

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 150573 Report Date: 12/22/03
Project ID: EO2107 6" Central Battery Idleline
Sample Name: MW-3
Sample Matrix: water
Date Received: 12/09/2003 Time: 15:00
Date Sampled: 12/04/2003 Time: 10:00

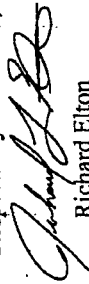
REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	9.8	79	95.2	107.1
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	5.5	105.3	106	113.8
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	5	99.6	101.1	106.3
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	15	102.9	115	120.8
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	7.7	101.8	101.1	109.5

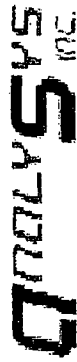
QUALITY ASSURANCE DATA¹

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Respectfully Submitted,


Richard Elton

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Client: Environmental Tech Group	Project ID: EO2107 6" Central Battery Ideline	Report#/Lab ID#: 150573
Attn: Camille Reynolds	Sample Name: MW-3	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	95.2	80-120	---
Toluene-d8	8260b	108	88-110	---

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

Send Reports To:

Bill To (if different):

Company Name Environmental Technology Group Inc.
Address 2540 W. Norland
City Holbrook State N.M. Zip 88240
ATTN: Carroll Reynolds
Phone (505) 397-4882 Fax (505) 397-4701

Company Name Link Energy
Address _____
City _____ State _____ Zip _____
ATTN: _____
Phone _____ Fax _____

Project Name/PO#: 503107 6" Central Sampler

Best by Effective
Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of-Custody under "special instructions".

[illegible]

Special Instructions (such as special QC requirements, lists, methods, etc...)

Temperature
upon receipt
(Consistent with
NEI AC spec.
5.11) ($\geq 0.6^{\circ}\text{C}$)

its

20

(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 in ASI's normal reporting limits (MPL/PLQL). 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 PSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Received By

Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
<i>[Signature]</i>	ETOT	12-4-03		Melanie Jumping	ASI	12/9/03	15:00

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

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 153313 **Report Date:** 03/03/04
Project ID: LI-2107 6" Central Batt Idle Line
Sample Name: MW-1
Sample Matrix: water
Date Received: 02/27/2004 **Time:** 08:00
Date Sampled: 02/25/2004 **Time:** 15:00

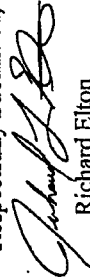
REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		03/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	03/02/04	8260b	---	0.6	101.4	96.2	97
Ethylbenzene	<1	µg/L	1	<1	03/02/04	8260b	---	2.8	117.7	115.6	112.4
m,p-Xylenes	<2	µg/L	2	<2	03/02/04	8260b	---	2.6	114.2	110.9	109.4
o-Xylene	<1	µg/L	1	<1	03/02/04	8260b	---	2.1	123.5	111.1	119.8
Toluene	<1	µg/L	1	<1	03/02/04	8260b	---	1.7	107.4	102.6	104.7

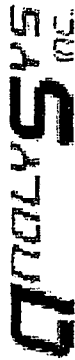
QUALITY ASSURANCE DATA¹

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,


Richard Elton

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.



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: Camille Reynolds

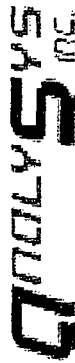
Project ID: LI-2107 6" Central Batt Idle Line
Sample Name: MW-1

Report#/Lab ID#: 153313
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	74-124	---
Toluene-d8	8260b	110	89-115	---

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: Camille Reynolds

Address: 2540 W. Marland

Hobbs

NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 153314 **Report Date:** 03/03/04

Project ID: LI-2107 6" Central Batt Idle Line

Sample Name: MW-2

Sample Matrix: water

Date Received: 02/27/2004 **Time:** 08:00

Date Sampled: 02/25/2004 **Time:** 15:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		03/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	03/02/04	8260b	---	2.9	94.7	94.5	100.4
Ethylbenzene	<1	µg/L	1	<1	03/02/04	8260b	---	5.3	111.3	117.5	115.7
m,p-Xylenes	<2	µg/L	2	<2	03/02/04	8260b	---	6.7	110.2	114.6	113.3
o-Xylene	<1	µg/L	1	<1	03/02/04	8260b	---	4	107.6	113.4	122.4
Toluene	<1	µg/L	1	<1	03/02/04	8260b	---	1.3	100.7	100.4	100.9

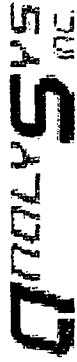
QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Elton

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: LI-2107 6" Central Batt Idle Line
Sample Name: MW-2

Report#/Lab ID#: 153314
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	96.2	74-124	---
Toluene-d8	8260b	112	89-115	---

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: Camille Reynolds

Address: 2540 W. Marland

Hobbs

NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 153315 Report Date: 03/03/04

Project ID: LI-2107 6" Central Batt Idle Line

Sample Name: MW-3

Sample Matrix: water

Date Received: 02/27/2004 Time: 08:00

Date Sampled: 02/25/2004 Time: 16:00

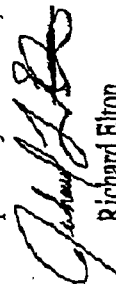
REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		03/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	03/02/04	8260b	---	0.6	101.4	96.2	97
Ethylbenzene	<1	µg/L	1	<1	03/02/04	8260b	---	2.8	117.7	115.6	112.4
m,p-Xylenes	<2	µg/L	2	<2	03/02/04	8260b	---	2.6	114.2	110.9	109.4
o-Xylene	<1	µg/L	1	<1	03/02/04	8260b	---	2.1	123.5	111.1	119.8
Toluene	<1	µg/L	1	<1	03/02/04	8260b	---	1.7	107.4	102.6	104.7

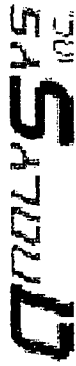
QUALITY ASSURANCE DATA¹

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Respectfully Submitted,


Richard Elton

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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: Camille Reynolds

Project ID: LJ-2107 6" Central Batt Idle Line
Sample Name: MW-3

Report#/Lab ID#: 153315
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	96.6	74-124	---
Toluene-d8	8260b	106	89-115	---

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

CHAIN-CUSTODY

www.analysysinc.com

ANALYSYS INC.

Send Reports To:

Company Name Environmental Technology Group Inc.
 Address 2540 W. Norland
 City Hobbs State N.M. Zip 88240
 ATTN: Camille Reynolds
 Phone (505) 397-4882 Fax (505) 397-4701

Bill To (if different): Link

Company Name
 Address
 City State Zip
 ATTN:
 Phone Fax

3512 S. Montebello Drive, Austin, TX
 78741 Ph: (512) 385-5896 Fax: (512) 385-5111

2209 E. Polaris Island Dr. Ste E, Coppell
 Texas, TX 75019 Ph: (940) 290-6871
 Fax: (940) 290-0875

Project Name/ID: LT 2107 Sampler Cody Fisher
6" Center (1307) 1/11/12
 Samples/Projects intended for GC/MS completion require special handling. QC requirements and pricing. To be successfully completed such projects should be identified and discussed prior to receipt and MUST BE IDENTIFIED on this Chain-of-Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Composite	Lab ID # (Lab Only)	No. of Containers	Ice	No. of Containers and Preservative (TRRP-13 Mandatory)	Matrix	Analyze For
m w -1	2-25-04 3:00	2			153313		X	HNO3 HCL ZnAc/NaOH H2SO4 Glass None Other (Specify)	Water Waste Soil Other (Specify)	
m w -2	2-25-04 3:30	2			153314		X			
m w -3	2-25-04 4:00	2			153315		X			

Analyze For

XXXX BTEx 8021B

ROSH TAT Pre-scheduled
 Standard TAT

Special Instructions (such as special QC requirements, lists, methods, etc...)

