1R - 401

REPORTS

DATE:

3/16/2004

Remediacon Incorporated
Geological and Engineering Services
mstewart@remediacon.com

PO Box 302, Evergreen, Colorado 80437
Telephone: 303.674.4370
Facsimile: 720.528.8132

March 16, 2004

Mr Stephen Weathers
Duke Energy Field Services, LP
370 17th Street, Suite 2500
Denver, CO 80202

Re: Summary of January 2004 Quarterly Groundwater Monitoring Results at the C-Line 50602 Location in Lea County New Mexico
(Unit O, Section 31, Township 19 South, Range 37 East) 1R-401

Dear Mr. Weathers:

This report summarizes the groundwater monitoring activities completed at the C-Line 50602 Site for Duke Energy Field Services, LP (DEFS) in January 2004.

The C-Line 50602 site is located in the southwestern quarter of the southeastern quarter (Unit O) of Section 31, Township 19 South, Range 37 East. The approximate coordinates are 32 degrees 32.5 minutes north, 103 degrees 15.3 minutes east (Figure 1). The site is approximately 6.25 miles south and 1.25 miles west of the town of Monument in Lea County New Mexico. The area surrounding the release sites is uninhabited and is used for ranching. At least five pipelines traverse the study area (Figure 2). DEFS owns two of these pipelines. Rice, Dynegy and SRG own the remaining pipelines.

There is one free product removal well and eight monitoring wells at the site (Figure 2). Well MW-1 is used to remove mobile free-phase hydrocarbons from the water table with an active product-recovery system. Wells MW-2 through MW-9 were installed to characterize the distribution of dissolved-phase hydrocarbons in the groundwater. They now comprise the groundwater monitoring network. Table 1 includes construction information for each well.

Groundwater samples were collected on January 29, 2004. The depth to water in each well was measured prior to the sampling activities. Well MW-1 contained free product so it was not sampled. The remaining eight wells were purged and sampled using the standard protocols for this site.

The calculated groundwater elevations for the January 2004 and the historic monitoring episodes are summarized in Table 2. The groundwater elevation values for well MW-1 were corrected using the following formula (all values in feet):

GWE_{corr} = MGWE + (PT*PD): where

MGWE is the actual measured groundwater elevation;
PT is the measured free-phase hydrocarbon thickness, and
PD is the free phase hydrocarbon density (assumed 0.7).

Each well (excepting MW-1) was purged using a disposable bailer until a minimum of three casing volumes of water was removed and the field parameters temperature, pH and conductivity stabilized. The well purging forms are attached. The purge water was disposed of at the DEFS Linam Ranch facility.

The samples were then collected using the disposable bailers. All samples were placed in an ice-filled chest immediately upon collection and delivered to the analytical laboratory (Environmental Labs of Texas) using standard chain-of-custody protocol. The unfiltered samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX).

A field duplicate was collected from MW-4 to evaluate quality control. The field duplicate and a trip blank were both analyzed for BTEX.

The laboratory analyses are summarized in Table 3 for the historic and recent sampling episodes. The laboratory report for the January 2004 sampling episode is attached.

An automatic free product collection system was installed in replacement well MW-1 in mid-November 2003. The system became operational on November 26, 2003. A local DEFS subcontractor monitors system operation and product recovery on a weekly basis. Approximately 600 gallons of free phase hydrocarbons had been removed as of March 1, 2004.

Figure 3 shows the January 2004 calculated groundwater contours as generated using the Surfer® program with the kriging option. Groundwater flow is toward the southeast at an average gradient of 0.0042 feet per foot. Both the flow direction and gradient correspond to the October 2003 measurements.

Figure 4 includes hydrographs for wells MW-1 to MW-6. The water table remained constant between October 2003 and January 2004.

Figure 5 depicts the January benzene distribution by well. The highest dissolved-phase benzene concentration was measured in well MW-3. The samples from other wells contained substantially less benzene. Well MW-2 is upgradient of the release point but its sample contained the BTEX constituents.

The change of benzene in the groundwater over time is plotted for wells MW-2, MW-4 and MW-5 on Figure 6 and for MW-3 on Figure 7. The benzene concentration in wells MW-2 and MW-5 have varied within a set range, and the changes may result from temporal influences. The benzene from well MW-4 has decline to the same approximate range as MW-2 and MW-5 after an initial spike. The benzene concentration in well MW-3 appears to be increasing even though it is not directly downgradient from the original release point at MW-1. Wells MW-7 and MW-9 did not contain measurable concentrations of BTEX. The concentrations in MW-8 approach the laboratory detection limit.

All of the data fell within the laboratory quality control standards as shown in the attached report. The BTEX constituents were not detected in the trip blank. There was poor agreement between toluene, ethylbenzene and xylenes in the original and duplicate samples for MW-4. The agreement for benzene between the two samples was better, and it is considered suitable for its intended use.

The next groundwater-monitoring event is scheduled for June 2004 so that it can be completed along with the other DEFS facilities in the area. Sampling will then continue on a quarterly basis until sufficient data is collected to evaluate plume stability.

