

AP - 29

ANNUAL MONITORING REPORT

YEAR(S):
2004



ENVIRONMENTAL PLUS, INC.

Micro-Blaze

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STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

14 April 2004

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

Re: Annual Monitoring Report Link Energy Kimbrough Sweet #2000-10757
UL-G Section 3 T18S R37E, Lea County, New Mexico
Landowner: NMSLO

AP-29

Dear Mr. Martin,

Environmental Plus, Inc. (EPI), on behalf of Mr. Frank Hernandez, Link Energy, submits for your consideration this *Annual Monitoring Report* for the above-referenced site. Based on data collected during the past year, Link Energy recommends continued monthly monitoring of the monitoring well network for PSH recovery and collection of groundwater level data. In addition, Link Energy is recommending the installation additional recovery wells to enhance recovery of the PSH and the continued semi-annual sampling of the monitoring well network.

Should you have any questions or comments please call Mr. Ben Miller or myself at EPI's offices, or at 505-390-2088 or 505-390-7306 respectively. Mr. Hernandez may be contacted through Link's Midland office at 915-638-3799 or 505-631-3095.

All official correspondence should be addressed to:

Mr. Frank Hernandez
Link Energy
P.O. Box 1660
5805 East Highway 80
Midland, Texas 79703

Sincerely,

ENVIRONMENTAL PLUS, INC.

Iain Olness, P.G.
Hydrogeologist

cc: Larry W. Johnson, NMOCD – Hobbs District Office
Frank Hernandez, Link Energy – Midland
Jeff Dann, Link Energy – Houston
Sherry Miller, EPI President
Ben Miller, EPI Vice President and General Manager

P.O. BOX 1558

...

2100 AVENUE O

...

EUNICE, NEW MEXICO 88231

TELEPHONE 505•394•3481

...

FAX 505•394•2601

ENVIRONMENTAL PLUS, INC.



ANNUAL MONITORING REPORT

KIMBROUGH SWEET

LINK REF: 2000-10757

**SW¼ OF THE NE¼ OF SECTION 3, TOWNSHIP 18 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO**

**~7.25 MILES NORTHWEST (302°) OF
HOBBS, LEA COUNTY, NEW MEXICO**

LATITUDE: N32° 46' 48"

LONGITUDE: W103° 14' 18"

APRIL 14, 2004

PREPARED BY:

Environmental Plus, Inc.

2100 Avenue O

P.O. Box 1558

Eunice, NM 88231

Phone: (505)394-3481

FAX: (505)394-2601

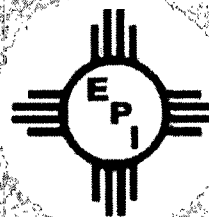


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APPENDIX

Appendix A	Groundwater Laboratory Analytical Results and Chain-of-Custody Forms
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I. Background

The “Kimbrough Sweet” (2000-10757) release site is located approximately 7.25 miles northwest of Hobbs in Lea County, New Mexico, at an elevation of approximately 3,727 feet above mean sea level (reference Figures 1 and 2). The site is located in the southwest quarter of the northeast quarter of section 3, range 37 east, township 18 south. There are no residences or surface water bodies within a 1,000-foot radius of the leak site.

The initial New Mexico Oil Conservation Division (NMOCD) notification form C-141 submitted by EOTT reported an unknown volume of crude oil released with zero barrels recovered. The release is believed to have been due to internal corrosion of the pipeline. The release covered approximately 15,613 square feet of pipeline right-of-way, caliche road and land owned by the State of New Mexico.

During initial investigative activities conducted from March 5-14, 2001, which included the advancement of nine soil borings, it was determined that groundwater was situated approximately 47 feet below ground surface (bgs) and that groundwater had been impacted. Upon completion of the soil borings, mitigation activities commenced, specifically, the excavation of impacted soil to a depth of approximately 15 feet bgs. This soil was mechanically aerated, treated with bio-enhancing nutrients and microbes and stockpiled on plastic within a fenced area. In addition, a groundwater monitoring well (CMW) was installed to recover phase separated hydrocarbons (PSH) encountered during the advancement of the soil borings (reference Figure 3).

Due to fact that soil and groundwater had been impacted above NMOCD remedial thresholds, a *Soil and Groundwater Remediation Plan* was submitted in July 2001. This plan recommended the construction of an in-situ passive bio-cell to treat the 16,500 cubic yards of soil excavated during the mitigation phase. The cell was to be constructed by installing a clay barrier in the bottom of the excavation and placing the excavated, impacted soil on top of the clay barrier. The plan also recommended that the bio-cell be monitored on a quarterly basis to document attenuation and achievement of the NMOCD remedial goals. To remediate the impacted soil situated greater than and equal to 15 feet bgs, it was recommended to install a vapor recovery system with a single extraction point and eight perimeter induction points with alternating screened intervals and to monitor the system exhaust on a monthly basis to document attenuation.

The *Soil and Groundwater Remediation Plan* also recommended the installation of three additional groundwater monitoring wells to determine groundwater flow direction and delineate the lateral extents of impacts. In addition, it was recommended that a PSH recovery system be installed at the site.

On September 24, 2001, the NMOCD approved the *Soil and Groundwater Remediation Plan* and implementation of the plan began in November 2001. The bio-cell was constructed and the excavated impacted soil was placed in the cell, groundwater monitoring wells installed and monitoring initiated. Samples were collected from the bio-cell on January 30, February 25, and July 15, 2002, and March 27, 2003. The groundwater monitoring well network was

sampled/gauged and PSH recovered on January 9, October 4, November 11, and December 11, 2002, February 20, March 26, April 8, April 23, April 24, April 25, May 3, May 6, and June 9, 2003. PSH recovery was completed manually from October 2002 through May 2003, at which time an automated recovery system was installed.

II. Field Activities

The groundwater monitoring well network was sampled on February 20, 2003 and the samples submitted to an independent laboratory for the quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX).

In addition to the sampling event, site visits were made periodically to monitor the automated recovery system and collect data as to the amount of PSH recovered.

III. Groundwater Gradient and PSH Thickness

Monitoring wells were gauged prior to bailing to determine the depth to groundwater and the thickness of any PSH. Measurements of groundwater levels during the past year indicate that water levels have generally decreased by an average of 0.83 feet. PSH levels in the impacted monitoring well (CMW) have fluctuated during the past two years, with thicknesses ranging from 6.73 to 8.43 feet and average PSH thickness of 8.0 feet. A summary of groundwater elevations and PSH thickness is included in Table 1.

Groundwater monitoring CMW was not gauged between June and December due to an automated recovery system being in place. Site visits were made to ensure the recovery system was operating as designed.

Based on data collected during the past year, groundwater is flowing to the east (reference Figure 10).

IV. PSH Recovery

Recovery of PSH has been accomplished via an automated recovery system. Approximately 1,155 gallons of PSH have been recovered through December 31, 2003.

V. Groundwater Sampling

The groundwater monitoring well network was sampled on February 20, 2003 and the samples submitted for quantification of BTEX using EPA Method 8260b. Groundwater monitoring well CMW was not only sampled due to the presence of phase separated hydrocarbons (PSH). The wells were purged a minimum of three well volumes or dry and samples collected utilizing dedicated or disposable sample bailers. Samples were then placed on ice and shipped to an independent laboratory under chain-of-custody for analyses.

VI. Groundwater Analytical Results

Analytical results for the samples collected on February 20, 2003 from groundwater monitoring wells SMW, EMW and NWMW were below the laboratory method detection limits (MDL).

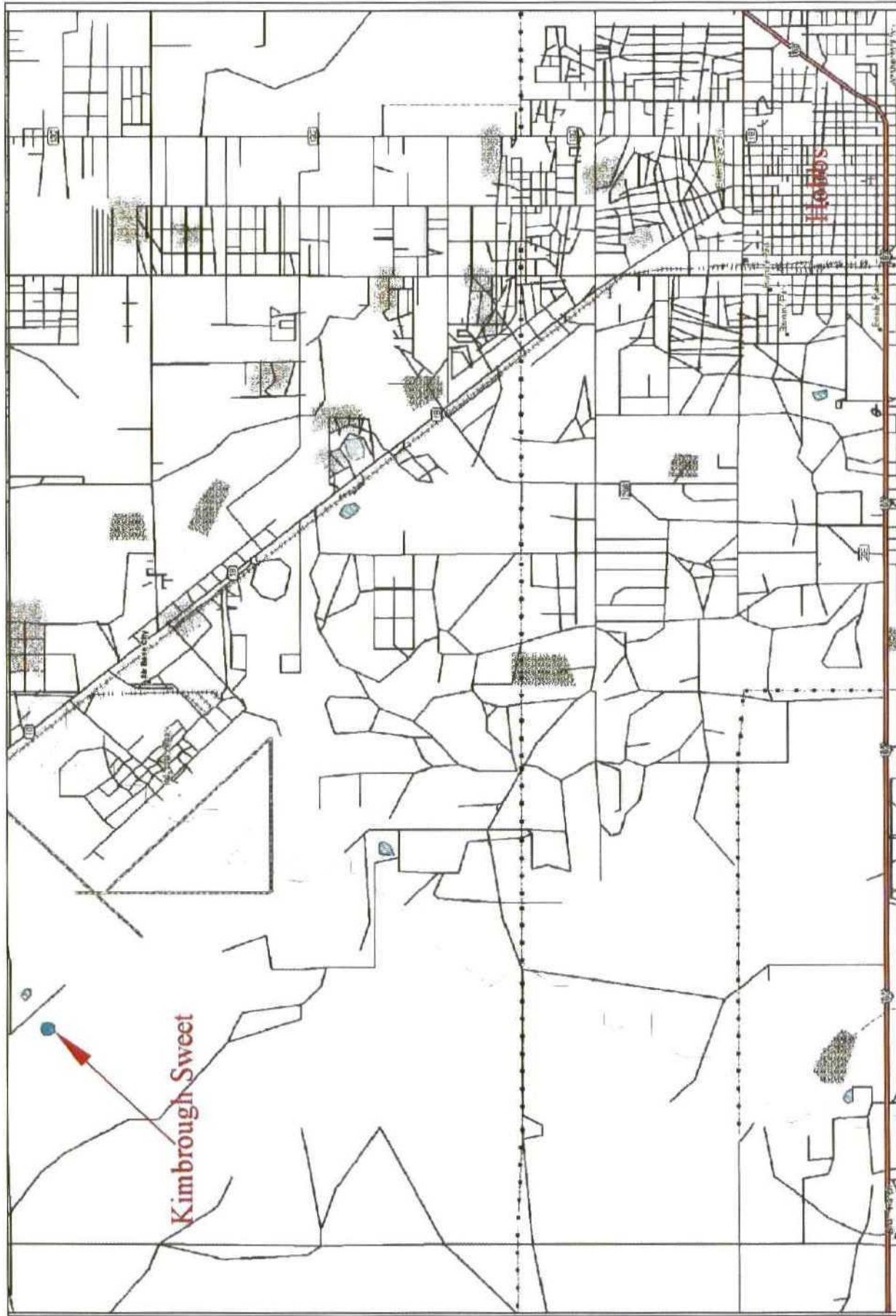
A summary of groundwater analytical results is included as Table 2 and copies of the analytical results for samples collected on February 11, 2004 are included as Appendix A.