When 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, normal reporting limits (ARL) (Y or N). 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 HSE list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt of sample at our facility
 51.0 (6.0°C)
 T: 25.0

Sample Relinquished By

Sample Received By

Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Cody Fisher	ETGI	2-25-04		AS/	AS/	2/25/04	0800

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

Appendix C
Water Well Survey

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 20S Range: 37E Sections: 4,5,6,7,8,9

NAD27 X: Y: Zone: Search Radius:

County: LE Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

Well / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form WATERS Menu Help

AVERAGE DEPTH OF WATER REPORT 10/15/2003

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
A	20S	37E	08				1	38	38	38
L	20S	37E	04				1	22	22	22
L	20S	37E	05				7	32	46	38
L	20S	37E	06				7	35	40	37
L	20S	37E	07				4	34	38	36
L	20S	37E	08				9	30	38	34

Record Count: 29

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 20S Range: 37E Sections: 4,5,6,7,8,9

NAD27 X: Y: Zone: Search Radius:

County: LE Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

Well / Surface Data Report Avg Depth to Water Report Water Column Report

Clear Form WATERS Menu Help

WELL / SURFACE DATA REPORT 10/15/2003

DB File Nbr	Use	Diversion	Owner	(acre ft per annum)	Well Number	Source	Twg	Rng	Sec	q	q
L 01145	PRO	3	GULF OIL CORPORATION		L 01145	Shallow	20S	37E	06	4	1
L 01253	PRO	3	GULF OIL CORPORATION		L 01253		20S	37E	08	2	3
L 01450	PRO	3	OHIO OIL CO.		L 01450		20S	37E	05	1	3
L 01450 (1)	PRO	0	THE OHIO OIL COMPANY		L 01450 (1)		20S	37E	05	1	3
L 01450 (10)	PRO	0	MARATHON OIL COMPANY		L 01450 (10)		20S	37E	05	1	3
L 01450 (11)	PRO	0	MARATHON OIL COMPANY		L 01450 (11)		20S	37E	05	1	3
L 01450 (12)	PRO	0	MARATHON OIL COMPANY		L 01450 (12)		20S	37E	05	1	3
L 01450 (13)	PRO	0	MARATHON OIL COMPANY		L 01450 (13)		20S	37E	05	1	3
L 01450 (14)	PRO	0	MARATHON OIL COMPANY		L 01450 (14)		20S	37E	05	1	3
L 01450 (2)	PRO	0	MARATHON OIL COMPANY		L 01450 (2)		20S	37E	05	1	3
L 01450 (3)	PRO	0	THE MARATHON OIL COMPANY		L 01450 (3)		20S	37E	05	1	3
L 01450 (4)	PRO	0	MARATHON OIL COMPANY		L 01450 (4)		20S	37E	05	1	3
L 01450 (5)	PRO	0	MARATHON OIL COMPANY		L 01450 (5)		20S	37E	05	1	3
L 01450 (6)	PRO	0	MARATHON OIL COMPANY		L 01450 (6)		20S	37E	05	1	3
L 01450 (7)	PRO	0	MARATHON OIL COMPANY		L 01450 (7)		20S	37E	05	1	3
L 01450 (8)	PRO	0	MARATHON OIL COMPANY		L 01450 (8)		20S	37E	05	1	3
L 01450 (9)	PRO	0	MARATHON OIL COMPANY		L 01450 (9)		20S	37E	05	1	3
L 01487	PRO	3	GULF OIL CORPORATION		L 01487		20S	37E	06	4	1
L 01572	PRO	3	EXPLORATION DRILLING COMPANY		L 01572 APPRO	Shallow	20S	37E	05	3	3
L 02102	PRO	3	E. F. INC. MORAN		L 02102	Shallow	20S	37E	05	3	4

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

[illegible]

Record Count: 60

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 19S Range: 37E Sections: 31,32,33

NAD27 X: Y: Zone: Search Radius:

County: LE Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

Well / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form WATERS Menu Help

AVERAGE DEPTH OF WATER REPORT 10/15/2003

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
L	19S	37E	31		2	20	27	23		
L	19S	37E	32		6	25	35	29		
L	19S	37E	33		20	13	43	32		

Record Count: 28

Township: 19S Range: 37E Sections: 31,32,33

Search Radius:

Suffix:

Domestic

Water Column Report

Help

10/15/2003

DB File Nbr	Use	(acre ft per annum)	Owner	Well Number	Source	Tws	Rng	Sec	q	q	q
L 01271	DOM	3	OSCAR E. GROVE	L 01271 EXP		19S	37E	31	2	2	4
L 01902	STK	3	CLYDE SPEARS	L 01902 RPR		19S	37E	33	3	3	3
L 01903	DOM	3	CLYDE SPEARS	L 01903		19S	37E	33	3	3	3
				L 01903 RPR		19S	37E	33	3	3	3
L 03380	DOM	3	MONUMENT METHODIST CHURCH	L 03380	Shallow	19S	37E	32	2	1	2
				L 03380 APPRO	Shallow	19S	37E	32	2	1	2
L 03738	PRO	3	MAKIN DRILLING CO.	L 03738	Shallow	19S	37E	33	4	4	4
				L 03738 APPRO	Shallow	19S	37E	33	4	4	4
L 03815	DOM	3	W.C. BYRD	L 03815	Shallow	19S	37E	31	1	1	1
L 03938	DOM	3	ROBERT L. PATE	L 03938	Shallow	19S	37E	32	4		
				L 03938 APPRO	Shallow	19S	37E	32	4		
L 03988	DOM	3	HAROLD VAN KOPCZYNSKI	L 03988	Shallow	19S	37E	33	3	3	3
				L 03988 APPRO	Shallow	19S	37E	33	3	3	3
L 03993	DOM	3	J. A. HAMMER	L 03993	Shallow	19S	37E	33	3	3	3
				L 03993 APPRO	Shallow	19S	37E	33	3	3	3
L 04153	DOM	3	A. G. WATSON	L 04153		19S	37E	32	2		
				L 04153 APPRO EXP		19S	37E	32	2		
L 04405	DOM	3	M. D. TILLEY	L 04405	Shallow	19S	37E	33	3		
				L 04405 APPRO	Shallow	19S	37E	33	3		
L 04448	DOM	3	HAROLD VAN KOPEZYNSKI	L 04448	Shallow	19S	37E	33	3	3	3

New Mexico Office of the State Engineer

L 04804	DOM	3	W.C. BYRD	L 04448 APPRO	Shallow	19S	37E 33	3 3 3
L 04806	DOM	3	JAMES COLBERT	L 04804		19S	37E 31	1 1 1
L 04809	DOM	3	VERNON A. CLARK	L 04806	Shallow	19S	37E 33	
L 04819	DOM	3	E.R. GLENN	L 04809	Shallow	19S	37E 33	3
				L 04819		19S	37E 33	3 3 1
				L 04819 EXP		19S	37E 33	3 3 1
L 04820	DOM	3	BILL A. HAMMER	L 04820		19S	37E 33	3 3 1
				L 04820 APPRO EXP		19S	37E 33	3 3 1
L 04821	DOM	3	BUDDY ADAMS	L 04821		19S	37E 33	3 3
				L 04821 APPRO EXP		19S	37E 33	3 3
L 04822	DOM	3	ED BARNES	L 04822		19S	37E 33	3 3
				L 04822 APPRO EXP		19S	37E 33	3 3
L 04823	DOM	3	JIMMIE T. COOPER	L 04823		19S	37E 32	2 2
L 04842	DOM	3	ROSCOE ROGERS	L 04842	Shallow	19S	37E 33	3 3
L 04929	DOM	3	I.A. WELCH	L 04929	Shallow	19S	37E 33	3
L 05049	STK	3	DELL J. BARBER	L 05049	Shallow	19S	37E 32	3
L 05296	DOM	0	C.R. JORDAN	L 05296 EXP		19S	37E 31	2 4
L 05579	DOM	3	C.R. JORDAN	L 05579		19S	37E 31	2 4
L 06492	DOM	3	VERNON CLARK	L 06492		19S	37E 32	1 1
L 06497	DOM	0	C. R. JORDAN	L 06497 EXP		19S	37E 31	2 4
L 06796	SAN	3	NORTHERN NATURAL GAS COMPANY	L 06796		19S	37E 33	2 1
L 08246	DOM	0	JOE R. WILLIAMS	L 08246 EXP		19S	37E 33	4
L 08501	DOM	3	EDWARD E. & CYNTHIA A. WEBB	L 08501	Shallow	19S	37E 33	4 3 4
L 08885	DOM	0	JOE R. WILLIAMS	L 08885 EXP		19S	37E 33	4 3
L 09127	DOM	3	JOE R. WILLIAMS	L 09127 EXP	Shallow	19S	37E 33	4 4 3
				L 09127 EXP		19S	37E 33	4 4 3
L 09128	DOM	3	JOE R. WILLIAMS	L 09128	Shallow	19S	37E 33	3 3 1
				L 09128 EXP		19S	37E 33	3 3 1
L 09129	DOM	3	JOE R. WILLIAMS	L 09129	Shallow	19S	37E 33	4 3
				L 09129 EXP		19S	37E 33	4 3
L 09681	STK	3	JOE R. WILLIAMS	L 09681	Shallow	19S	37E 33	4 3
L 09692	DOM	0	DAREL TAYLOR	L 09692 EXP		19S	37E 33	1
L 10031	STK	3	JIMMY B. COOPER	L 10031	Shallow	19S	37E 31	2 4
L 10397	DOM	3	MORROW ELMER	L 10397	Shallow	19S	37E 33	1 2 2