Active free product removal will continue at the site until the majority of the mobile free phase hydrocarbons have been removed. Soil vapor extraction (SVE) will then be initiated in MW-1. The start of SVE may be accelerated if the groundwater plume appears to be expanding because of the DEFS release.

Thank you for allowing Remediacon to complete this work. Do not hesitate to contact me if you have any questions or comments on the contents of this letter.

Sincerely,
REMEDIACON INCORPORATED

Michael H. Stewart

Michael H. Stewart, P.E., C.P.G.
Principal Engineer

MHS/tbm

TABLES

Table 1 – Summary of Well Construction Information

Well	Top of Casing Elevation	Ground Elevation	Screen Diameter	Screened Interval	Sand Interval	Total Depth
MW-1	3,541.21	3,538.64	4"	82.5-97.5	81-98	98
MW-2	3,540.91	3,537.70	2"	81-101	77-102	102
MW-3	3,541.41	3,539.30	2"	80-100	78-103	103
MW-4	3,541.40	3,538.51	2"	80-100	78-103	103
MW-5	3,541.45	3,538.69	2"	80-100	78-102	102
MW-6	3,543.98	3,540.94	2"	79-99	75-102	102
MW-7	3,542.42	3,540.20	2"	82.5-97.5	77-98*	98
MW-8	3,540.29	3,538.08	2"	82.5-97.5	81-98	98
MW-9	3,539.62	3,537.33	2"	82.5-97.5	81-98	98

All units in feet except as noted

* Well MW-7 had a natural sand pack from 98 to 93 feet

Table 2 – Summary of Corrected Water Table Elevations

Well	Nov. 2002	Feb. 2003	Apr. 2003	Oct. 2003	Jan. 2004
MW-1	3,452.01	3,451.60	3,451.73	3,451.35	3,451.34
MW-2	3,452.11	3,451.97	3,451.96	3,451.87	3,451.84
MW-3	3,452.25	3,451.37	3,451.33	3,451.27	3,451.22
MW-4	3,451.56	3,451.32	3,451.21	3,451.25	3,451.19
MW-5	3,451.39	3,451.21	3,451.09	3,451.20	3,451.11
MW-6	3,448.77	3,448.51	3,448.38	3,448.46	3,448.37
MW-7	-----	-----	-----	3,450.76	3,450.72
MW-8	-----	-----	-----	3,450.35	3,450.22
MW-9	-----	-----	-----	3,450.21	3,450.03

Notes: All units in feet.
The Elevation for MW-1 was corrected using a product density of 0.7

Table 3 - Summary of Analytical Results

Benzene	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
11/15/2002	<0.001	0.017	0.114/0.100	<0.001	<0.001			
2/18/2003	0.29	2.52	1.12	0.328	0.001			
4/17/2003	0.18	3.18	0.782/0.773	0.128	0.002			
10/28/2003	0.018	5.01	0.077	0.164/0.198	<0.001	<0.001	<0.001	<0.001
1/29/2004	0.085	6.06	0.32/0.232	0.226	0.00382	<0.001	0.00139	<0.001

Toluene	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
11/15/2002	<0.001	0.005	0.039/0.036	<0.001	<0.001			
2/18/2003	0.014	0.634	0.436	0.056	<0.001			
4/17/2003	0.007	0.513	0.450/0.445	0.007	<0.001			
10/28/2003	0.001	0.275	0.029	0.048/0.06	<0.001	<0.001	<0.001	<0.001
1/29/2004	0.035	0.506	0.169/0.0647	0.064	0.00140	<0.001	0.00109	<0.001

Ethylbenzene	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
11/15/2002	<0.001	<0.001	0.002/0.002	<0.001	<0.001			
2/18/2003	0.001	0.021	0.022	0.004	<0.001			
4/17/2003	<0.001	0.028	0.029/0.029	<0.001	<0.001			
10/28/2003	<0.001	0.031	0.002	0.002/0.003	<0.001	<0.001	<0.001	<0.001
1/29/2004	0.0029	0.0679	0.0203/0.00391	0.00404	0.00133	<0.001	0.00112	<0.001

Xylenes	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
11/15/2002	<0.001	<0.001	0.003/0.003	<0.001	<0.001			
2/18/2003	0.001	0.064	0.032	0.004	<0.001			
4/17/2003	<0.001	0.1	0.055/0.054	<0.001	<0.001			
10/28/2003	<0.001	0.083	0.008	0.004/0.008	<0.001	<0.001	<0.001	<0.001
1/29/2004	0.0047	0.0849	0.053/0.00693	0.0074	0.00194	<0.001	0.00217	<0.001

All units mg/l
Duplicate samples separated by a slash "/"