VII. Recommendations

Based on field monitoring and analytical results collected during the past year and analyzed in conjunction with data collected during the initial investigation, the following recommendations are made:

- 1) Due to the thickness of PSH detected on the water table in groundwater monitoring well CMW, it is recommended that additional wells be installed to enhance recovery of the PSH.
- 2) Continue to monitor the groundwater monitoring well network and the PSH recovery system on a monthly basis. In addition, collect groundwater level data from the monitoring well network on a monthly basis.
- 3) Due to the fact that no contaminants have been detected in the three perimeter groundwater monitoring wells, it is recommended that the groundwater monitoring well network be sampled on a semi-annual basis and the samples submitted for quantification of BTEX. Should analytical results for any of the proposed and/or existing monitoring wells indicate the presence of contaminants, the impacted wells should be sampled on a quarterly basis. In the event PSH are not detected during a sampling event in groundwater monitoring wells currently containing PSH, these wells will be included in the quarterly sampling event.
- 4) The samples should be analyzed for the presence of PAHs during the next sampling event. If analytical results indicate the presence of PAHs, the samples should continue to be analyzed for the presence of PAHs on an annual basis.

FIGURES



	REVISED: DWG By: Iain Olness March 2004	9,900 SHEET 1 of 1
0 4,950 Feet	Lea County, New Mexico SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E N 32° 46' 48.0" W 103° 14' 18.0" Elevation: 3,727 feet amsl	Figure 1 Area Map Link Energy, LLC Kimbrough Sweet

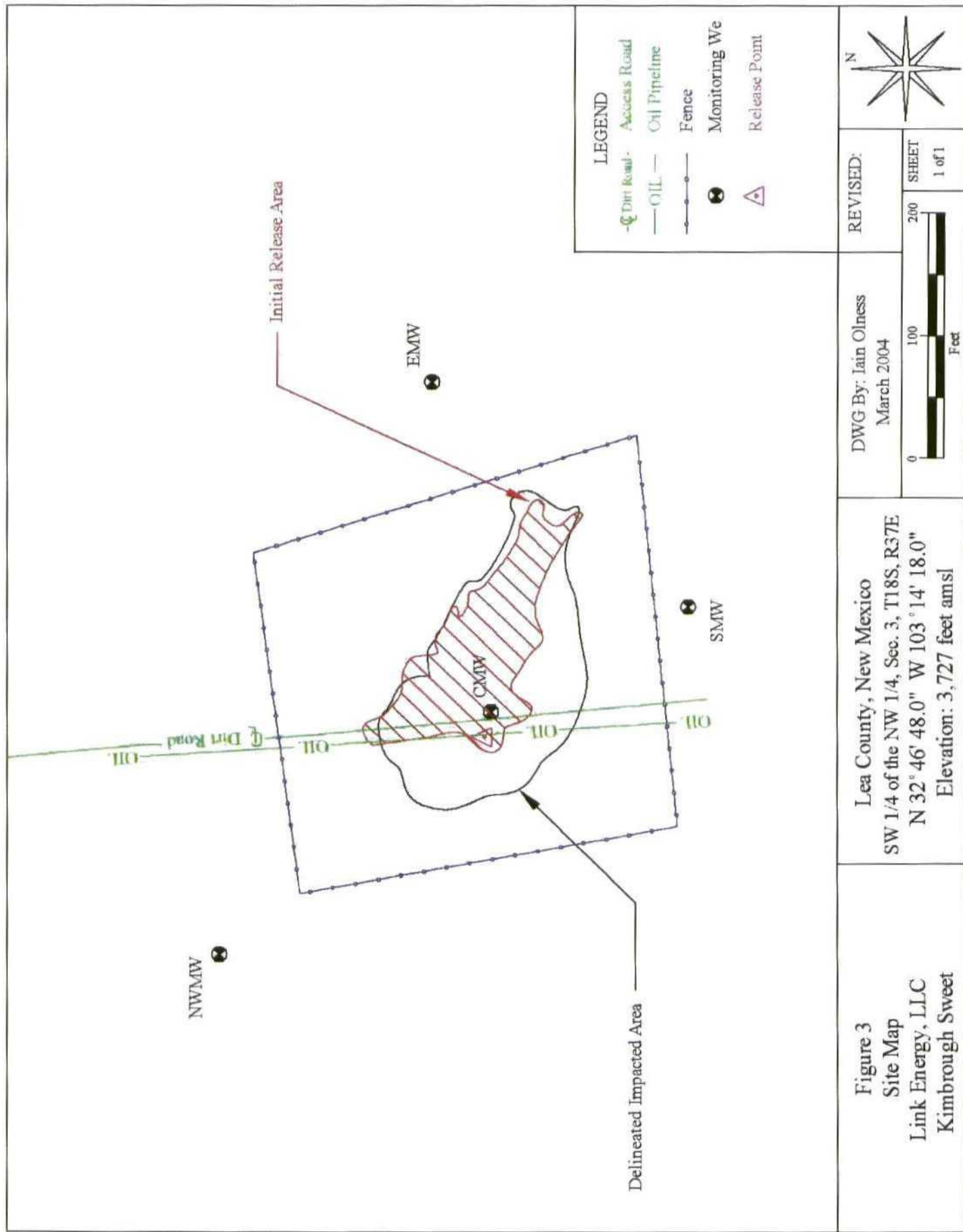


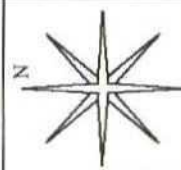
Figure 3
Site Map
Link Energy, LLC
Kimbrough Sweet

Lea County, New Mexico
SW 1/4 of the NW 1/4, Sec. 3, T18S, R37E
N 32° 46' 48.0" W 103° 14' 18.0"
Elevation: 3,727 feet amsl

DWG By: Iain Olness
March 2004

REVISED:

0 100 200
Feet
SHEET
1 of 1



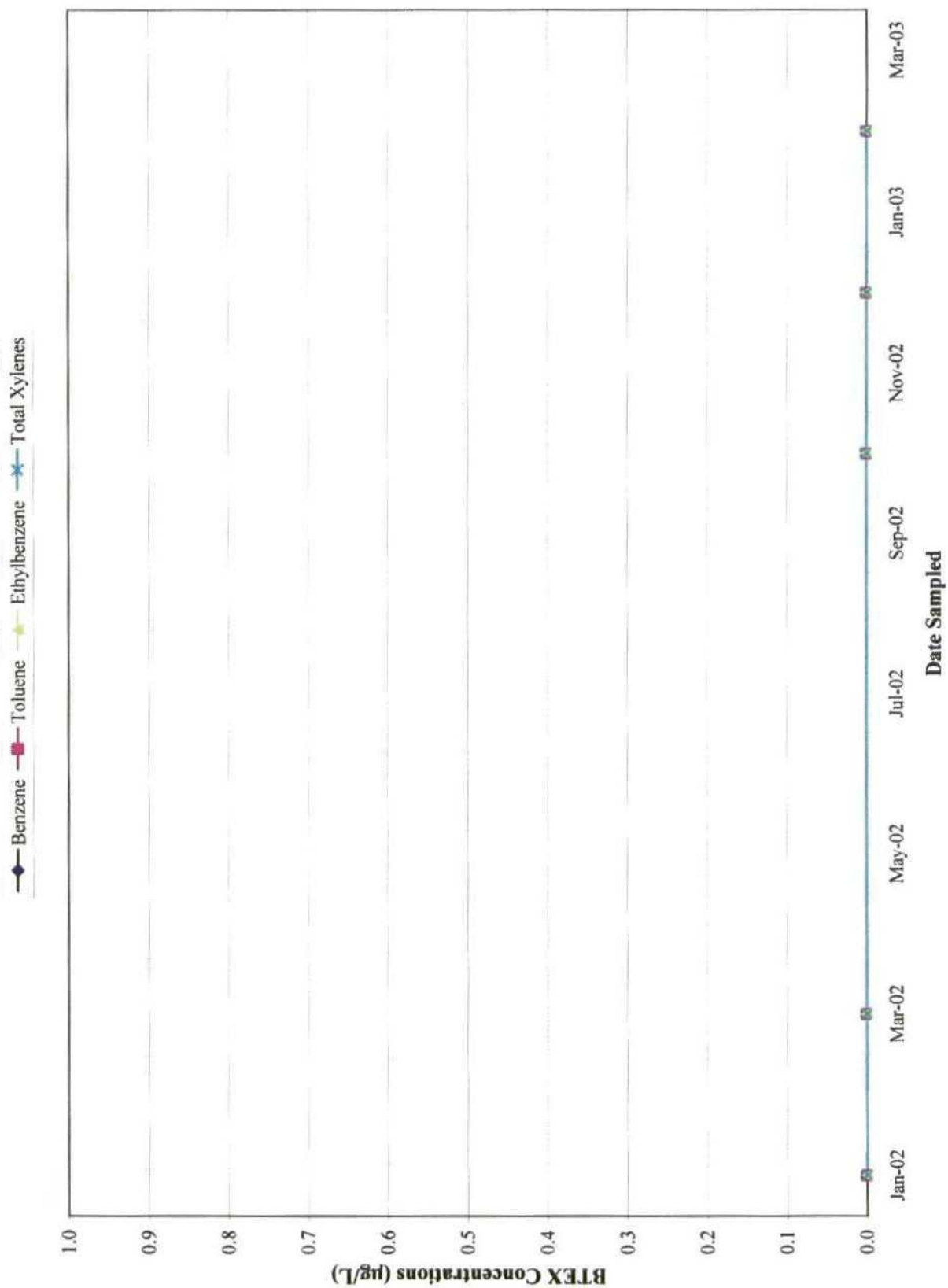


Figure 4: BTEX Concentrations in Groundwater Monitoring Well SMW from 01/24/02 through 02/20/03, Link Energy Kimbrough Sweet, Lea County, New Mexico.

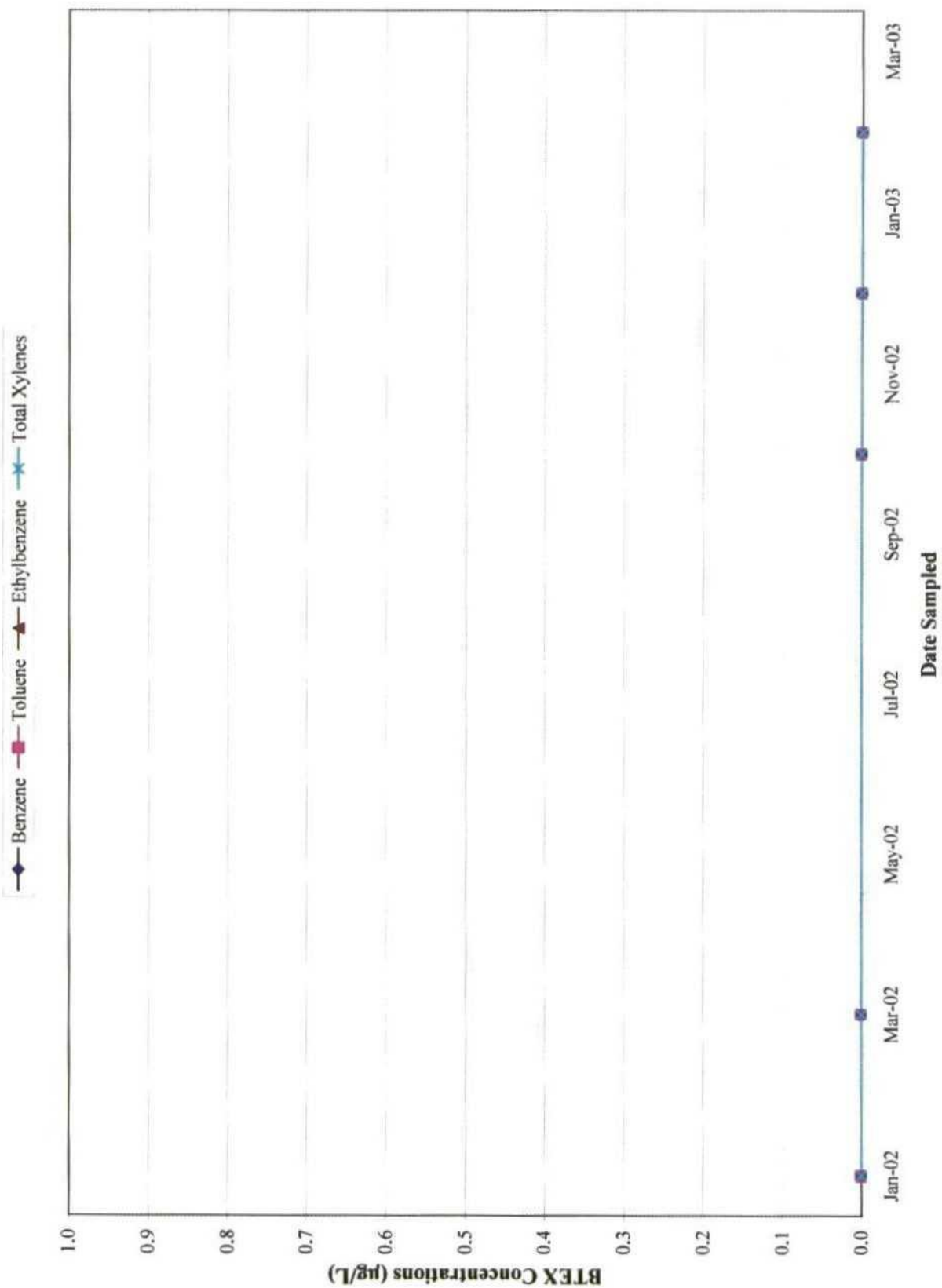


Figure 5: BTEX Concentrations in Groundwater Monitoring Well EMW from 01/24/02 through 02/20/03, Link Energy Kimbrough Sweet, Lea County, New Mexico.