Record Count: 54

APPENDIX D

**C-141 Release Notification and
Corrective Action**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised June 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	FOOT Energy LLC	Contact	FRANK Hernandez
Address	5805 East Highway 80, Millard	Telephone No.	(505) 631-3095
Facility Name	6 inch Central Battery TX 79701	Facility Type	6 inch pipeline
Surface Owner	Jimmie Cooper	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	5	20S	37E	-	-	-	-	Lea

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	25 barrels	Volume Recovered	0 barrels
Source of Release	6 inch pipeline	Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	7-29-03 8:30 AM		
By Whom?		Date and Hour			
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Corrosion of 6 inch pipeline. Visually stained soil excavated

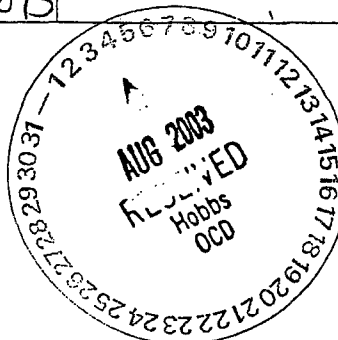
Describe Area Affected and Cleanup Action Taken.*

25'x10' visually stained soil excavated and stockpiled on-site

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCDD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCDD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCDD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>[Signature]</i>		OIL CONSERVATION DIVISION	
Printed Name: F. Hernandez		Approved by District Supervisor:	
Title: Environmental Coordinator		Approval Date:	Expiration Date:
E-mail Address:		Conditions of Approval:	
Date: 8/4/03		Attached ☐	
Phone: (505) 631-3095			

* Attach Additional Sheets If Necessary



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised June 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	EGT Energy LLC	Contact	FRANK HERNANDEZ
Address	5805 East Highway 80 Millard	Telephone No.	(505) 631-3095
Facility Name	Leach Central Battery TX 74301	Facility Type	6 inch pipeline
Surface Owner	Immie Cooper	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	5	30S	37E	-	-	-	-	Lea

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	25 barrels	Volume Recovered	0 barrels
Source of Release	Leach pipeline	Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	7-29-03 8:30 AM		
By Whom?		Date and Hour			
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					

Describe Cause of Problem and Remedial Action Taken.*

Corrosion of 6 inch pipeline. Visually stained soil excavated

Describe Area Affected and Cleanup Action Taken.*

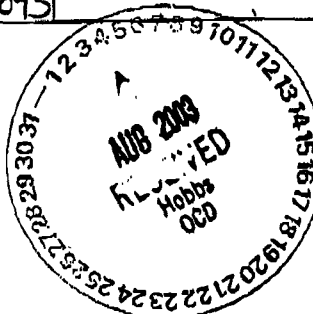
25'x10' visually stained soil excavated and stockpiled on-site

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature			
Printed Name:	F. Hernandez		
Title:	Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address:	Conditions of Approval:		Attached ☐
Date:	8/4/03	Phone:	(505) 631-3095

* Attach Additional Sheets If Necessary



ANNUAL MONITORING REPORT

IR-407

6 INCH CENTRAL BATTERY IDLE LINE

SE¼ of the NE ¼ of SECTION 5, TOWNSHIP 20 SOUTH, RANGE 37 EAST

LEA COUNTY, NEW MEXICO

LINK ENERGY LEAK NUMBER: 2003-00207

ETGI PROJECT NUMBER: LI2107

Jimmy Cooper Land

PREPARED FOR:

LINK ENERGY

5805 EAST HIGHWAY 80

MIDLAND, TEXAS 79701

PREPARED BY:

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

2540 WEST MARLAND

HOBBS, NEW MEXICO 88240

April 2004

ANNUAL MONITORING REPORT

6 INCH CENTRAL BATTERY IDLE LINE

SE ¼ of the NE ¼ of SECTION 5, TOWNSHIP 20 SOUTH, RANGE 37 EAST

LEA COUNTY, NEW MEXICO

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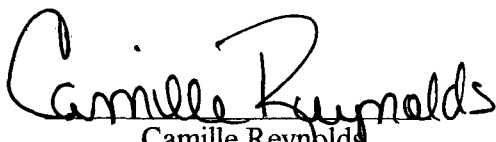
PREPARED FOR:

**LINK ENERGY
5805 EAST HIGHWAY 80
MIDLAND, TEXAS 79701**

PREPARED BY:

**ENVIRONMENTAL TECHNOLOGY GROUP, INC.
2540 WEST MARLAND
HOBBS, NEW MEXICO 88240**

April 2004


Camille Reynolds
Project Manager


Todd Choban
Regional Manager

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Appendix A – Laboratory Reports

INTRODUCTION

Environmental Technology Group, Inc. (ETGI), on behalf of Link Energy (Link), has 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 conducted in calendar year 2003 only. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during two monitoring events in calendar year 2003 to assess the levels and extent of dissolved phase and Phase Separated 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 a thickness of PSH greater than 0.01 foot were not sampled.

FIELD ACTIVITIES

The site monitor wells were installed during calendar year 2003 and sampled in accordance with NMOCD initial sampling guidelines. The site monitor wells were gauged and sampled on September 12 and December 4, 2003. During each sampling event the monitor wells 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 collected 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 Lobo Trucking of Hobbs, New Mexico utilizing a licensed disposal facility (NMOCD AO SWD-730).

GROUNDWATER GRADIENT

Locations of the monitor wells and the inferred groundwater gradient, constructed from measurements collected during quarterly sampling events are depicted on Figures 2A-2B, the Inferred Groundwater Gradient Maps. Cumulative groundwater elevation data is provided as Table 1. Groundwater elevation contours, generated from water level measurements acquired during the quarterly sampling events of 2003, indicated a general gradient of approximately 0.004 ft/ft to the south as measured between groundwater monitor wells MW-2 and MW-3. The third quarter Inferred Groundwater Gradient Map was constructed utilizing data collected on August 29, 2003 due to a misread during the September 12, 2003 gauging event. The depth to groundwater, as measured from the top of the well casing, ranged between 37.34 to 39.74 feet in the shallow alluvial aquifer.

A trace amount or 0.01 foot of PSH was detected in monitor well MW-1 during the fourth quarter 2003 monitoring event and is recorded on Table 1. However, based on the laboratory analysis which did not indicate benzene or BTEX concentrations above the laboratory detection

limits it is likely that the measured PSH thickness of 0.01 foot was due to equipment malfunction.

LABORATORY RESULTS

Groundwater samples collected during the 2003 monitoring events were delivered to AnalySys Inc., Austin, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method SW 846-8260b; Total Dissolved Solids (TDS) using EPA Method SW 846-160.1; New Mexico Water Quality Control Commission (WQCC) metals using EPA Method SW 846-6010, 200.7; Polynuclear Aromatic Hydrocarbons (PAH) using EPA Method SW 846-8270c; Chlorides using EPA Method SW 846-9253, and; Cations and Anions using EPA Methods SW 846-375.4, 325.3 and 310. A cumulative listing of BTEX constituent concentrations is summarized in Table 2. Results of WQCC metals analysis on groundwater samples obtained during the 2003 reporting period are summarized in Table 3. Results of semi-volatile constituent analysis on groundwater samples obtained during the 2003 reporting period are summarized in Table 4. Results of analysis for major anions and cations in groundwater samples obtained during the 2003 reporting period are summarized in Table 5. Copies of the laboratory reports generated during this reporting period are provided as Appendix A. The inferred extent of PSH and quarterly groundwater sample results for benzene and BTEX constituent concentrations are depicted on Figures 3A-3B, the Groundwater Concentration Maps.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2003 monitoring period indicate that benzene and BTEX constituent concentrations are below NMOCD regulatory standards for the monitor wells. However, a trace amount or sheen of PSH was detected in monitor well MW-1 during the 2003 monitoring period. Analytical results of the initial groundwater sampling event indicate constituent concentrations above NMOCD regulatory standards for aluminum, barium, iron, manganese, naphthalene, chloride and TDS as shown on Tables 3, 4 and 5.