FIGURES

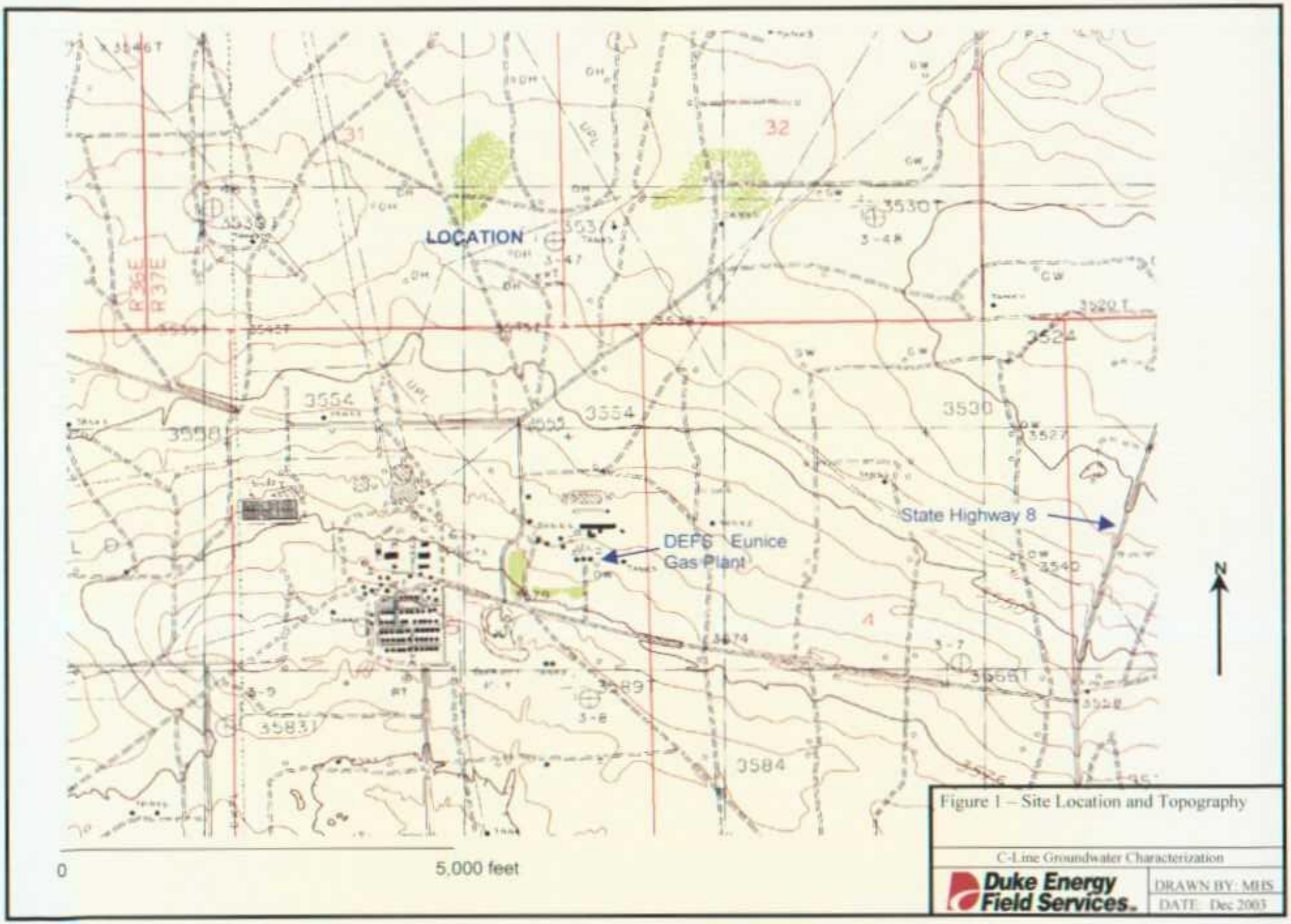

Figure 1 – Site Location and Topography

C-Line Groundwater Characterization

Duke Energy Field Services

DRAWN BY: MHS

DATE: Dec 2003

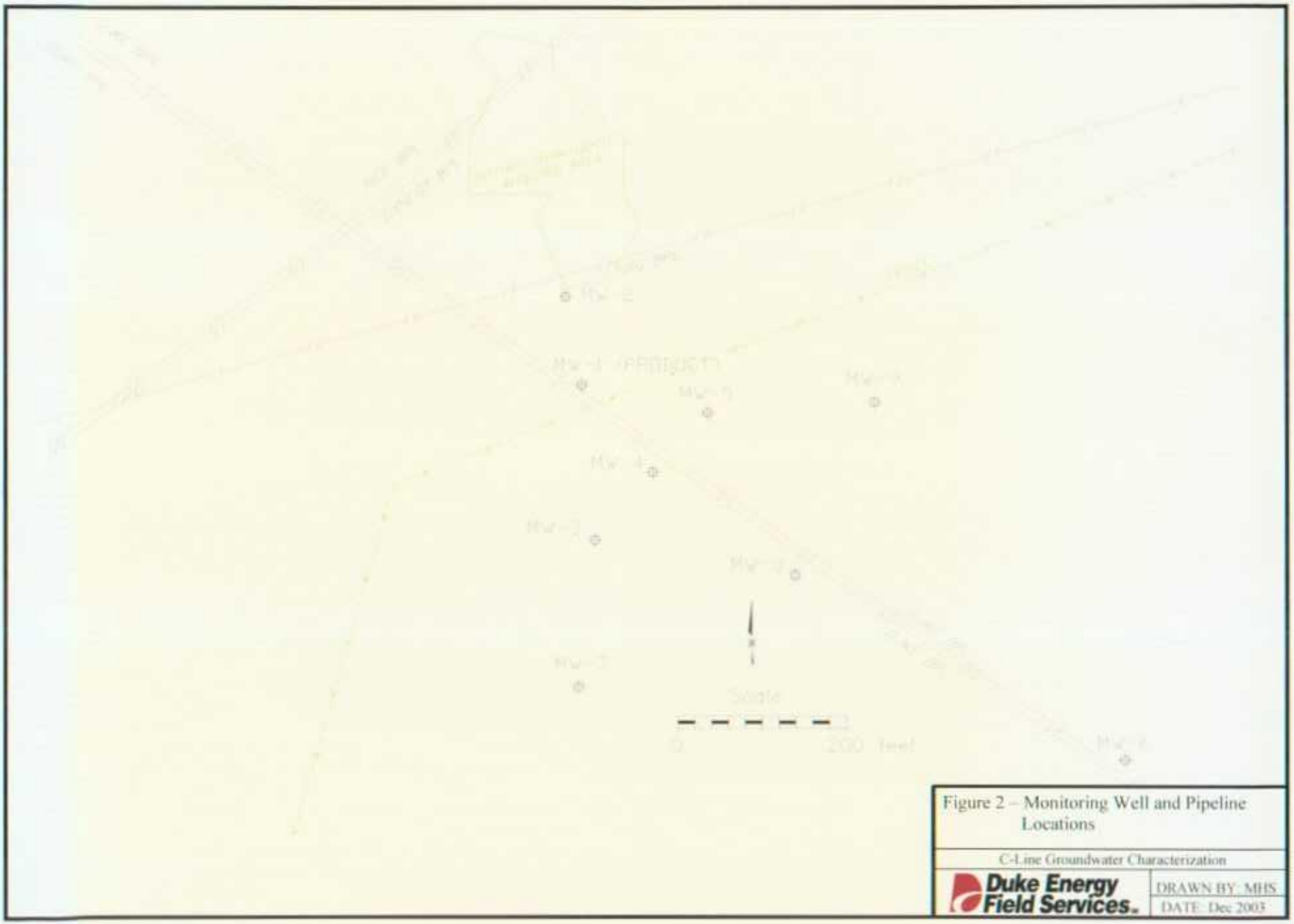

Figure 2 – Monitoring Well and Pipeline Locations

C-Line Groundwater Characterization

Duke Energy Field Services

DRAWN BY: MHS

DATE: Dec 2003

Figure 3 – January 2004 Water Table Elevations (feet)