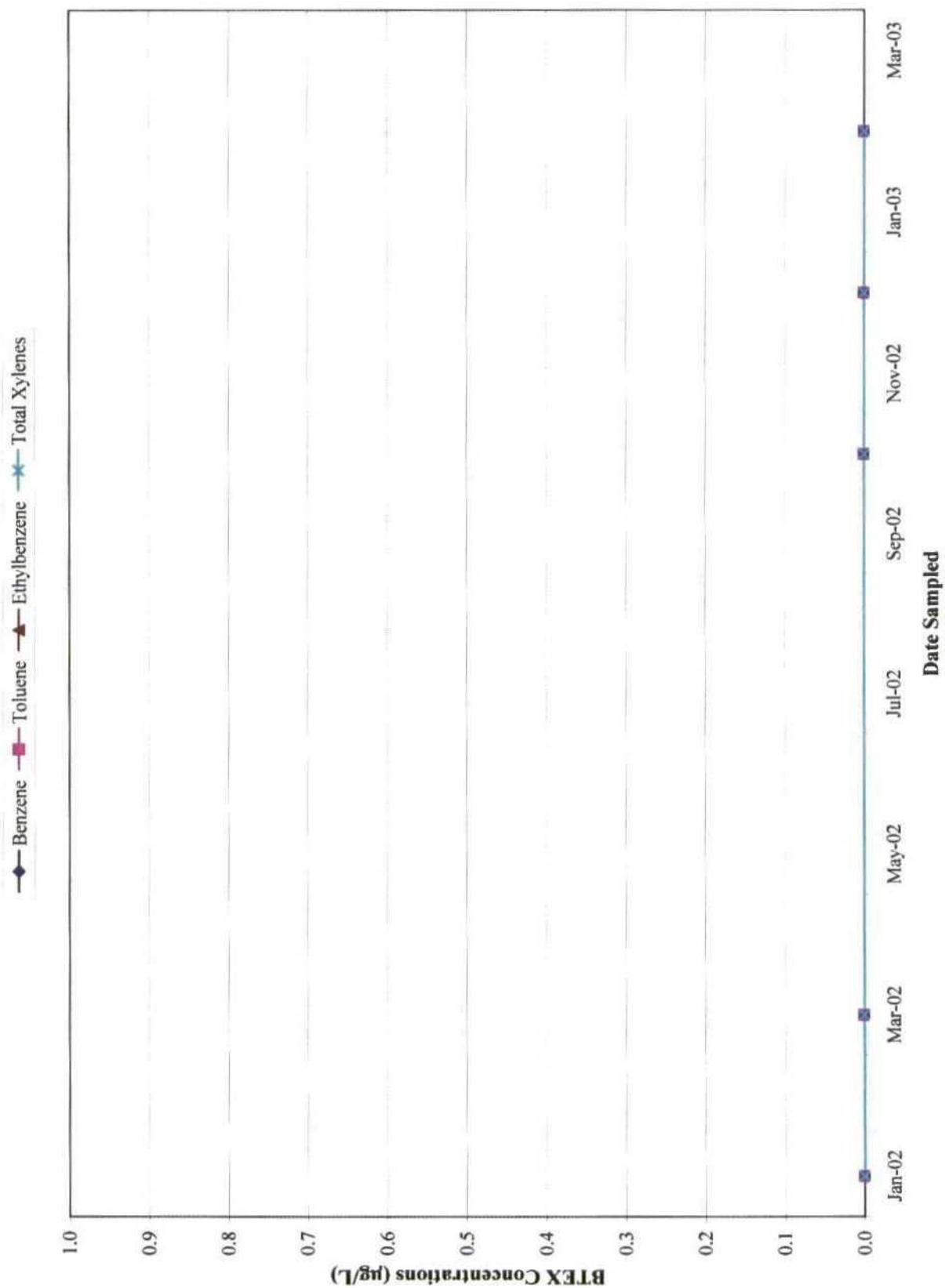


Figure 6: BTEX Concentrations in Groundwater Monitoring Well NWMW from 01/24/02 through 02/20/03, Link Energy Kimbrough Sweet, Lea County, New Mexico.

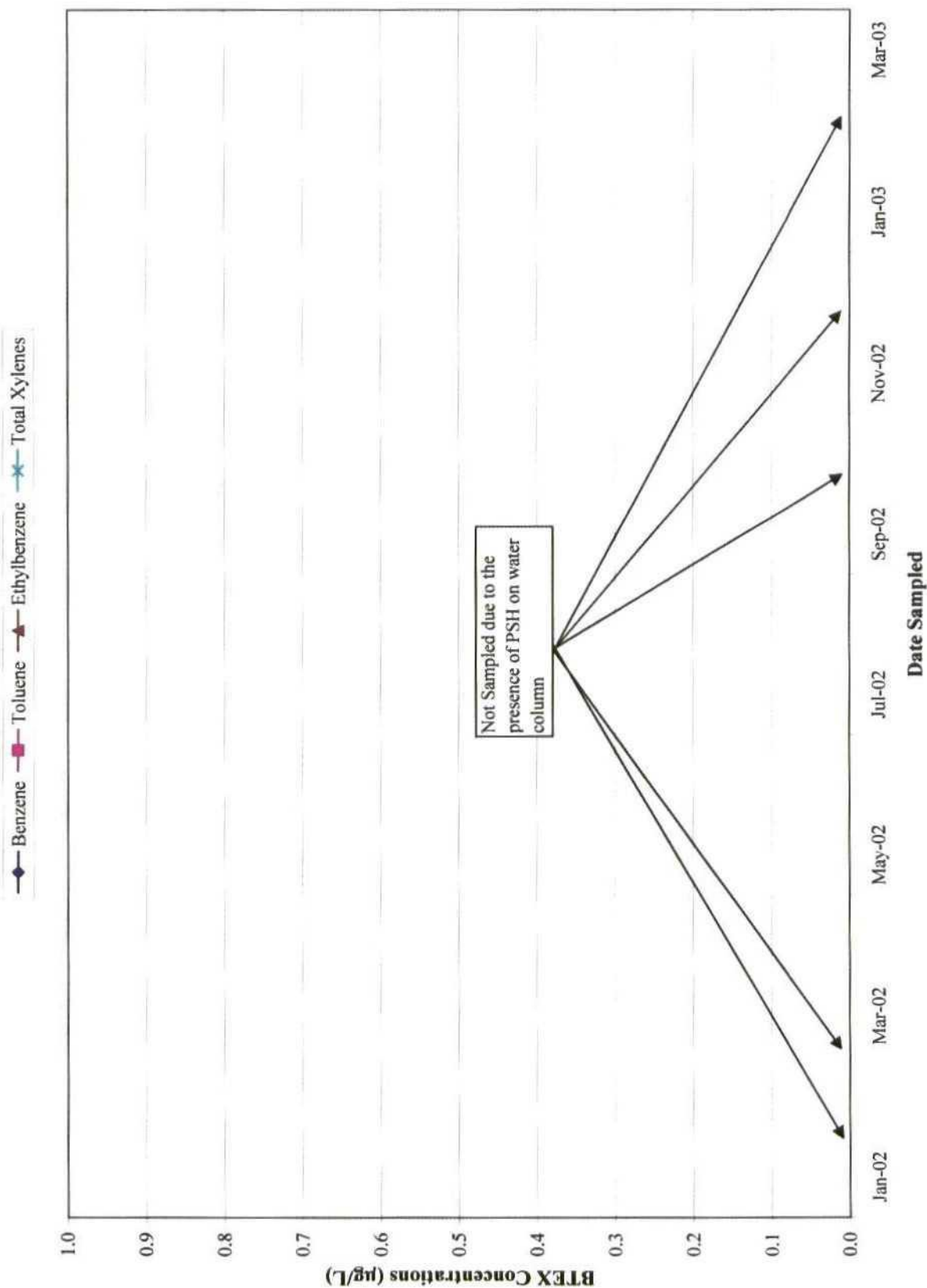


Figure 7: BTEX Concentrations in Groundwater Monitoring Well CMW from 01/09/02 through 02/20/03, Link Energy Kimbrough Sweet, Lea County, New Mexico.