SUMMARY

This report presents the results of groundwater monitoring activities for the annual monitoring period of calendar year 2003. A trace amount or 0.01 foot of PSH was detected in monitor well MW-1 during the fourth quarter 2003 monitoring event. However, based on the laboratory analysis which did not indicate benzene or BTEX concentrations above the laboratory detection limits it is likely that the measured PSH thickness of 0.01 foot was due to equipment malfunction. No measurable amount of PSH was recovered during the 2003 reporting period.

Groundwater elevation contours, generated from water level measurements acquired during the quarterly sampling events of 2003, indicated a general gradient of approximately 0.004 ft/ft to the south as measured between groundwater monitor wells MW-2 and MW-3.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2003 monitoring period indicate that benzene and BTEX constituent concentrations are below NMOCD regulatory standards for the monitor wells. Analytical results of the initial groundwater sampling event indicate constituent concentrations above NMOCD

regulatory standards for aluminum, barium, iron, manganese, naphthalene, chloride and TDS as shown on Tables 3, 4 and 5.

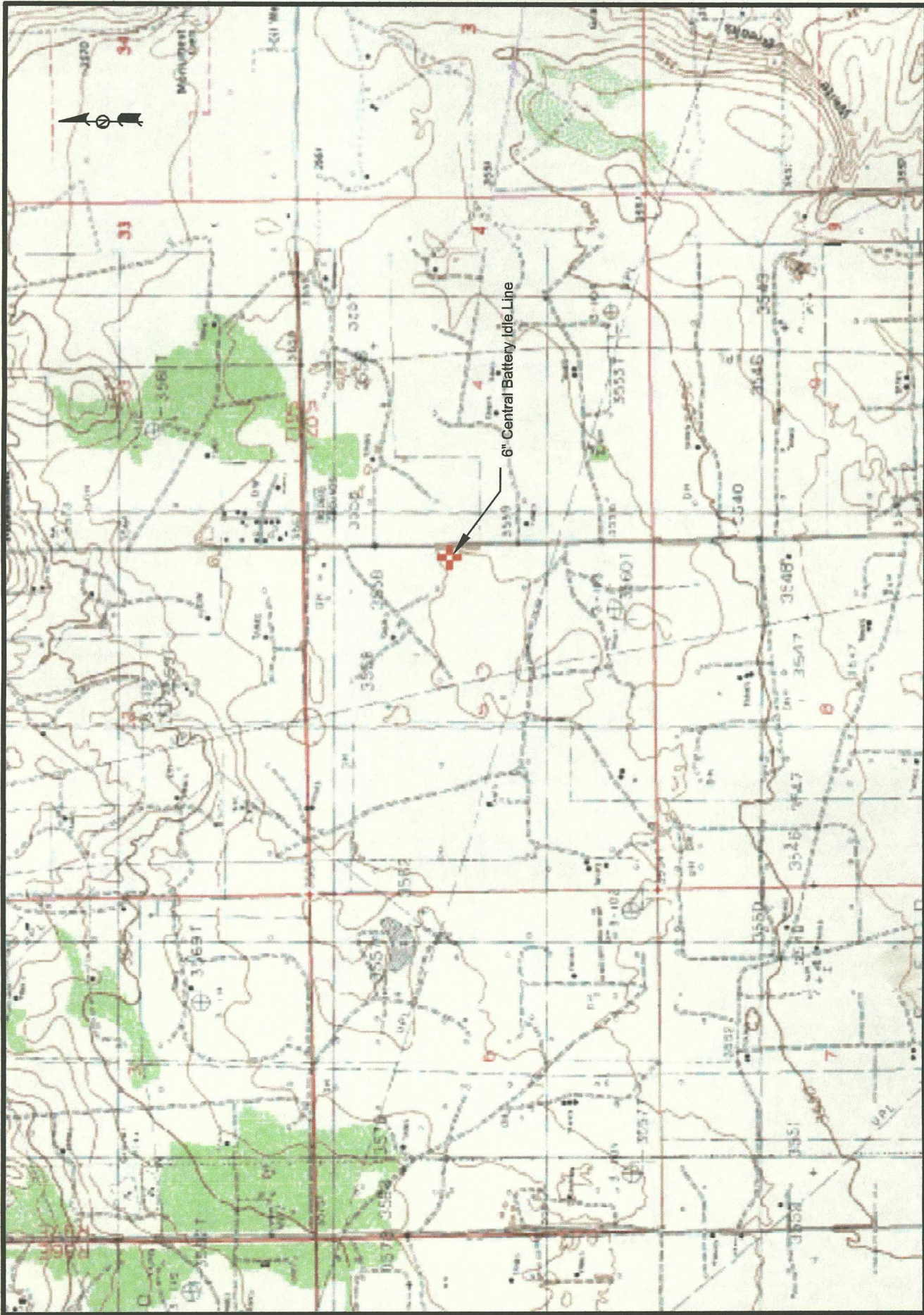
DISTRIBUTION

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New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
- Copy 3: Chris Williams
New Mexico Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240
- Copy 4: Jeff Dann
Link Energy
2000 West Sam Houston Parkway
Suite 400
Houston, Texas 77042
- Copy 5: Jimmy Bryant
Link Energy
5805 Hwy 80 East
Midland, Texas 79701
- Copy 6: Environmental Technology Group, Inc.
4600 West Wall
Midland, Texas 79703
- Copy 7: Environmental Technology Group, Inc.
2540 West Marland
Hobbs, New Mexico 88240

Copy Number: _____

Quality Control Review: _____

FIGURES



SE 1/4, NE 1/4, Sec. 5, T20S, R37E

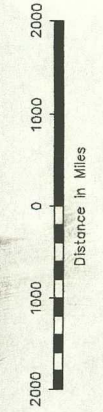
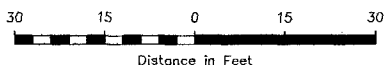
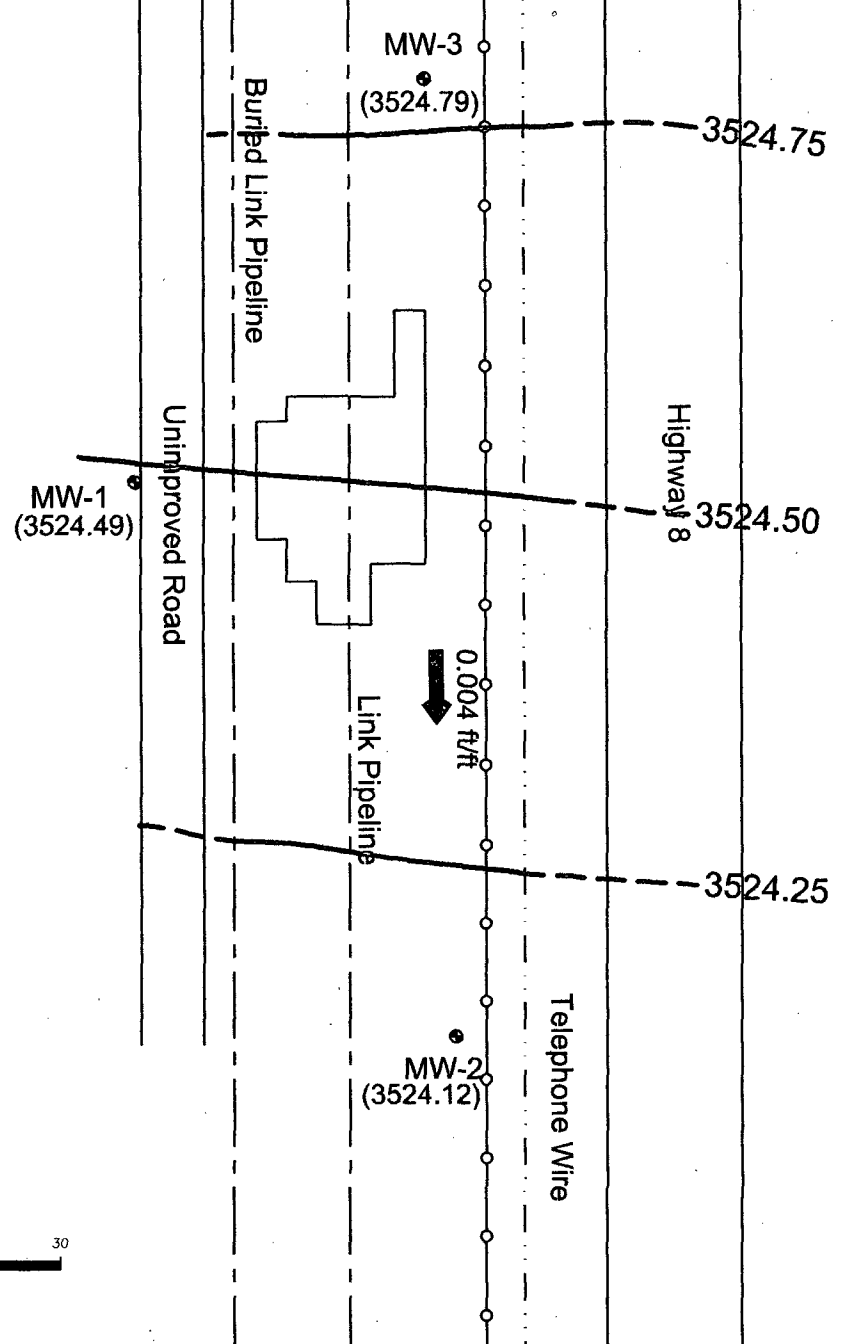