C-Line Groundwater Characterization

Duke Energy Field Services

DRAWN BY: MHS

DATE: Mar 2004

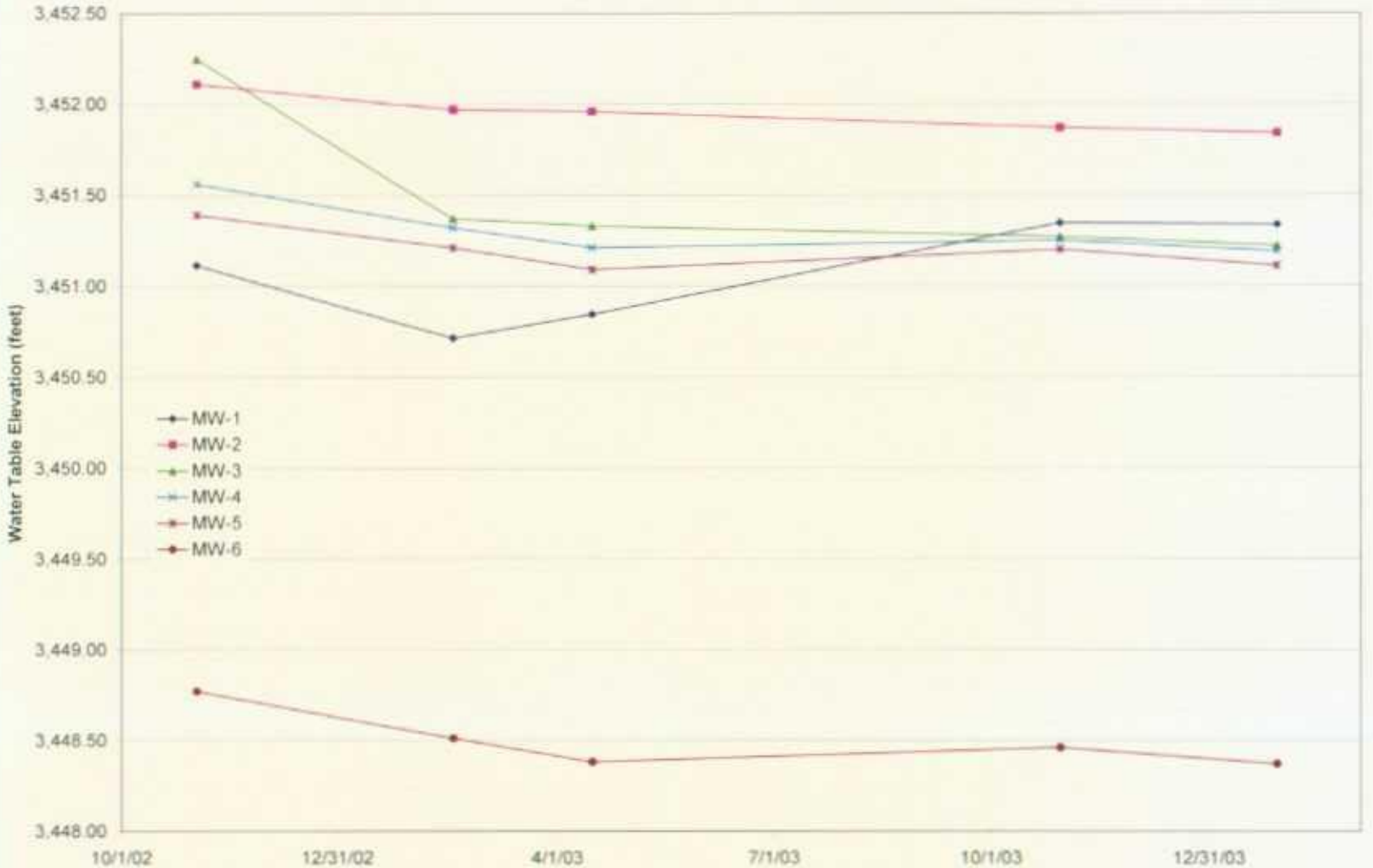

Figure 4 – Hydrograph for Wells MW-1 through MW-6

C-Line Groundwater Characterization

Duke Energy Field Services

DRAWN BY: MHS

DATE: Mar 2004

Notes: 1) All concentrations mg/l

Figure 5 – January 2004 Benzene Concentrations

C-Line Groundwater Characterization

Duke Energy Field Services

DRAWN BY: MHS

DATE: Mar 2004

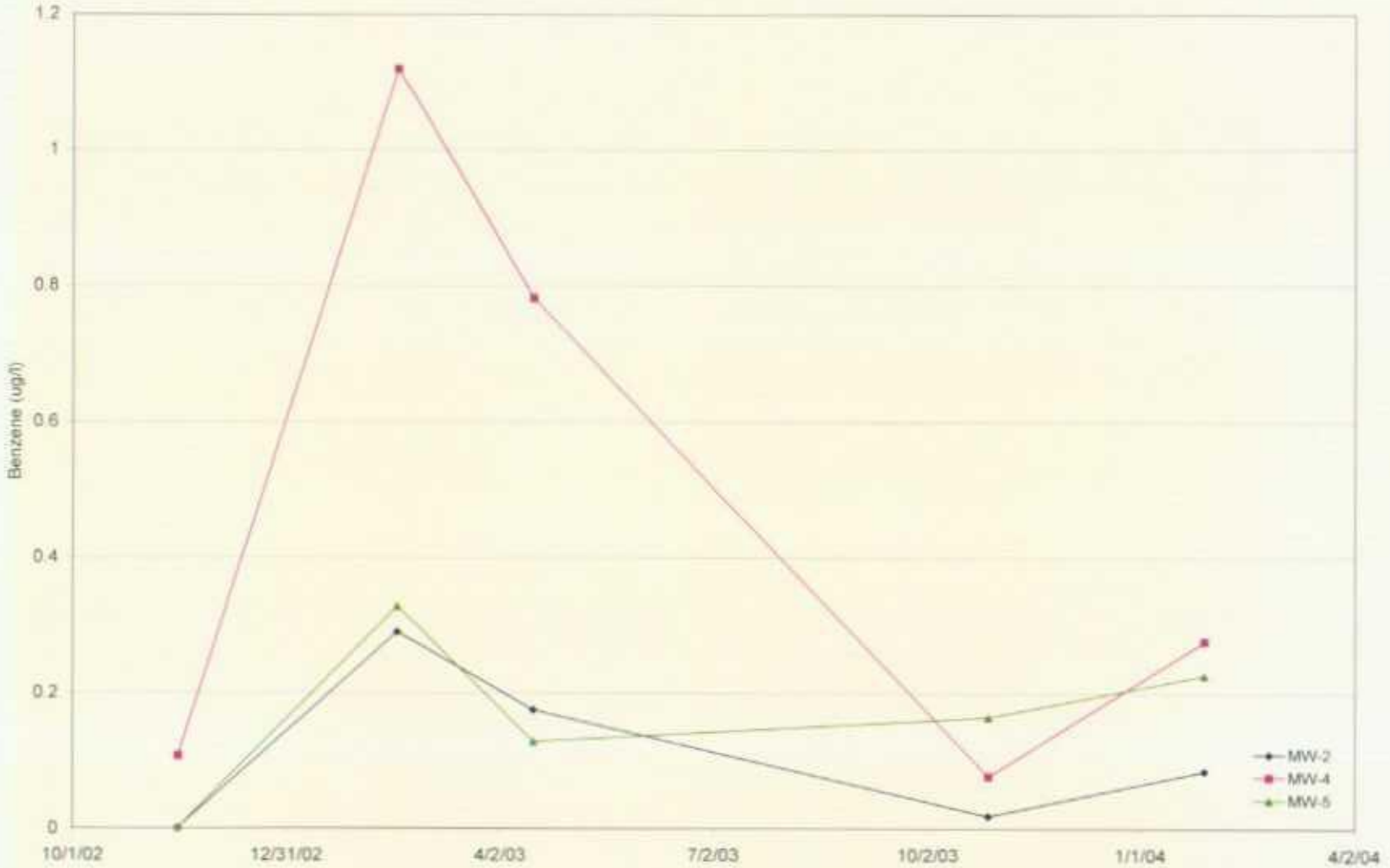

Figure 6 – Benzene Concentrations for Wells MW-2, MW-4 and MW-5

C-Line Groundwater Characterization

Duke Energy Field Services

DRAWN BY: MHS

DATE: Mar 2004

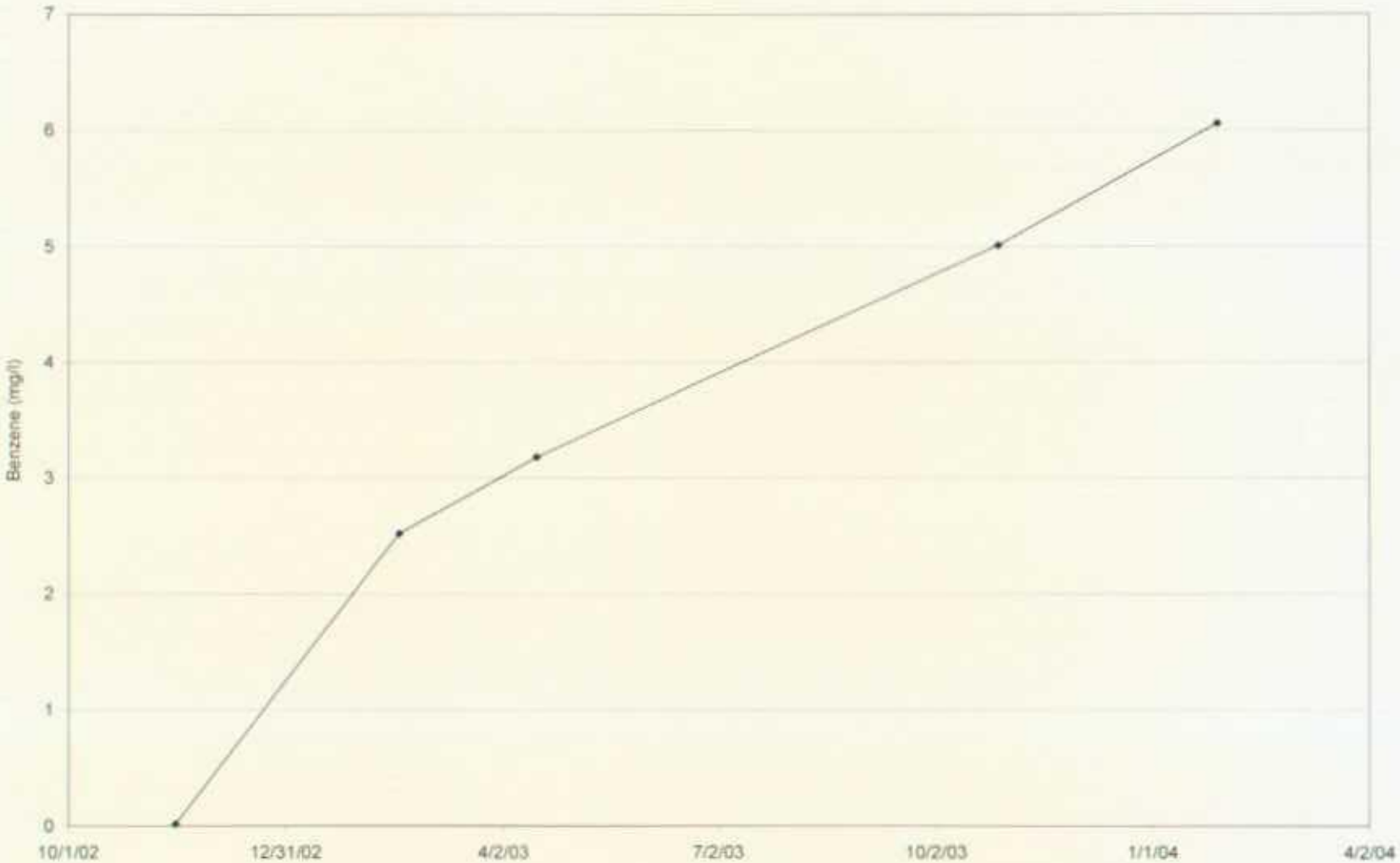

Figure 7 – Benzene Concentrations for Wells MW-3

C-Line Groundwater Characterization

Duke Energy Field Services

DRAWN BY: MHS

DATE: Mar 2004

ANALYTICAL LABORATORY REPORT

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Michael Stewart
REMEDIACON
P.O. Box 302
Evergreen, CO 80437

Project: DEFS C-Line
Project Number: None Given
Location: NW of Oil Center, NM

Lab Order Number: 4B02001

Report Date: 02/09/04

REMEDIACON	Project: DEFS C-Line	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	02/10/04 14:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0401291510 (MW-2)	4B02001-01	Water	01/29/04 15:10	02/01/04 07:10
0401291426 (MW-3)	4B02001-02	Water	01/29/04 14:26	02/01/04 07:10
0401291646 (MW-4)	4B02001-03	Water	01/29/04 14:46	02/01/04 07:10
0401291550 (MW-5)	4B02001-04	Water	01/29/04 15:50	02/01/04 07:10
0401291045 (MW-6)	4B02001-05	Water	01/29/04 10:45	02/01/04 07:10
0401291310 (MW-7)	4B02001-06	Water	01/29/04 13:10	02/01/04 07:10
0401291345 (MW-8)	4B02001-07	Water	01/29/04 13:45	02/01/04 07:10
0401291155 (MW-9)	4B02001-08	Water	01/29/04 11:55	02/01/04 07:10
0401292000 (Duplicate)	4B02001-09	Water	01/29/04 20:00	02/01/04 07:10
Trip Blank	4B02001-10	Water	01/29/04 00:00	02/01/04 07:10

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