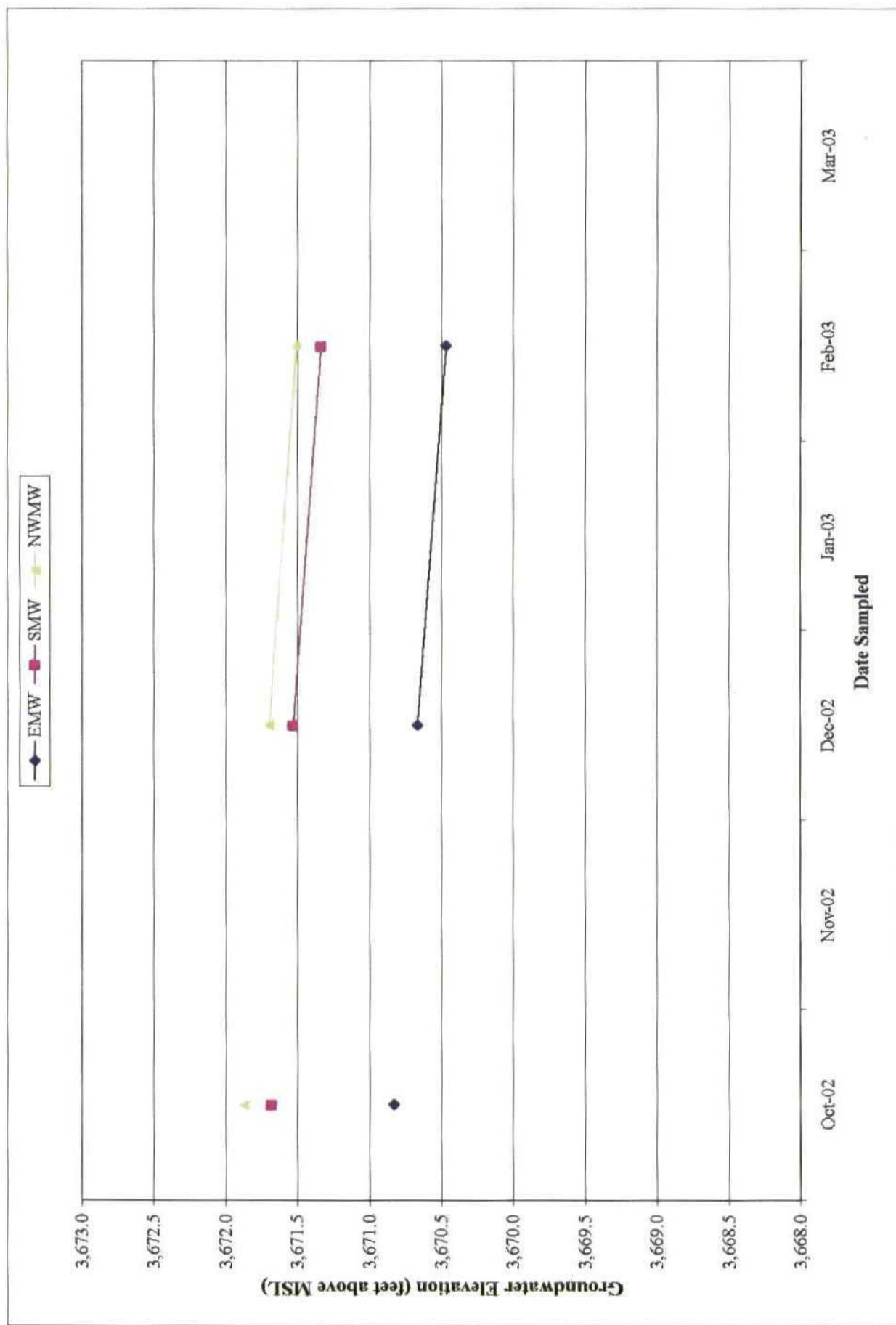


Figure 8: Hydrograph for Monitoring Wells EMW, SMW and NWMW, Link Energy Kimbrough Sweet, Lea County, New Mexico from 10/04/02 through 02/20/03.

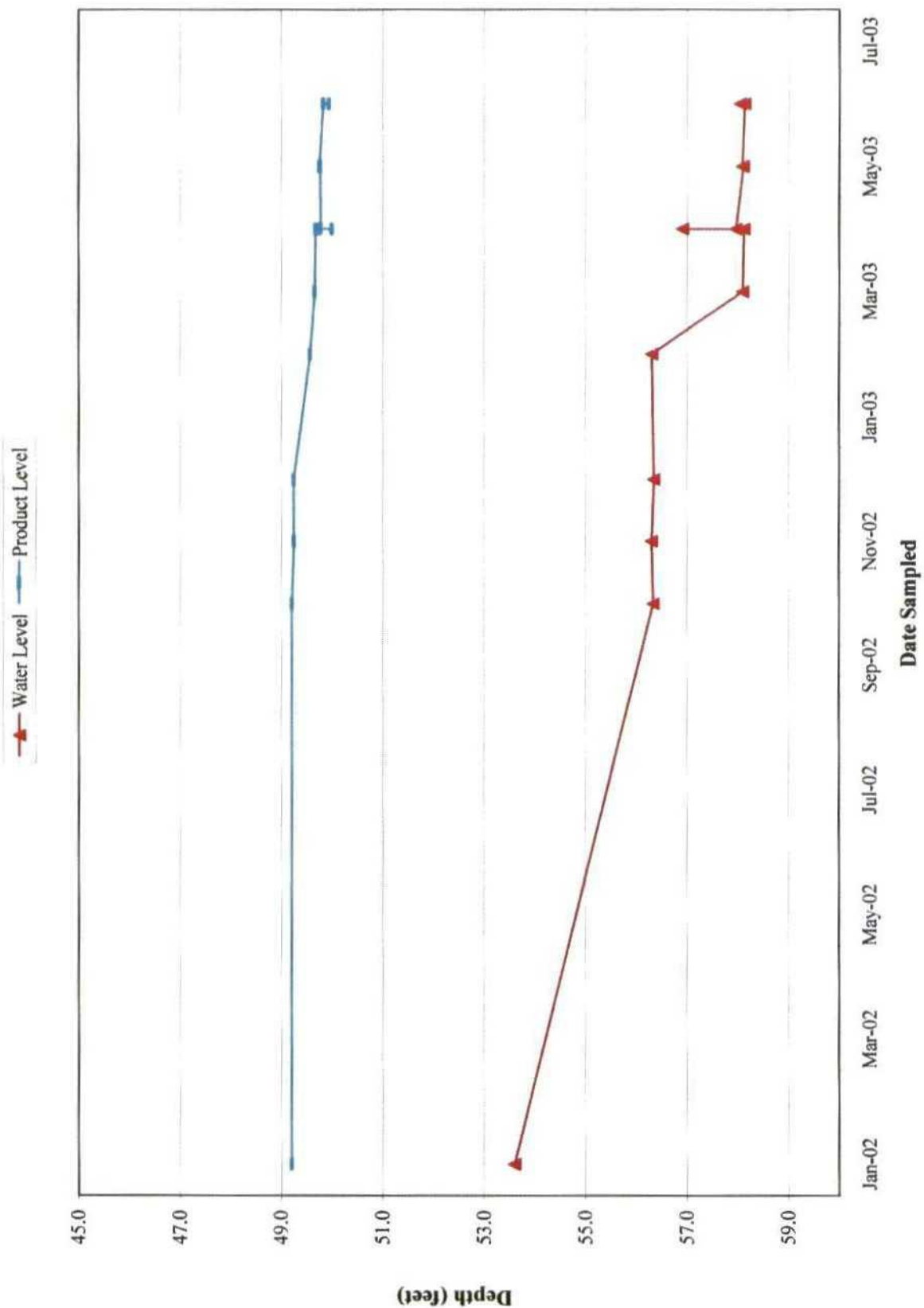
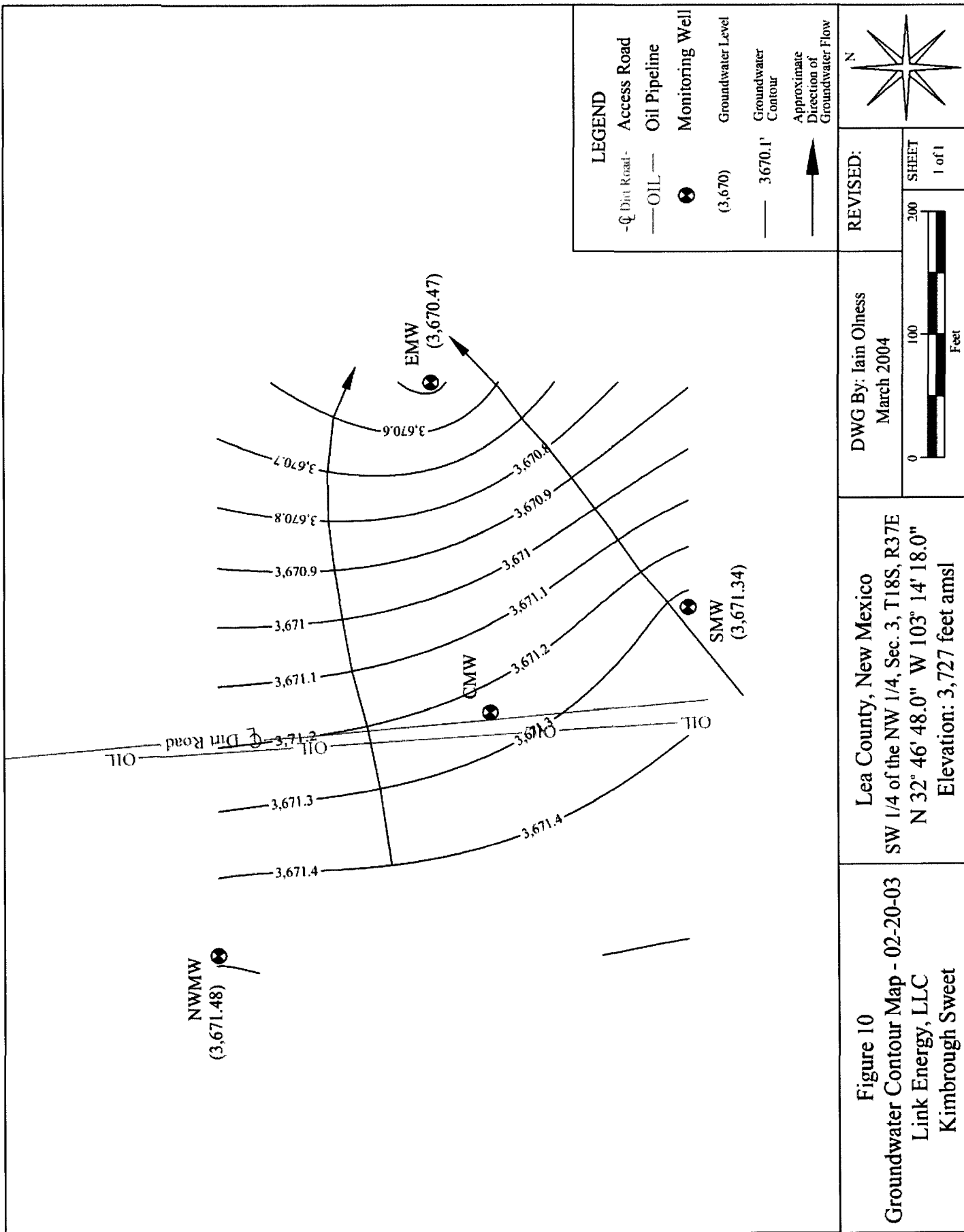
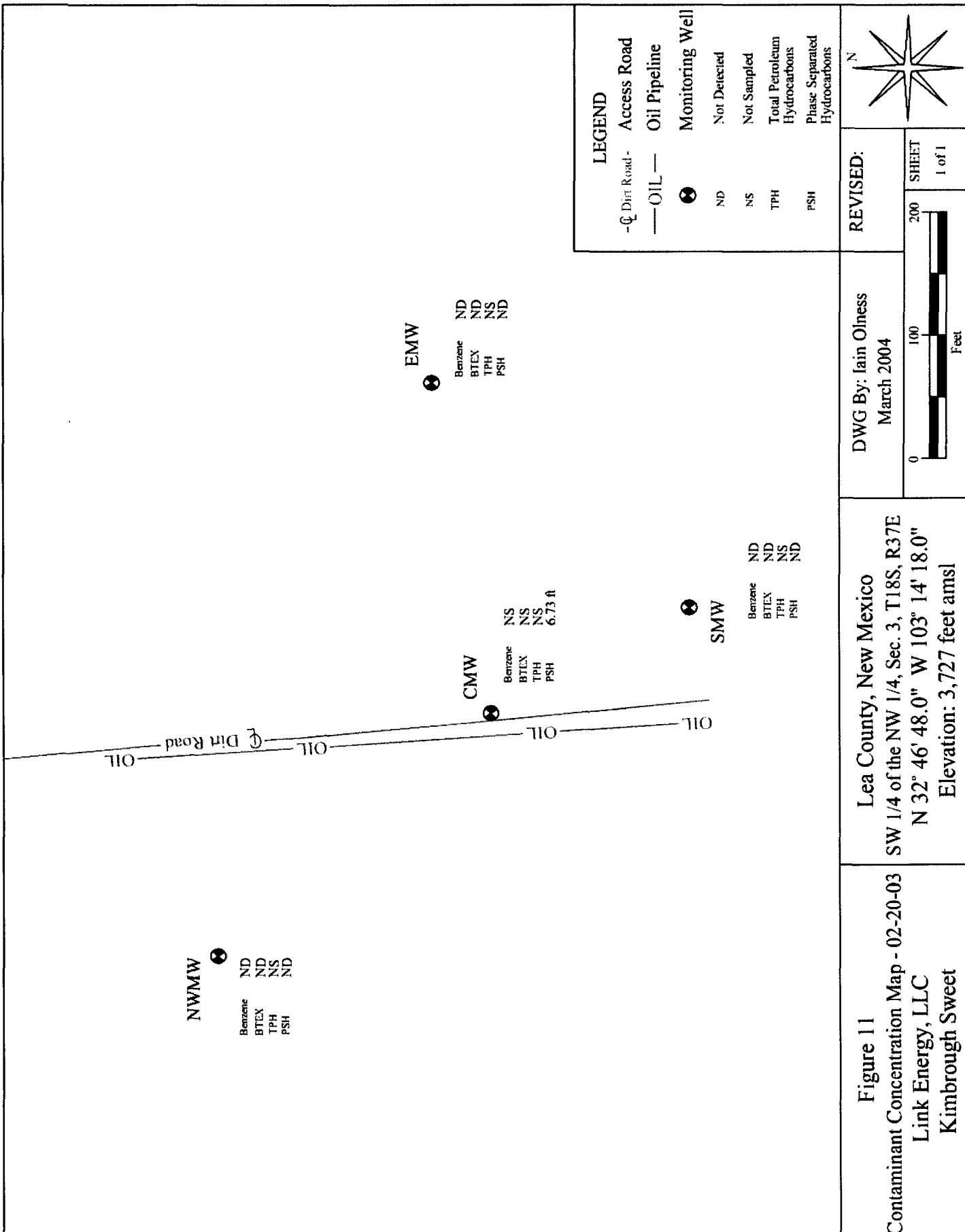