Figure 1
Site Location Map
Link Energy
6" Central Battery Idle Line
Lea County, NM



Environmental Technology Group, Inc.			
Scale: 1" = 2000'	Prep By: CS	Checked By: CR	
March 9, 2004	Link Lask #: 2003-00207		
ETGI Project #: 112107	Lat: N32° 36' 13.17"	Long: W103° 15' 55.20"	



32° 36' 13.17"
103° 15' 55.29"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

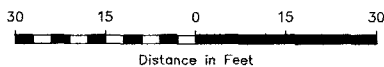
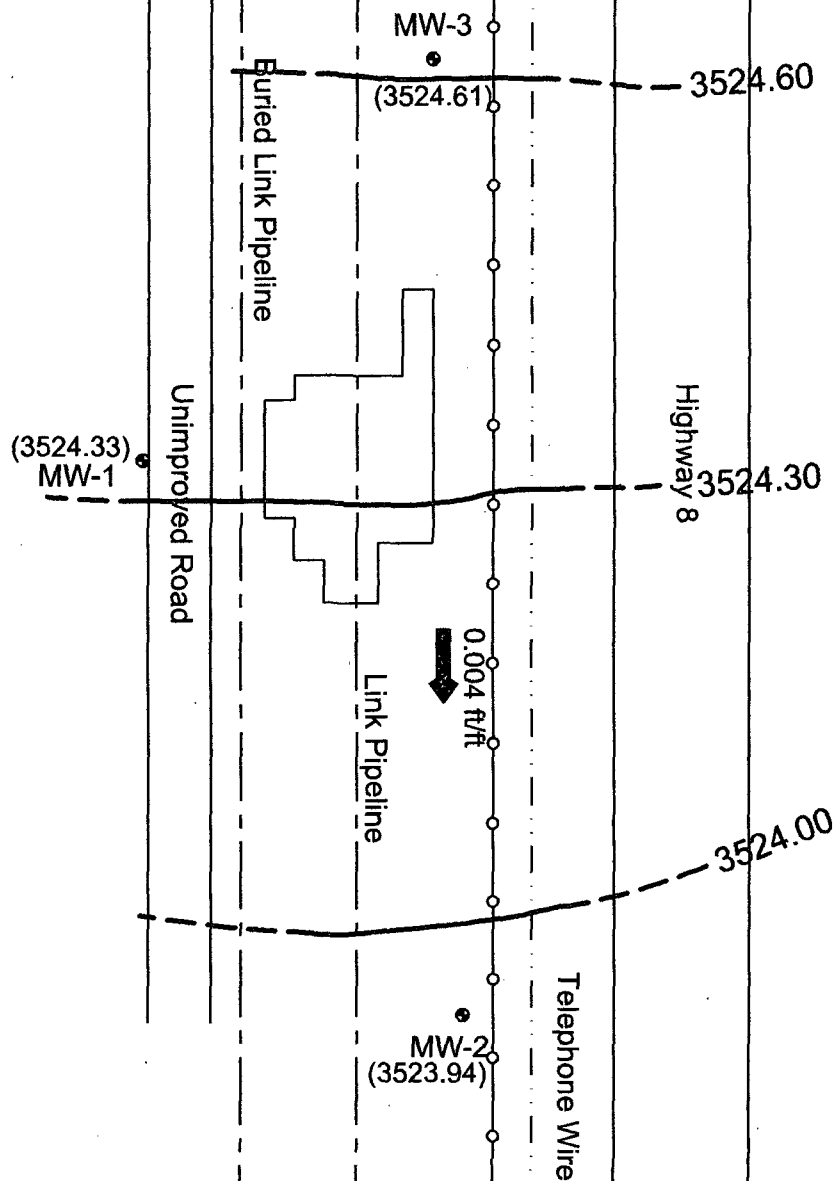
- ETGI Monitor Well
- (3524.33) Ground water Elevation (inferred)
- 0.004 ft/ft Groundwater Gradient Direction and magnitude
- Excavated Area
- Pipeline

Figure 2A
Inferred Groundwater
Gradient Map (8/29/03)
Link Energy
6" Central Battery Idle Line
Lea Co., New Mexico



**Environmental Technology
Group, Inc.**

Scale: 1" = 30'	Prep By: CS	Checked By: CR
March 17, 2004	ETGI Project #: 112107	



32° 36' 13.17"
103° 15' 55.29"
SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

- ETGI Monitor Well
- (3524.33) Ground water Elevation (Inferred)
- 0.004 ft/ft Groundwater Gradient Direction and magnitude
- Excavated Area

— Pipeline

Figure 2B
Inferred Groundwater
Gradient Map (12/4/03)
Link Energy
6" Central Battery Idle Line
Lea Co., New Mexico



**Environmental Technology
Group, Inc.**

Scale: 1" = 30'	Prep By: CS	Checked By: CR
February 8, 2004	ETGI Project #: LI 2107	



Benzene <0.001 mg/L
BTEX <0.001 mg/L

MW-3

Buried Link Pipeline

Benzene <0.001 mg/L
BTEX <0.001 mg/L

MW-1

Unimproved Road

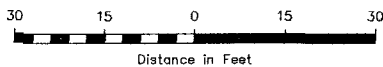
Link Pipeline

Benzene <0.001 mg/L
BTEX <0.001 mg/L

MW-2

Telephone Wire

Highway 8



Distance in Feet

32° 36' 13.17"
103° 15' 55.29"

SE 1/4 NE 1/4 Sec. 5, T20S, R37

LEGEND:

- ETGI Monitor Well
- Excavated Area

— Pipeline

Figure 3A
Groundwater Concentration
Map (9/12/03)
Link Energy
6th Central Battery Idle Line
Lea Co., New Mexico



**Environmental Technology
Group, Inc.**

Scale: 1" = 30'	Prep By: CS	Checked By: CR
March 17, 2004	ETGI Project #: LI 2107	



Benzene <0.001 mg/L
BTEX <0.002 mg/L

MW-3

Buried Link Pipeline

Benzene <0.001 mg/L
BTEX <0.002 mg/L

MW-1

Unimproved Road

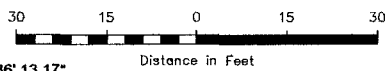
Link Pipeline

Benzene <0.001 mg/L
BTEX <0.002 mg/L

MW-2

Telephone Wire

Highway 8



32° 36' 13.17"
103° 15' 55.29"

SE 1/4 NE 1/4 Sec. 5, T20S, R37

Note: PSH Thickness in Feet

LEGEND:

- ETGI Monitor Well
- Excavated Area

Pipeline

Figure 3B
Groundwater Concentration
Map (12/4/03)
Link Energy
6" Central Battery Idle Line
Lea Co., New Mexico



Environmental Technology
Group, Inc.

Scale: 1" = 30'	Prep By: CS	Checked By: CR
March 17, 2004	ETGI Project #: LJ 2107	

TABLES

TABLE 1

GROUNDWATER ELEVATION DATA

LINK ENERGY
 6" CENTRAL BATTERY IDLE LINE
 LEA COUNTY, NEW MEXICO
 ETGI PROJECT # LI 2107

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	08/29/03	3,563.51	39.02	39.02	Sheen	3,524.49
	09/12/03	3,563.51	-	39.05	0.00	3,524.46
	10/16/03	3,563.51	-	39.45	0.00	3,524.06
	10/21/03	3,563.51	39.46	39.46	Sheen	3,524.05
	12/04/03	3,563.51	39.18	39.19	0.01	3,524.33
	12/31/03	3,563.51	39.14	39.14	Sheen	3,524.37
MW - 2	08/29/03	3,563.40	-	39.28	0.00	3,524.12
	09/12/03	3,563.40	-	39.32	0.00	3,524.08
	10/16/03	3,563.40	-	39.74	0.00	3,523.66
	12/04/03	3,563.40	-	39.46	0.00	3,523.94
MW - 3	08/29/03	3,562.13	-	37.34	0.00	3,524.79
	09/12/03	3,562.13	-	39.38	0.00	3,522.75
	10/16/03	3,562.13	-	37.82	0.00	3,524.31
	12/04/03	3,562.13	-	37.52	0.00	3,524.61

Elevations based on the North American Vertical Datum of 1929.