REMEDIACON	Project: DEFS C-Line	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	02/10/04 14:12

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0401291510 (MW-2) (4B02001-01)									
Benzene	**0.0848**	0.00100	mg/L	1	EB40912	02/08/04	02/08/04	EPA 8021B	
Toluene	**0.0350**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00292**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00303**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00171**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.7 %*	*80-120*		"	"	"	"	
0401291426 (MW-3) (4B02001-02)									
Benzene	**6.06**	0.00500	mg/L	5	EB40912	02/08/04	02/08/04	EPA 8021B	
Toluene	**0.506**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.0679**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.0494**	0.00500	"	"	"	"	"	"	
Xylene (o)	**0.0355**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*115 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.7 %*	*80-120*		"	"	"	"	
0401291646 (MW-4) (4B02001-03)									
Benzene	**0.320**	0.00100	mg/L	1	EB40912	02/08/04	02/08/04	EPA 8021B	
Toluene	**0.169**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0203**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0372**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.0158**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*117 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.9 %*	*80-120*		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

REMEDIACON	Project: DEFS C-Line	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	02/09/04 14:15

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0401291550 (MW-5) (4B02001-04)		Water	Sampled: 01/29/04 15:50		Received: 02/01/04 07:10				
Benzene	**0.226**	0.00100	mg/L	1	EB40912	02/08/04	02/09/04	EPA 8021B	
Toluene	**0.0640**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00404**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00514**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00226**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*80-120*		"	"	"	"	