Figure 9: Phase Separated Hydrocarbon and Water Levels for Monitoring Well CMW, Link Energy Kimbrough Sweet, Lea County, New Mexico from 01/09/02 through 06/30/03.





REVISED:

DWG By: Iain Olness
March 2004

0 100 200
Feet
SHEET
1 of 1

Lea County, New Mexico
SW 1/4 of the NW 1/4, Sec. 3, T18S, R37E
N 32° 46' 48.0" W 103° 14' 18.0"
Elevation: 3,727 feet amsl

Figure 11
Contaminant Concentration Map - 02-20-03
Link Energy, LLC
Kimbrough Sweet

TABLES

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Kimbrough Sweet - Ref #2000-10757

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
CMW	01/09/02	Not Surveyed	49.20	53.60	Not Surveyed	4.40
	10/04/02		49.21	56.33		7.12
	11/11/02		49.25	56.30		7.05
	12/11/02		49.25	56.34		7.09
	02/20/03		49.57	56.30		6.73
	03/26/03		49.66	58.09		8.43
	04/08/03		49.68	58.11		8.43
	04/23/03		50.00	56.90		6.90
	04/24/03		49.75	58.10		8.35
	04/25/03		49.78	57.95		8.17
	05/03/03		49.77	58.10		8.33
	05/06/03		49.75	58.08		8.33
	06/09/03		49.83	58.13		8.30
	06/30/03		49.95	58.04		8.09
EMW	01/09/02	3,720.60	--	49.77	3,670.83	--
	10/04/02		--	49.93	3,670.67	--
	11/11/02		--	50.13	3,670.47	--
	12/11/02	3,720.60	--			
	02/20/03	3,720.60	--			
	03/26/03					
	04/08/03					
	04/23/03					
	04/24/03					
	04/25/03					
	05/03/03					
	05/06/03					
	06/09/03					
	06/30/03					
SMW	01/09/02	3,721.03	--	49.35	3,671.68	--
	10/04/02		--	49.50	3,671.53	--
	11/11/02		--	49.69	3,671.34	--
	12/11/02	3,721.03	--			
	02/20/03	3,721.03	--			
	03/26/03					
	04/08/03					
	04/23/03					
	04/24/03					
	04/25/03					
	05/03/03					
	05/06/03					
	06/09/03					
	06/30/03					
NWW	01/09/02	3,723.13	--	51.26	3,671.87	--
	10/04/02		--			
	11/11/02		--			

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Kimbrough Sweet - Ref #2000-10757

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
NWW (cont.)	12/11/02	3,723.13	--	51.43	3,671.70	--
	02/20/03	3,723.13	--	51.62	3,671.51	--
	03/26/03					
	04/08/03					
	04/23/03					
	04/24/03					
	04/25/03					
	05/03/03					
	05/06/03					
	06/09/03					
	06/30/03					

* Corrected Groundwater Elevation = Top of Casing Elevation - (Depth to Water Below Top of Casing - (SG)(PSH Thickness)).

-- = Not Detected

If the cell is blank, the well was not gauged.

TABLE 2

Summary of Groundwater Analytical Results

Kimbrough Sweet - Ref #2000-10757

Monitor Well Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	Total Xylenes (µg/L)	Chloride (mg/L)	Total Dissolved Solids (mg/L)	Total TPH (mg/L)
SMW	24-Jan-02	<1	<1	<1	<1	<1	<2			
	1-Mar-02	<1	<1	<1	<1	<1	<2			
	4-Oct-02	<1	<1	<1	<1	<1	<2			
	11-Dec-02	<1	<1	<1	<1	<1	<2			
	20-Feb-03	<1	<1	<1	<1	<1	<2			
EMW	24-Jan-02	<1	<1	<1	<1	<1	<2	14.2	316	
	1-Mar-02	<1	<1	<1	<1	<1	<2			
	4-Oct-02	<1	<1	<1	<1	<1	<2			
	11-Dec-02	<1	<1	<1	<1	<1	<2			
	20-Feb-03	<1	<1	<1	<1	<1	<2			
NWMW	24-Jan-02	<1	<1	<1	<1	<1	<2	31	6,130	
	1-Mar-02	<1	<1	<1	<1	<1	<2			
	4-Oct-02	<1	<1	<1	<1	<1	<2			
	11-Dec-02	<1	<1	<1	<1	<1	<2			
	20-Feb-03	<1	<1	<1	<1	<1	<2			
CMW	24-Jan-02	Not sampled due to the presence of phase separated hydrocarbons								
	1-Mar-02	Not sampled due to the presence of phase separated hydrocarbons								
	4-Oct-02	Not sampled due to the presence of phase separated hydrocarbons								
	11-Dec-02	Not sampled due to the presence of phase separated hydrocarbons								
	20-Feb-03	Not sampled due to the presence of phase separated hydrocarbons								
NMOCD Remedial Thresholds		10	750	750			620	250	1,000	

Bolded values are in excess of the NMOCD Remediation Thresholds or Other Standards for Domestic Water Supply.

If cell is blank, then the parameter was not analyzed

NS : Not Sampled

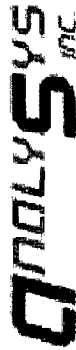
APPENDICES

APPENDIX A

GROUNDWATER ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY FORMS



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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Euinee

NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 139823 **Report Date:** 03/03/03

Project ID: 2000-10757

Sample Name: WEKS22003NNWMW

Sample Matrix: water

Date Received: 02/26/2003 **Time:** 14:15

Date Sampled: 02/20/2003 **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	---		---		02/28/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/03	8260b	---	2	71.1	87.5	70
Ethylbenzene	<1	µg/L	1	<1	02/28/03	8260b	---	2.8	98.6	101.9	107.5
m,p-Xylenes	<1	µg/L	1	<1	02/28/03	8260b	---	2.1	101.1	102.6	111.1
o-Xylene	<1	µg/L	1	<1	02/28/03	8260b	---	1.2	108.5	101.7	109
Toluene	<1	µg/L	1	<1	02/28/03	8260b	---	1	93.6	84.3	85.5

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 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 = 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.



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

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10757

Sample Name: WEKS22003NWMW

Report#/Lab ID#: 139823

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	98.9	80-120	---
Toluene-d8	8260b	110	88-110	---

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 Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Eunice

NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 139824 **Report Date:** 03/03/03

Project ID: 2000-10757

Sample Name: WEKS22003EMW

Sample Matrix: water

Date Received: 02/26/2003 **Time:** 14:15

Date Sampled: 02/20/2003 **Time:** 12:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1											
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/28/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/03	8260b	---	2	71.1	87.5	70
Ethylbenzene	<1	µg/L	1	<1	02/28/03	8260b	---	2.8	98.6	101.9	107.5
m,p-Xylenes	<1	µg/L	1	<1	02/28/03	8260b	---	2.1	101.1	102.6	111.1
o-Xylene	<1	µg/L	1	<1	02/28/03	8260b	---	1.2	108.5	101.7	109
Toluene	<1	µg/L	1	<1	02/28/03	8260b	---	1	93.6	84.3	85.5

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 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.



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

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10757

Sample Name: WEKS22003EMW

Report#/Lab ID#: 139824

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	80-120	---
Toluene-d8	8260b	106	88-110	---

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



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Euinee

NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 139825 **Report Date:** 03/03/03

Project ID: 2000-10757

Sample Name: WEKS22003SMW

Sample Matrix: water

Date Received: 02/26/2003 **Time:** 14:15

Date Sampled: 02/20/2003 **Time:** 13:30

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	---		---		02/28/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/03	8260b	---	2	71.1	87.5	70
Ethylbenzene	<1	µg/L	1	<1	02/28/03	8260b	---	2.8	98.6	101.9	107.5
m,p-Xylenes	<1	µg/L	1	<1	02/28/03	8260b	---	2.1	101.1	102.6	111.1
o-Xylene	<1	µg/L	1	<1	02/28/03	8260b	---	1.2	108.5	101.7	109
Toluene	<1	µg/L	1	<1	02/28/03	8260b	---	1	93.6	84.3	85.5

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10757

Sample Name: WEKS22003SMW

Report#/Lab ID#: 139825

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.4	80-120	---
Toluene-d8	8260b	107	88-110	---

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

MAIN-UP-CLOUDY

Reports To:

pany Name Environmental Plus
 Address 2100 Ave C

Envelope State/AA Zip 88231
N: Pat McCasland

1E 505-394-2881 Fax 505-394-2601

1 Status (must be confirmed with lab mgr.):

Project Name/PO#: 2000-10757 Sampler: Fred M. S. B.

Bill to (if different):

Company Name 5017 Emap4
Address 5805 Hwy 80

City Midland State TX Zip 79701
ATTN: Frank Hernandez

Phone 915-638-3797 Fax

Franklin D. Roosevelt

Analyses Requested (1)

Please attach explanatory information as required.

[illegible]

ess 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 (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 list at ASI's option. Specific compound lists must be supplied for all GC procedures.

$$T = 4.86^\circ\text{C}$$

Sample Relinquished By			Sample Received By		
Name	Affiliation	Date	Name	Affiliation	Date
Debra Ellis			Malcolm Humpalany	ASU	2/26/03 14:15

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



ANNUAL MONITORING REPORT

KIMBROUGH SWEET
LINK REF: 2000-10757

AP-29

SW¼ OF THE NE¼ OF SECTION 3, TOWNSHIP 18 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

~7.25 MILES NORTHWEST (302°) OF
HOBBS, LEA COUNTY, NEW MEXICO

LATITUDE: N32° 46' 48"

LONGITUDE: W103° 14' 18"

MARCH 31, 2004

PREPARED BY:

Environmental Plus, Inc.