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

LINK ENERGY

6" CENTRAL BATTERY IDLE LINE

LEA COUNTY, NEW MEXICO

ETGI PROJECT # LI 2107

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE
MW - 1	09/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 2	09/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 3	09/12/03	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/03	<0.001	<0.001	<0.001	<0.002	<0.001

Table 3

CONCENTRATIONS OF METALS IN GROUNDWATER

LINK ENERGY

6 INCH CENTRAL BATTERY IDLE LINE

LEA COUNTY, NM

ETGI Project # LI2107

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Tin	Vanadium	Zinc	Boron	Strontium
MW - 1	09/12/03	24.1	<0.01	2.04	<0.002	<0.002	190	0.0252	0.0117	0.0201	16.2	0.0155	43.3	1.06	<0.0002	<0.005	0.0251	8.26	<0.01	<0.002	159	<0.02	0.0682	0.0337	0.324	2.28
MW - 2	09/12/03	30	<0.01	0.598	<0.002	<0.002	177	0.0217	<0.01	0.0115	14.8	0.011	36.8	0.741	<0.0002	<0.005	0.0197	6.28	<0.01	<0.002	144	<0.02	0.0575	0.0314	0.394	2.81
MW - 3	09/12/03	18.8	<0.01	0.937	<0.002	<0.002	159	0.0236	<0.01	0.0155	11.9	<0.01	37.4	0.472	<0.0002	0.0051	0.019	6.48	<0.01	<0.002	167	<0.02	0.0531	0.0315	0.334	2.27
WQCC Standard		5.0	0.1	1.0	-	0.01	-	0.05	0.05	1.0	0.01	0.05	-	0.2	0.002	0.2	0.2	-	0.05	0.05	-	-	-	10	0.75	-

Note: - denotes no WQCC standard available.

TABLE 4

CONCENTRATIONS OF SEMI-VOLATILES IN GROUNDWATER

LINK ENERGY

6" CENTRAL BATTERY IDLE LINE

LEA COUNTY, NEW MEXICO

ETGI Project # LI2107

All water concentrations are reported in µg/L

EPA SW846-8270C, 3510

SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
MW - 1	09/12/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.139	0.295	<0.05
MW - 2	09/12/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW - 3	09/12/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
WQCC Standard		-	-	-	-	0.0007	-	-	-	-	-	-	-	0.03	-	-

Note: - denotes no WQCC standard available.

TABLE 5

CONCENTRATIONS OF ANIONS/CATIONS IN GROUNDWATER

LINK ENERGY
6" CENTRAL BATTERY IDLE LINE
LEA COUNTY, NEW MEXICO
ETGI Project # LI2107

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW375.4, 325.3, 310, 160.1				
		Sulfate	Chloride	Carbonate	Bicarbonate	TDS
MW - 1	09/12/03	126	361	<10	490	1160
MW - 2	09/12/03	137	358	<10	460	1080
MW - 3	09/12/03	85.2	340	<10	420	1050
WQCC Standard		600	250	-	-	1000

Note: - denotes no WQCC standard available.

APPENDICES

Appendix A
Laboratory Reports

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

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

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

Report#/Lab ID#: 147258 Report Date: 10/03/03
Project ID: EO 2107 6" Idle Line
Sample Name: MW-1
Sample Matrix: water
Date Received: 09/15/2003 Time: 08:00
Date Sampled: 09/12/2003 Time: 14:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	09/16/03	3520	---	---	---	---
Metals Dig.-Hg	---	---	---	---	09/19/03	7470&245.1	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	09/18/03	3015	---	---	---	---
Metals Dig.-HNO ₃ *filtered	---	---	---	---	09/16/03	3005a	---	---	---	---
Total dissolved solids	1160	mg/L	1	<1	09/17/03	160.1	---	1.28	-NA-	-NA-
Aluminum/ICP	24.1	mg/L	0.2	<0.2	09/22/03	6010 & 200.7	---	8.54	93.64	83.52
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	0.27	101	88.24
Barium/ICP	2.04	mg/L	0.05	<0.05	09/23/03	6010 & 200.7	---	0.1	95.62	86.24
Beryllium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	J	2.45	96.48	83.84
Boron/ICP	0.324	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.81	104.72	81.18
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	---	2.66	99.99	86.56
Calcium/ICP*filtered	190	mg/L	10	<10	09/22/03	6010 & 200.7	---	2.46	97.53	118.96
Chromium/ICP	0.252	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.07	93.85	102.14
Cobalt/ICP	0.0117	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	1.24	93.38	83.23
Copper/ICP	0.0201	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.7	99.99	85.41
Iron/ICP	16.2	mg/L	0.2	<0.2	09/23/03	6010 & 200.7	---	2.63	97.1	92.56
Lead/ICP	0.0155	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	2.39	92.29	85.07
Magnesium/ICP*filtered	43.3	mg/L	5	<5	09/22/03	6010 & 200.7	---	0.67	98.27	123.83
Manganese/ICP	1.06	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	1.68	94.39	85.25
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	09/19/03	245.2&7470	---	3.77	104	105
Molybdenum/ICP	<0.005	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	J	0.22	96.98	86.46

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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

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: Robert Eidson

Project ID: EO2107 6" Idle Line
Sample Name: MW-1

Report#/Lab ID#: 147258
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	0.0251	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.53	96.98	99.8	88.1
Potassium/AA #filtered	8.26	mg/L	0.25	<0.25	09/19/03	258.1&7610	---	5.52	100.31	94.73	101.07
Selenium/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	0.47	98.87	98.9	86.7
Silver/GFAA	<0.002	mg/L	0.002	<0.002	09/22/03	272.2&7761	---	2.02	92.66	92.5	104
Sodium/ICP*filtered	159	mg/L	40	<40	09/22/03	6010 & 200.7	---	2.12	99.48	96.5	87.4
Strontium/ICP	2.28	mg/L	0.04	<0.04	09/22/03	6010 & 200.7	---	0.76	98.34	96.95	87.04
Tin/ICP	<0.02	mg/L	0.02	<0.02	09/22/03	6010 & 200.7	---	1.31	95.86	98.43	85.36
Vanadium/ICP	0.0682	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	1.89	91.1	97.98	89.5
Zinc/ICP	0.0337	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	2.39	99.79	99.56	89.82
Alkalinity, bicarbonate	490	mg/L	10	<10	09/16/03	SM2320	---	0.41	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	09/16/03	SM2320	---	0.41	-NA-	-NA-	-NA-
Chloride	361	mg/L	5	<5	09/24/03	325.2&9251	---	0.91	96.25	98.28	95.61
Sulfate	126	mg/L	5	<5	10/02/03	375.4&9038	---	0.3	115.34	101.37	104.34
Extractable organics-PAH	---	---	---	---	09/24/03	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	09/18/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/18/03	8260b	---	7.8	93.9	94.6	88.1
Ethylbenzene	<1	µg/L	1	<1	09/18/03	8260b	---	2.8	99.7	97.1	97
m,p-Xylenes	<1	µg/L	1	<1	09/18/03	8260b	---	1.2	98.6	98.2	96.6
o-Xylene	<1	µg/L	1	<1	09/18/03	8260b	---	2.4	103.9	102.9	100.7
Toluene	<1	µg/L	1	<1	09/18/03	8260b	---	8.1	105.7	105.3	102.5
Acenaphthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	3.6	36.6	99.8	61.5
Acenaphthylene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	2.6	40.5	108.1	63.6
Anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	9.7	34.2	96.9	59.8
Benz[a]anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	6.3	37.5	94.2	80.2
Benz[al]pyrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	8	30.8	102.8	44.5
Benzol[b]fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	5.8	28.3	111.2	49.1
Benzol[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	7.2	79.3	84	92.3
Benzol[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	8.7	36.2	106.6	49.5
Chrysene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	J	1.5	40.3	94.8	48.3
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	2	103.7	90.4	103.9
Fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	21.3	41.5	114.2	73.2
Fluorene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	14.2	24.8	110.5	59.9