0401291045 (MW-6) (4B02001-05)		Water	Sampled: 01/29/04 10:45		Received: 02/01/04 07:10				
Benzene	**0.00382**	0.00100	mg/L	1	EB40912	02/08/04	02/09/04	EPA 8021B	
Toluene	**0.00140**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00133**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00194**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.3 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.7 %*	*80-120*		"	"	"	"	
0401291310 (MW-7) (4B02001-06)		Water	Sampled: 01/29/04 13:10		Received: 02/01/04 07:10				
Benzene	ND	0.00100	mg/L	1	EB40912	02/08/04	02/08/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.8 %*	*80-120*		"	"	"	"	

Roland K. Tuttle

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

REMEDIACON	Project: DEFS C-Line	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	02/09/04 14:15

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0401291345 (MW-8) (4B02001-07)	Water	Sampled: 01/29/04 13:45	Received: 02/01/04 07:10						
Benzene	**0.00139**	0.00100	mg/L	1	EB40912	02/08/04	02/09/04	EPA 8021B	
Toluene	**0.00109**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00112**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00217**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.3 %*	*80-120*		"	"	"	"	
0401291155 (MW-9) (4B02001-08)	Water	Sampled: 01/29/04 11:55	Received: 02/01/04 07:10						
Benzene	ND	0.00100	mg/L	1	EB40912	02/08/04	02/08/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
0401292000 (Duplicate) (4B02001-09)	Water	Sampled: 01/29/04 20:00	Received: 02/01/04 07:10						
Benzene	**0.232**	0.00100	mg/L	1	EB40912	02/08/04	02/08/04	EPA 8021B	
Toluene	**0.0647**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00391**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00483**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00210**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.3 %*	*80-120*		"	"	"	"	