2100 Avenue O

P.O. Box 1558

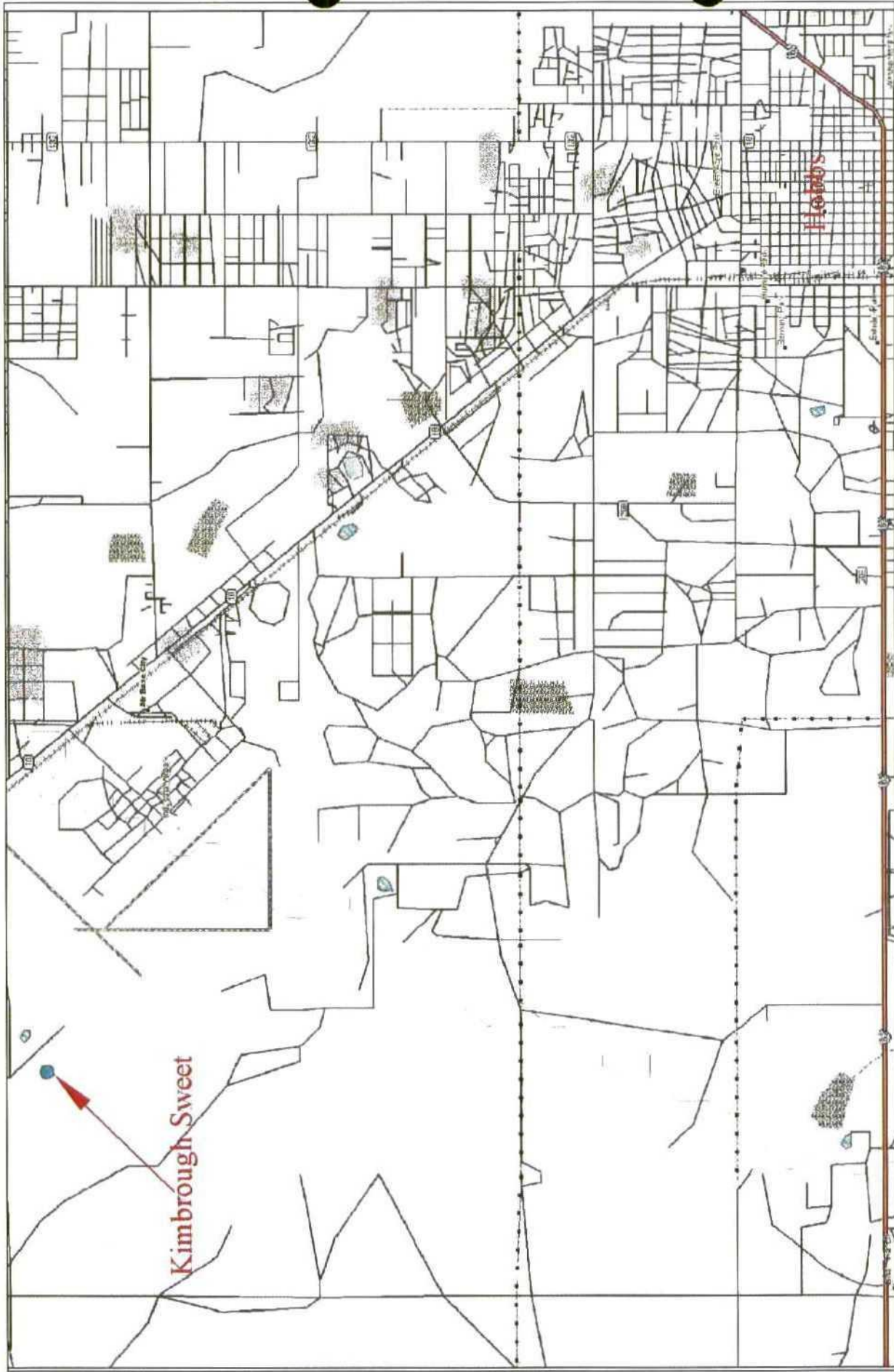
Eunice, NM 88231

Phone: (505)394-3481

FAX: (505)394-2601



FIGURES



	REVISED:	DWG By: Iain Olness March 2004	Figure 1 Area Map Link Energy, LLC Kimbrough Sweet
SHEET 1 of 1	9,900	4,950 0 Feet	Lea County, New Mexico SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E N 32° 46' 48.0" W 103° 14' 18.0" Elevation: 3,727 feet amsl

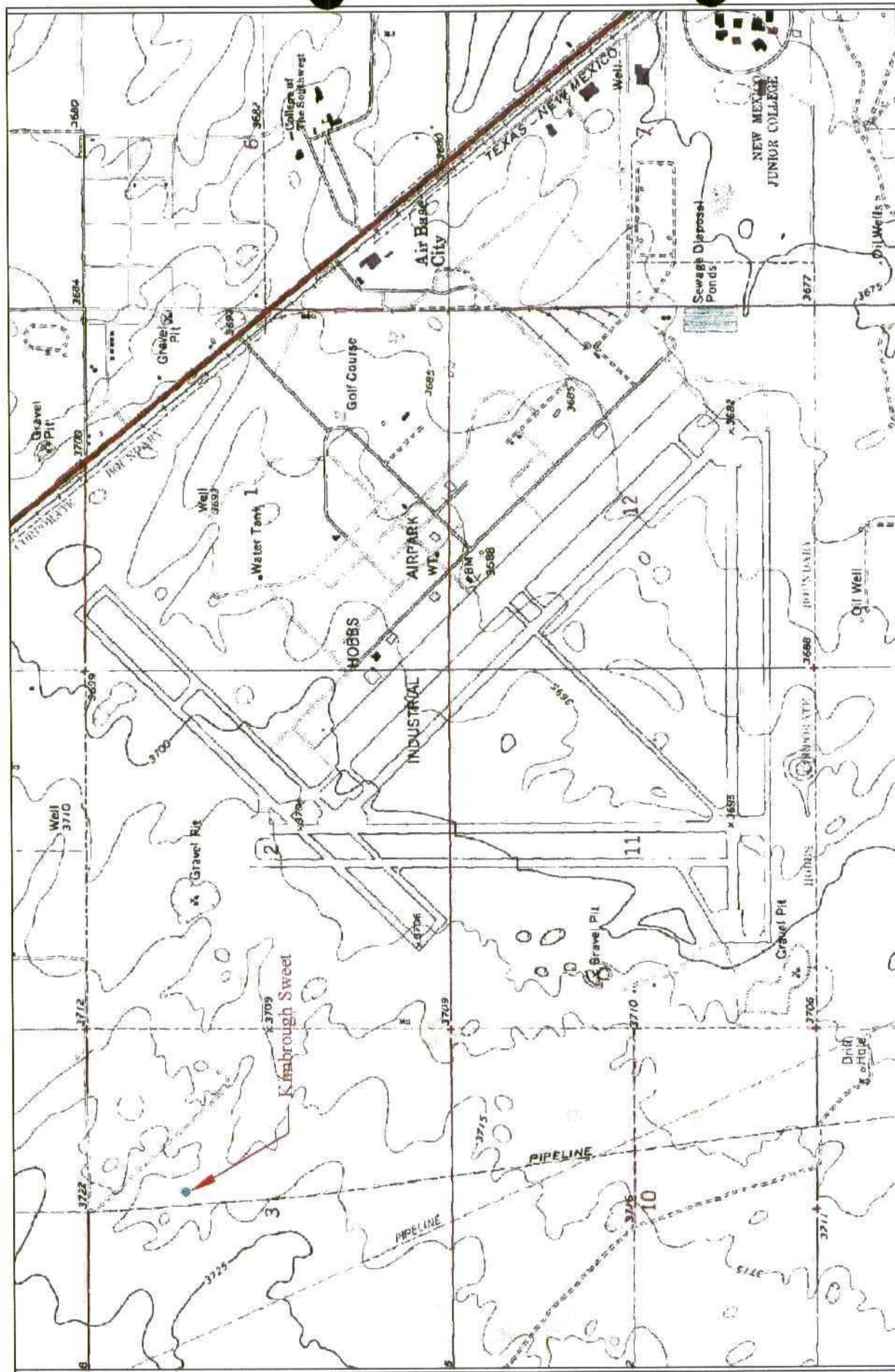
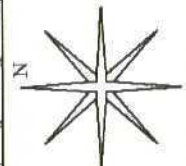


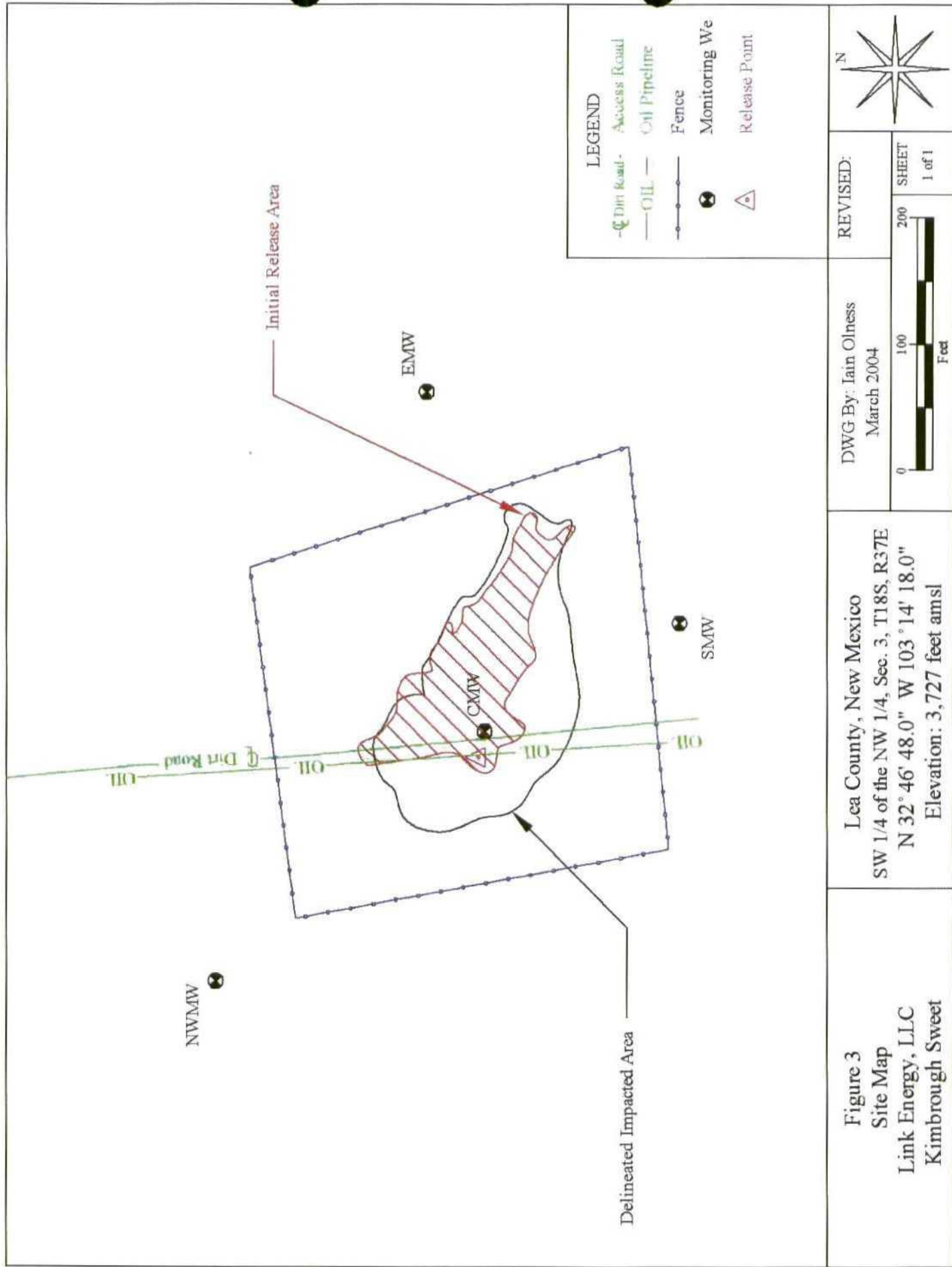
Figure 2
 Site Location Map
 Link Energy, LLC
 Kimbrough Sweet