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

Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: EO 2107 6" Idle Line
Sample Name: MW-1

Report#/Lab ID#: 147258
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

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	09/24/03	8270c	---	3.5	99.6	98.9	104.2
Naphthalene	0.139	µg/L	0.05	<0.05	09/24/03	8270c	---	6.9	30.6	89.6	55.7
Phenanthrene	0.295	µg/L	0.05	<0.05	09/24/03	8270c	---	16.9	31.9	85.9	58.4
Pyrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	11.3	41	98.6	107.7

7/10/03

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

Client: Environmental Tech Group	Project ID: EO 2107 6" Idle Line	Report#/Lab ID#: 147258
Attn: Robert Eidson	Sample Name: MW-1	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	95.4	80-120	---
Toluene-d8	8260b	90.1	88-110	---
2-Fluorobiphenyl	8270c	113	43-116	---
Nitrobenzene-d5	8270c	79.7	35-114	---
Terphenyl-d14	8270c	107	33-141	---

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

Exceptions Report:

Report #/Lab ID#: 147258 Matrix: water

Client: Environmental Tech Group

Project ID: EO 2107 6" Idle Line

Sample Name: MW-1

Attn: Robert Eidson

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.
Beryllium/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:



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Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 147259 Report Date: 10/03/03
Project ID: EO 21076" Idle Line
Sample Name: MW-2
Sample Matrix: water
Date Received: 09/15/2003 Time: 08:00
Date Sampled: 09/12/2003 Time: 14:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	09/16/03	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	09/19/03	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	09/18/03	3015	---	---	---	---	---
Metals Dig.-HNO ₃ *filtered	---	---	---	---	09/16/03	3005a	---	---	---	---	---
Total dissolved solids	1080	mg/L	1	<1	09/17/03	160.1	---	1.28	-NA-	-NA-	-NA-
Aluminum/ICP	30	mg/L	0.2	<0.2	09/22/03	6010 & 200.7	---	8.54	93.64	96.74	83.52
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	0.27	101	99.48	88.24
Barium/ICP	0.598	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.1	95.62	95.8	86.24
Beryllium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	J	2.45	96.48	96.1	83.84
Boron/ICP	0.394	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.81	104.72	99.42	81.18
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	---	2.66	99.99	98.4	86.56
Calcium/ICP*filtered	177	mg/L	10	<10	09/22/03	6010 & 200.7	---	2.46	97.53	98.08	118.96
Chromium/ICP	0.0217	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.07	93.85	98.64	102.14
Cobalt/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	1.24	93.38	98.72	83.23
Copper/ICP	0.0115	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.7	99.99	98.72	85.41
Iron/ICP	14.8	mg/L	0.2	<0.2	09/23/03	6010 & 200.7	---	2.63	97.1	98.77	92.56
Lead/ICP	0.011	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	2.39	92.29	99.78	85.07
Magnesium/ICP*filtered	36.8	mg/L	5	<5	09/22/03	6010 & 200.7	---	0.67	98.27	98.28	123.83
Manganese/ICP	0.741	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	1.68	94.39	99.04	85.25
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	09/19/03	245.2&7470	---	3.77	104	105	105
Molybdenum/ICP	<0.005	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	J	0.22	96.98	98.4	86.46

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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

Client: Environmental Tech Group	Project ID: EO 2107 6" Idle Line	Report#/Lab ID#: 147259
Attn: Robert Eidson	Sample Name: MW-2	Sample Matrix: water

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 Potassium/AA*filtered Selenium/ICP Silver/GFAA Sodium/ICP*filtered Strontium/ICP Tin/ICP Vanadium/ICP Zinc/ICP	0.0197	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.53	96.98	99.8	88.1
	6.28	mg/L	0.25	<0.25	09/19/03	258.1&7610	---	5.52	100.31	94.73	101.07
	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	0.47	98.87	98.9	86.7
	<0.002	mg/L	0.002	<0.002	09/22/03	272.2&7761	---	2.02	92.66	92.5	104
	1.44	mg/L	40	<40	09/22/03	6010 & 200.7	---	2.12	99.48	96.5	87.4
	2.81	mg/L	0.04	<0.04	09/22/03	6010 & 200.7	---	0.76	98.34	96.95	87.04
	<0.02	mg/L	0.02	<0.02	09/22/03	6010 & 200.7	---	1.31	95.86	98.43	85.36
	0.0575	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	1.89	91.1	97.98	89.5
	0.0314	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	2.39	99.79	99.56	89.82
Alkalinity, bicarbonate Alkalinity, carbonate Chloride Sulfate	46.0	mg/L	10	<10	09/16/03	SM2320	---	0.41	-NA-	-NA-	-NA-
	<10	mg/L	10	<10	09/16/03	SM2320	---	0.41	-NA-	-NA-	-NA-
	35.8	mg/L	5	<5	09/24/03	325.2&9251	---	0.91	96.25	98.28	95.61
	1.37	mg/L	5	<5	10/02/03	375.4&9038	---	0.3	115.34	101.37	104.34
Extractable organics-PAH	---	---	---	---	09/24/03	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	09/18/03	8260b(5030/5035)	---	---	---	---	---
Benzene Ethylbenzene m,p-Xylenes o-Xylene Toluene	<1	µg/L	1	<1	09/18/03	8260b	---	7.8	93.9	94.6	88.1
	<1	µg/L	1	<1	09/18/03	8260b	---	2.8	99.7	97.1	97
	<1	µg/L	1	<1	09/18/03	8260b	---	1.2	98.6	98.2	96.6
	<1	µg/L	1	<1	09/18/03	8260b	---	2.4	103.9	102.9	100.7
	<1	µg/L	1	<1	09/18/03	8260b	---	8.1	105.7	105.3	102.5
Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Dibenz[a,h]anthracene Fluoranthene Fluorene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	3.6	36.6	99.8	61.5
	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	2.6	40.5	108.1	63.6
	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	9.7	34.2	96.9	59.8
	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	6.3	37.5	94.2	80.2
	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	8	30.8	102.8	44.5
	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	5.8	28.3	111.2	49.1
	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	7.2	79.3	84	92.3
	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	8.7	36.2	106.6	49.5
	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	1.5	40.3	94.8	48.3
	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	2	103.7	90.4	103.9
	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	21.3	41.5	114.2	73.2
	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	14.2	24.8	110.5	59.9



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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: EO 2107 6" Idle Line
Sample Name: MW-2

Report#/Lab ID#: 147259
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

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	09/24/03	8270c	---	3.5	99.6	98.9	101.2
Naphthalene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	J	6.9	30.6	89.6	55.7
Phenanthrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	16.9	31.9	85.9	58.4
Pyrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	11.3	41	98.6	107.7



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group	Project ID: EO 2107 6" Idle Line	Report#/Lab ID#: 147259
Attn: Robert Eidson	Sample Name: MW-2	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4 Toluene-d8	8260b	88	80-120	---
	8260b	89.4	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	61.4	43-116	---
	8270c	58.4	35-114	---
	8270c	46.3	33-141	---

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

Exceptions Report:

Report #/Lab ID#: 147259 Matrix: water
Client: Environmental Tech Group Attn: Robert Eidson
Project ID: EO 2107 6" Idle Line
Sample Name: MW-2

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	Qualifier	Comment
Arsenic/ICP	J	See J-flag discussion above.
Beryllium/ICP	J	See J-flag discussion above.
Cobalt/ICP	J	See J-flag discussion above.
Molybdenum/ICP	J	See J-flag discussion above.
Selenium/ICP	J	See J-flag discussion above.
Naphthalene	J	See J-flag discussion above.