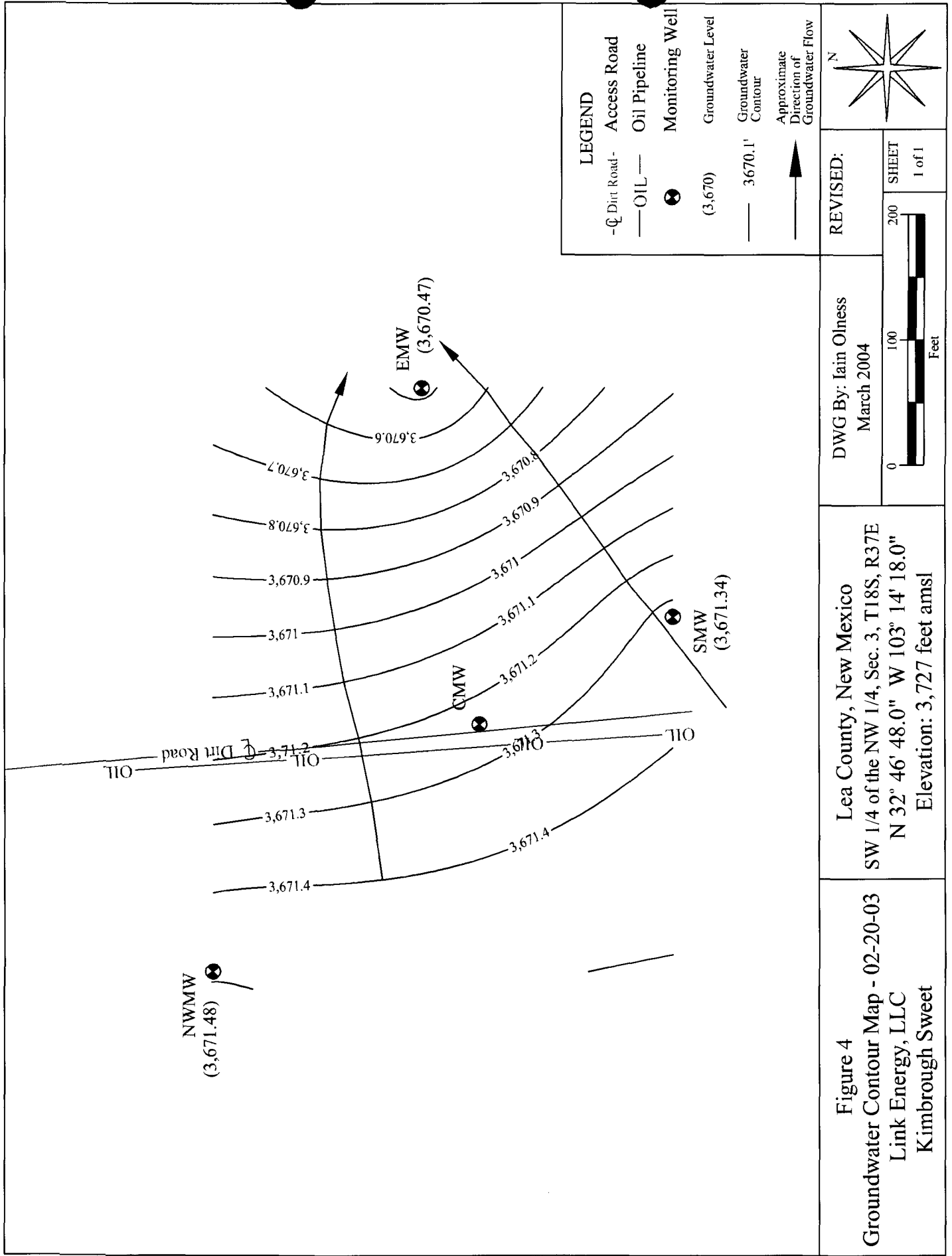
Lea County, New Mexico
 SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E
 N 32° 46' 48.0" W 103° 14' 18.0"
 Elevation: 3,727 feet amsl

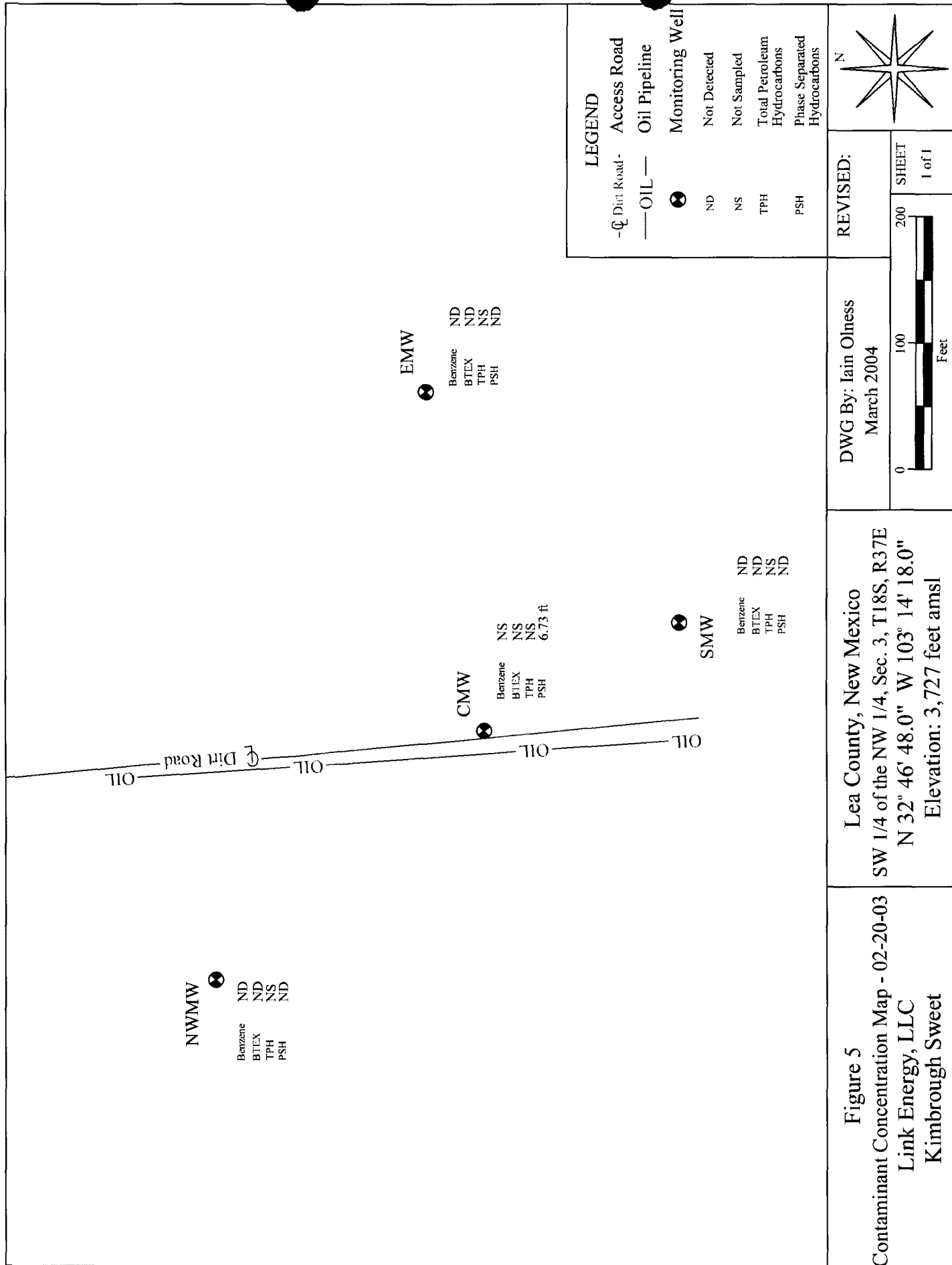
DWG By: Iain Olness
 March 2004

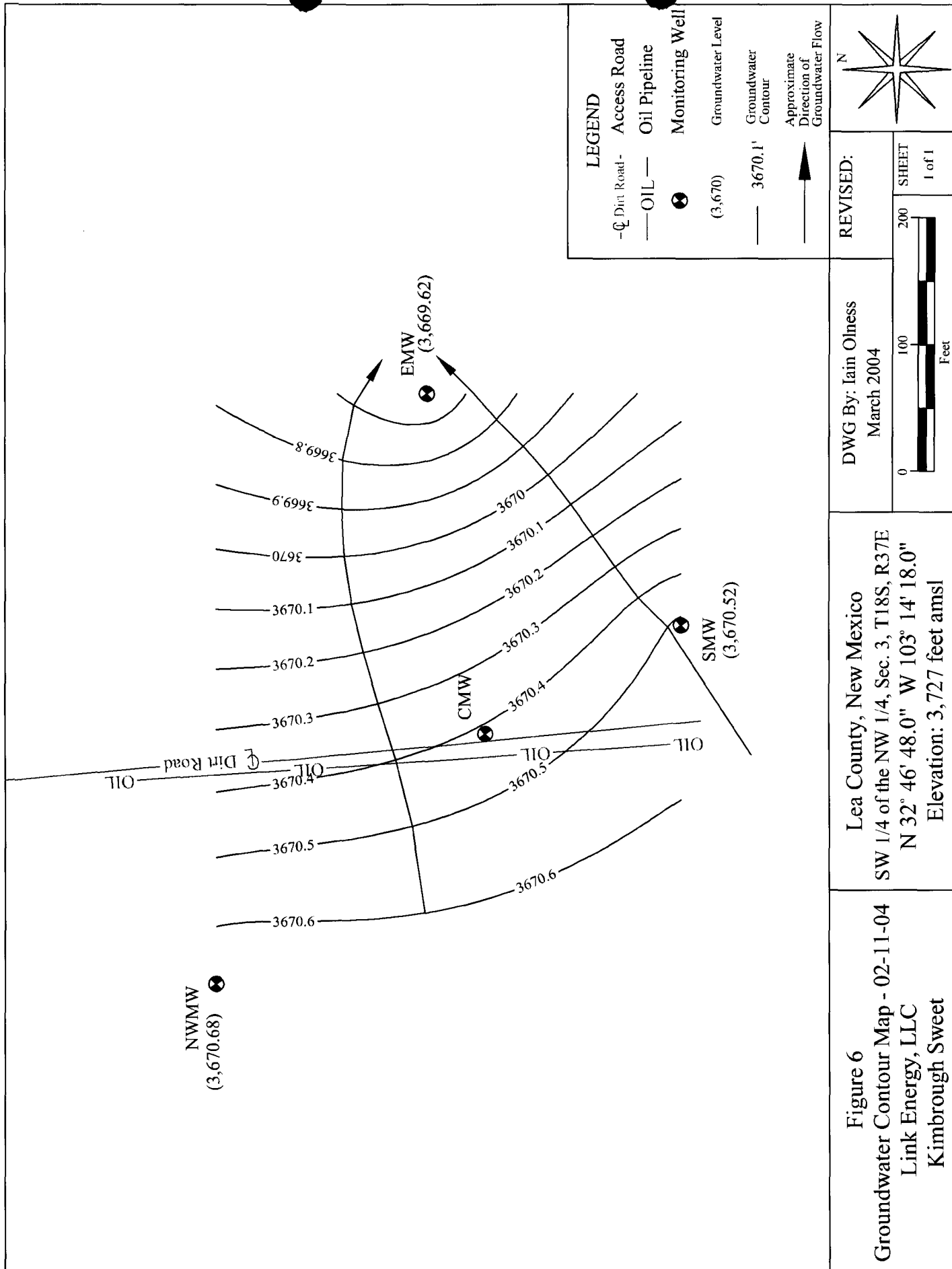
REVISED:

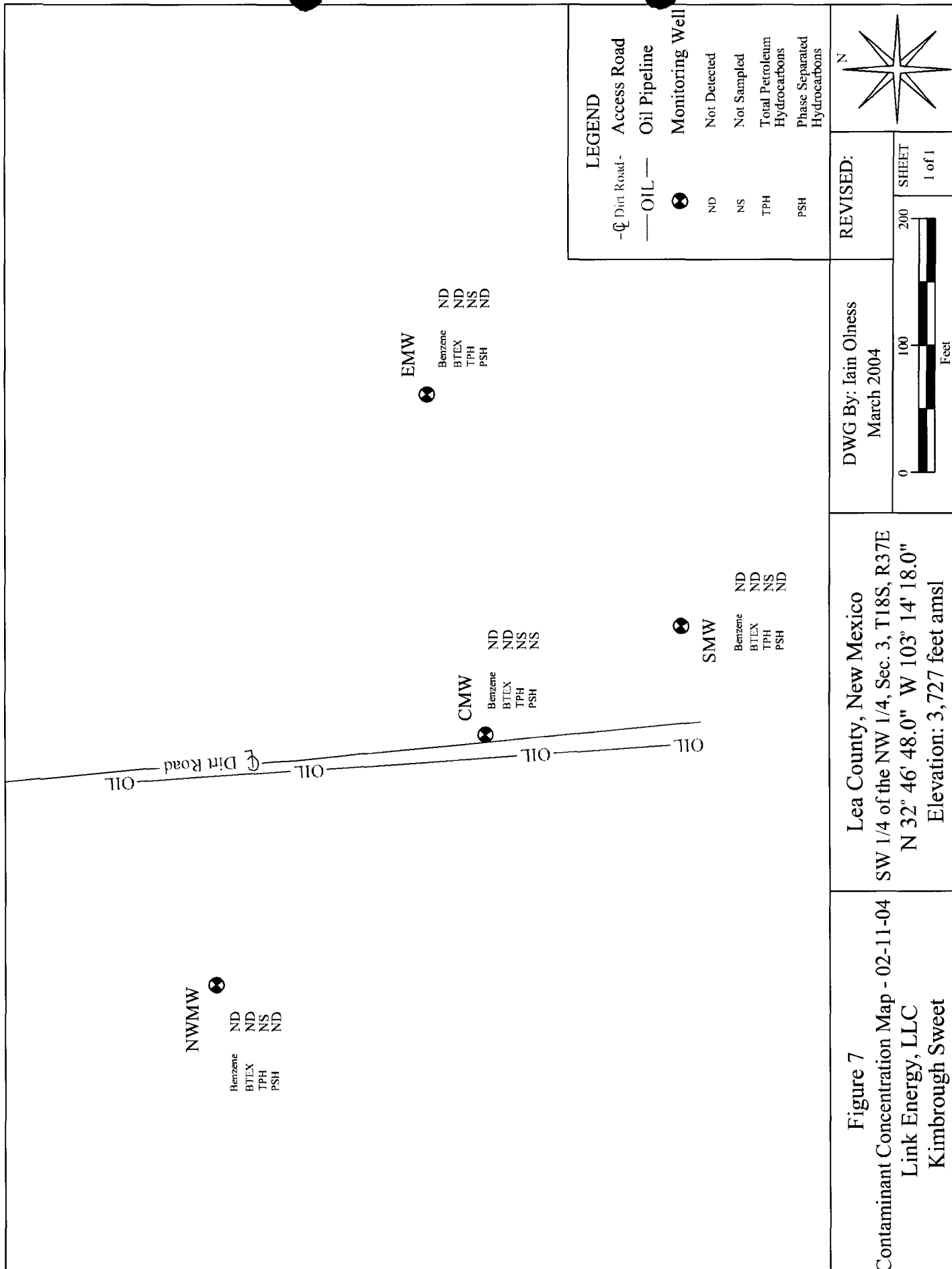












TABLES

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Kimbrough Sweet - Ref #2000-10757

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
CMW	01/09/02	Not Surveyed	49.20	53.60	Not Surveyed	4.40
	10/04/02		49.21	56.33		7.12
	11/11/02		49.25	56.30		7.05
	12/11/02		49.25	56.34		7.09
	02/20/03		49.57	56.30		6.73
	03/26/03		49.66	58.09		8.43
	04/08/03		49.68	58.11		8.43
	04/23/03		50.00	56.90		6.90
	04/24/03		49.75	58.10		8.35
	04/25/03		49.78	57.95		8.17
	05/03/03		49.77	58.10		8.33
	05/06/03		49.75	58.08		8.33
	06/09/03		49.83	58.13		8.30
	06/30/03		49.95	58.04		8.09
	02/11/04					
EMW	01/09/02	3,720.60	--	49.77	3,670.83	--
	10/04/02		--			
	11/11/02		--	49.93	3,670.67	--
	12/11/02		--			
	02/20/03		--	50.13	3,670.47	--
	03/26/03					
	04/08/03					
	04/23/03					
	04/24/03					
	04/25/03					
	05/03/03					
	05/06/03					
	06/09/03					
	06/30/03					
	02/11/04		--	50.98	3,669.62	--
SMW	01/09/02	3,721.03	--	49.35	3,671.68	--
	10/04/02		--			
	11/11/02		--	49.50	3,671.53	--
	12/11/02		--			
	02/20/03		--	49.69	3,671.34	--
	03/26/03					
	04/08/03					
	04/23/03					
	04/24/03					
	04/25/03					
	05/03/03					
	05/06/03					
	06/09/03					
	06/30/03					
	02/11/04		--	50.51	3,670.52	--

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Kimbrough Sweet - Ref #2000-10757

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
NWW	01/09/02					
	10/04/02	3,723.13	--	51.26	3,671.87	--
	11/11/02					
	12/11/02	3,723.13	--	51.43	3,671.70	--
	02/20/03	3,723.13	--	51.62	3,671.51	--
	03/26/03					
	04/08/03					
	04/23/03					
	04/24/03					
	04/25/03					
	05/03/03					
	05/06/03					
	06/09/03					
	06/30/03					
	02/11/04	3,723.13	--	52.45	3,670.68	--

* Corrected Groundwater Elevation = Top of Casing Elevation - (Depth to Water Below Top of Casing - (SG)(PSH Thickness)).

-- = Not Detected

If the cell is blank, the well was not gauged.

TABLE 2

Summary of Groundwater Analytical Results

Kimbrough Sweet - Ref #2000-10757

Monitor Well Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	Total Xylenes (µg/L)	Chloride (mg/L)	Total Dissolved Solids (mg/L)	Total TPH (mg/L)
SMW	24-Jan-02	<1	<1	<1	<1	<1	<2			
	1-Mar-02	<1	<1	<1	<1	<1	<2			
	4-Oct-02	<1	<1	<1	<1	<1	<2			
	11-Dec-02	<1	<1	<1	<1	<1	<2			
	20-Feb-03	<1	<1	<1	<1	<1	<2			
	11-Feb-04	<1	<1	<1	<2	<1	<3			
EMW	24-Jan-02	<1	<1	<1	<1	<1	<2	14.2	316	
	1-Mar-02	<1	<1	<1	<1	<1	<2			
	4-Oct-02	<1	<1	<1	<1	<1	<2			
	11-Dec-02	<1	<1	<1	<1	<1	<2			
	20-Feb-03	<1	<1	<1	<1	<1	<2			
	11-Feb-04	<1	<1	<1	<2	<1	<3			
NWMW	24-Jan-02	<1	<1	<1	<1	<1	<2	31	6,130	
	1-Mar-02	<1	<1	<1	<1	<1	<2			
	4-Oct-02	<1	<1	<1	<1	<1	<2			
	11-Dec-02	<1	<1	<1	<1	<1	<2			
	20-Feb-03	<1	<1	<1	<1	<1	<2			
	11-Feb-04	<1	<1	<1	<2	<1	<3			
CMW	24-Jan-02	Not sampled due to the presence of phase separated hydrocarbons								
	1-Mar-02	Not sampled due to the presence of phase separated hydrocarbons								
	4-Oct-02	Not sampled due to the presence of phase separated hydrocarbons								
	11-Dec-02	Not sampled due to the presence of phase separated hydrocarbons								
	20-Feb-03	Not sampled due to the presence of phase separated hydrocarbons								
	11-Feb-04	Not sampled due to the presence of phase separated hydrocarbons								
NMOCD Remedial Thresholds		10	750	750			620	250	1,000	

Bolded values are in excess of the NMOCD Remediation Thresholds or Other Standards for Domestic Water Supply.

If cell is blank, then the parameter was not analyzed

NS : Not Sampled

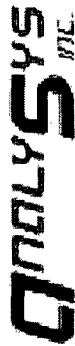
APPENDICES

APPENDIX A

GROUNDWATER ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY FORMS



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Address: 2100 Ave. O

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NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 153084 **Report Date:** 02/25/04

Project ID: 2000-10757

Sample Name: WLEKS21104NWMW

Sample Matrix: water

Date Received: 02/20/2004 **Time:** 09:30

Date Sampled: 02/11/2004 **Time:** 13:00

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	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene:	<1	µg/L	1	<1	02/24/04	8260b	---	2	102	103.9	103
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	4.6	103.5	110.5	104.5
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	---	4.1	105.7	111.7	105.8
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	---	4.1	104.7	110.6	106.1
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	0.2	106.5	109.9	110.5

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Attn: Pat McCasland

Project ID: 2000-10757

Sample Name: WLEKS21104NWMW

Report#/Lab ID#: 153084

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	101	74-124	---
Toluene-d8	8260b	108	89-115	---

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



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Address: 2100 Ave. O

Eunice

NM 88231

Phone: (505) 394-3481

FAX: (505) 394-2601

Report#/Lab ID#: 153085

Report Date: 02/25/04

Project ID: 2000-10757

Sample Name: WLEKS21104SWM

Sample Matrix: water

Date Received: 02/20/2004

Time: 09:30

Date Sampled: 02/11/2004

Time: 14:00

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	—		—		02/24/04	8260b(5030/5035)	—	—	—	—	—
Benzene	<1	µg/L	1	<1	02/24/04	8260b	—	2	102	103.9	103
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	—	4.6	103.5	110.5	104.5
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	—	4.1	105.7	111.7	105.8
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	—	4.1	104.7	110.6	106.1
Toluene	<1	µg/L	1	<1	02/24/04	8260b	—	0.2	106.5	109.9	110.5

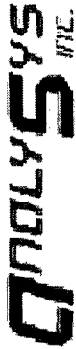
QUALITY ASSURANCE DATA¹

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10757

Sample Name: WLEKS21104SWM

Report#/Lab ID#: 153085

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	108	74-124	---
Toluene-d8	8260b	108	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 Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Eunice

NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 153086 **Report Date:** 02/25/04

Project ID: 2000-10757

Sample Name: WLEKS21104EMW

Sample Matrix: water

Date Received: 02/20/2004 **Time:** 09:30

Date Sampled: 02/11/2004 **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	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/24/04	8260b	---	2	102	103.9	103
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	4.6	103.5	110.5	104.5
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	---	4.1	105.7	111.7	105.8
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	---	4.1	104.7	110.6	106.1
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	0.2	106.5	109.9	110.5

QUALITY ASSURANCE DATA¹

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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 Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10757

Sample Name: WLEKS21104EMW

Report#/Lab ID#: 153086
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	108	89-115	---

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

SHAW INC.

Bill to (if different)

Company Name Link Energy
Address 5005 Hwy 50

City Midland State Tx Zip 79701
ATTN: Ernest Hernandez

Phone 505-341-3095 Fax 505-346-2713

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: 2002-10758 Sampler: Bradley B. B.

Analyses Requested (1)

Please attach explanatory information as required

[illegible]

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

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Buddhist	Swanwood Mt			William Langley	ASL	2/20/04	0930

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