Notes:



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Client: Environmental Tech Group

Attn: Robert Eidson

Address: 2540 W. Marland

Hobbs

NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 147260 Report Date: 10/03/03

Project ID: EO 2107 6" Idle Line

Sample Name: MW-3

Sample Matrix: water

Date Received: 09/15/2003 Time: 08:00

Date Sampled: 09/12/2003 Time: 15:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	09/16/03	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	09/19/03	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	09/19/03	3015	---	---	---	---	---
Metals Dig.-HNO ₃ *filtered	---	---	---	---	09/16/03	3005a	---	---	---	---	---
Total dissolved solids	1050	mg/L	1	<1	09/17/03	160.1	---	1.28	-NA-	-NA-	-NA-
Aluminum/ICP	18.8	mg/L	0.2	<0.2	09/22/03	6010 & 200.7	---	8.54	93.64	96.74	83.52
Arsenic/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	0.27	101	99.48	88.24
Barium/ICP	0.937	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.1	95.62	95.8	86.24
Beryllium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	J	2.45	96.48	96.1	83.84
Boron/ICP	0.334	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.81	104.72	99.42	81.18
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	09/22/03	6010 & 200.7	---	2.66	99.99	98.4	86.56
Calcium/ICP*filtered	159	mg/L	10	<10	09/22/03	6010 & 200.7	---	2.46	97.53	98.08	118.96
Chromium/ICP	0.236	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.07	93.85	98.64	102.14
Cobalt/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	1.24	93.38	98.72	83.23
Copper/ICP	0.0155	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.7	99.99	98.72	85.41
Iron/ICP	11.9	mg/L	0.2	<0.2	09/23/03	6010 & 200.7	---	2.63	97.1	98.77	92.56
Lead/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	J	2.39	92.29	99.78	85.07
Magnesium/ICP*filtered	37.4	mg/L	5	<5	09/22/03	6010 & 200.7	---	0.67	98.27	98.28	123.83
Manganese/ICP	0.472	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	1.68	94.39	99.04	85.25
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	09/19/03	245.2&7470	---	3.77	104	105	105
Molybdenum/ICP	0.0051	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	0.22	96.98	98.4	86.46

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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. D = 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	Project ID: EO 2107 6" Idle Line	Report#/Lab ID#: 147260
Attn: Robert Eidson	Sample Name: MW-3	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	0.019	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.53	96.98	99.8	88.1
Potassium/AA*filtered	6.48	mg/L	0.25	<0.25	09/19/03	258.1&7610	---	5.52	100.31	94.73	101.07
Selenium/ICP	<0.01	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	0.47	98.87	98.9	86.7
Silver/GFAA	<0.002	mg/L	0.002	<0.002	09/22/03	272.2&7761	---	2.02	92.66	92.5	104
Sodium/ICP*filtered	167	mg/L	40	<40	09/22/03	6010 & 200.7	---	2.12	99.48	96.5	87.4
Strontium/ICP	2.27	mg/L	0.04	<0.04	09/22/03	6010 & 200.7	---	0.76	98.34	96.95	87.04
Tin/ICP	<0.02	mg/L	0.02	<0.02	09/22/03	6010 & 200.7	---	1.31	95.86	98.43	85.36
Vanadium/ICP	0.0531	mg/L	0.01	<0.01	09/22/03	6010 & 200.7	---	1.89	91.1	97.98	89.5
Zinc/ICP	0.0315	mg/L	0.005	<0.005	09/22/03	6010 & 200.7	---	2.39	99.79	99.56	89.82
Alkalinity, bicarbonate	420	mg/L	10	<10	09/16/03	SM2320	---	0.41	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	09/16/03	SM2320	---	0.41	-NA-	-NA-	-NA-
Chloride	340	mg/L	5	<5	09/24/03	325.2&9251	---	0.91	96.25	98.28	95.61
Sulfate	85.2	mg/L	2	<2	10/02/03	375.4&9038	---	0.3	115.34	101.37	104.34
Extractable organics-PAH	---	---	---	---	09/24/03	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	09/18/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/18/03	8260b	---	7.8	93.9	94.6	88.1
Ethylbenzene	<1	µg/L	1	<1	09/18/03	8260b	---	2.8	99.7	97.1	97
m,p-Xylenes	<1	µg/L	1	<1	09/18/03	8260b	---	1.2	98.6	98.2	96.6
o-Xylene	<1	µg/L	1	<1	09/18/03	8260b	---	2.4	103.9	102.9	100.7
Toluene	<1	µg/L	1	<1	09/18/03	8260b	---	8.1	105.7	105.3	102.5
Acenaphthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	3.6	36.6	99.8	61.5
Acenaphthylene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	2.6	40.5	108.1	63.6
Anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	9.7	34.2	96.9	59.8
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	6.3	37.5	94.2	80.2
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	8	30.8	102.8	44.5
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	5.8	28.3	111.2	49.1
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	7.2	79.3	84	92.3
Benzo[k]fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	8.7	36.2	106.6	49.5
Chrysene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	1.5	40.3	94.8	48.3
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	2	103.7	90.4	103.9
Fluoranthene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	21.3	41.5	114.2	73.2
Fluorene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	14.2	24.8	110.5	59.9

Client: Environmental Tech Group Attn: Robert Eidson	Project ID: EO 2107 6" Idle Line Sample Name: MW-3	Report#/Lab ID#: 147260 Sample Matrix: water
---	---	---

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ¹
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	3.5	99.6	98.9	104.2
Naphthalene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	J	6.9	30.6	89.6	55.7
Phenanthrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	16.9	31.9	85.9	58.4
Pyrene	<0.05	µg/L	0.05	<0.05	09/24/03	8270c	---	11.3	41	98.6	107.7



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Client: Environmental Tech Group Attn: Robert Eidson	Project ID: EO 2107 6" Idle Line Sample Name: MW-3	Report#/Lab ID#: 147260 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4 Toluene-d8	8260b	91.1	80-120	---
	8260b	90	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	69.4	43-116	---
	8270c	64.7	35-114	---
	8270c	55.6	33-141	---

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

Exceptions Report:

Report #/Lab ID#: 147260 Matrix: water
Client: Environmental Tech Group
Project ID: EO 2107 6" Idle Line
Sample Name: MW-3
Attn: Robert Eidson

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. 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.
Beryllium/ICP	J	See J-flag discussion above.
Cobalt/ICP	J	See J-flag discussion above.
Lead/ICP	J	See J-flag discussion above.
Naphthalene	J	See J-flag discussion above.

Notes:

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Bill to (if different):

Company Name Self
Address _____

City _____ State _____ Zip _____

ATTN:

Phone _____
Fax _____

Project Name/PO#: 102107 6" Idle Line Sampler: Justin Frick

Analyses Requested (1)

Please attach explanatory information as required

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 units (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	Name	Affiliation	Date
LEE H	ETGI	9-12-03	William Humphrey	ASI	9/15/03
					0800

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

FILE

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Report# / Lab ID#: 150571 Report Date: 12/22/03
Project ID: EO2107 6" Central Battery Idleline
Sample Name: MW-1
Sample Matrix: water
Date Received: 12/09/2003 Time: 15:00
Date Sampled: 12/04/2003 Time: 09:00

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 FAX: 505 397-4701

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
Volatiles organics-8260b/BTEX	---		---		12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	9.8	79	95.2	107.1
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	5.5	105.3	106	113.8
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	5	99.6	101.1	106.3
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	15	102.9	115	120.8
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	7.7	101.8	101.1	109.5

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

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.

QUALITY

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group	Project ID: EO2107 6" Central Battery Ideline	Report#/Lab ID#: 150571
Attn: Camille Reynolds	Sample Name: MW-1	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	101	88-110	---

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 150572 **Report Date:** 12/22/03
Project ID: EO2107 6" Central Battery Idleline
Sample Name: MW-2
Sample Matrix: water
Date Received: 12/09/2003 **Time:** 15:00
Date Sampled: 12/04/2003 **Time:** 09:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	9.8	79	95.2	107.1
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	5.5	105.3	106	113.8
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	5	99.6	101.1	106.3
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	15	102.9	115	120.8
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	7.7	101.8	101.1	109.5

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

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 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S3 = MS and/or MSD 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: Camille Reynolds

Project ID: EO2107 6" Central Battery Idleline
Sample Name: MW-2

Report#/Lab ID#: 150572
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	90.8	80-120	---
Toluene-d8	8260b	105	88-110	---

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

QUALITY

3512 Montopolis Drive, Austin, TX 78744 &
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Client: Environmental Tech Group
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Report#/Lab ID#: 150573 **Report Date:** 12/22/03
Project ID: EO2107 6" Central Battery Idleline
Sample Name: MW-3
Sample Matrix: water
Date Received: 12/09/2003 **Time:** 15:00
Date Sampled: 12/04/2003 **Time:** 10:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	9.8	79	95.2	107.1
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	5.5	105.3	106	113.8
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	5	99.6	101.1	106.3
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	15	102.9	115	120.8
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	7.7	101.8	101.1	109.5

QUALITY ASSURANCE DATA¹

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,


Richard Elton

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.

QALYS

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REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	95.2	80-120	---
Toluene-d8	8260b	108	88-110	---

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