REMEDIACON	Project: DEFS C-Line	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	02/09/04 14:15

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (4B02001-10)	Water	Sampled: 01/29/04 00:00	Received: 02/01/04 07:10						
Benzene	ND	0.00100	mg/L	1	EB40912	02/08/04	02/08/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.5 %*	*80-120*		"	"	"	"	

REMEDIACON	Project: DEFS C-Line	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	02/10/04 14:12

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0401291510 (MW-2) (4B02001-01)									
Chloride	461	5.00	mg/L	1	EB40304	02/03/04	02/03/04	EPA 325.3	
0401291426 (MW-3) (4B02001-02)									
Chloride	443	5.00	mg/L	1	EB40304	02/03/04	02/03/04	EPA 325.3	
0401291646 (MW-4) (4B02001-03)									
Chloride	470	5.00	mg/L	1	EB40304	02/03/04	02/03/04	EPA 325.3	
0401291550 (MW-5) (4B02001-04)									
Chloride	514	5.00	mg/L	1	EB40304	02/03/04	02/03/04	EPA 325.3	
0401291045 (MW-6) (4B02001-05)									
Chloride	620	5.00	mg/L	1	EB40304	02/03/04	02/03/04	EPA 325.3	
0401291310 (MW-7) (4B02001-06)									
Chloride	292	5.00	mg/L	1	EB40304	02/03/04	02/03/04	EPA 325.3	
0401291345 (MW-8) (4B02001-07)									
Chloride	354	5.00	mg/L	1	EB40304	02/03/04	02/03/04	EPA 325.3	
0401291155 (MW-9) (4B02001-08)									
Chloride	443	5.00	mg/L	1	EB40304	02/03/04	02/03/04	EPA 325.3	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Roland K Tuttle

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

REMEDIACON	Project: DEFS C-Line	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	02/09/04 14:15

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB40912 - EPA 5030C (GC)										
Blank (EB40912-BLK1)				Prepared & Analyzed: 02/08/04						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*90.1*		*ug/l*	*100*		*90.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*84.6*		*"*	*100*		*84.6*	*80-120*			
LCS (EB40912-BS1)				Prepared & Analyzed: 02/08/04						
Benzene	94.6		ug/l	100		94.6	80-120			
Toluene	94.0		"	100		94.0	80-120			
Ethylbenzene	105		"	100		105	80-120			
Xylene (p/m)	208		"	200		104	80-120			
Xylene (o)	105		"	100		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	*91.6*		*"*	*100*		*91.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*95.4*		*"*	*100*		*95.4*	*80-120*			
Calibration Check (EB40912-CCV1)				Prepared: 02/08/04 Analyzed: 02/09/04						
Benzene	91.3		ug/l	100		91.3	80-120			
Toluene	91.9		"	100		91.9	80-120			
Ethylbenzene	105		"	100		105	80-120			
Xylene (p/m)	211		"	200		106	80-120			
Xylene (o)	109		"	100		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*89.3*		*"*	*100*		*89.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*103*		*"*	*100*		*103*	*80-120*			
Matrix Spike (EB40912-MS1)	**Source: 4B02001-10**			Prepared & Analyzed: 02/08/04						
Benzene	93.9		ug/l	100	ND	93.9	80-120			
Toluene	92.5		"	100	ND	92.5	80-120			
Ethylbenzene	103		"	100	ND	103	80-120			
Xylene (p/m)	204		"	200	ND	102	80-120			
Xylene (o)	104		"	100	ND	104	80-120			
Surrogate: a,a,a-Trifluorotoluene	*93.0*		*"*	*100*		*93.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*101*		*"*	*100*		*101*	*80-120*			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

REMEDIACON	Project: DEFS C-Line	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	02/09/04 14:15

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB40912 - EPA 5030C (GC)										
Matrix Spike Dup (EB40912-MSD1)	**Source: 4B02001-10**			Prepared & Analyzed: 02/08/04						
Benzene	88.2		ug/l	100	ND	88.2	80-120	6.26	20	
Toluene	87.9		"	100	ND	87.9	80-120	5.10	20	
Ethylbenzene	98.6		"	100	ND	98.6	80-120	4.37	20	
Xylene (p/m)	196		"	200	ND	98.0	80-120	4.00	20	
Xylene (o)	99.8		"	100	ND	99.8	80-120	4.12	20	
Surrogate: a,a,a-Trifluorotoluene	*88.1*		"	*100*		*88.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*95.3*		"	*100*		*95.3*	*80-120*			

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

REMEDIACON	Project: DEFS C-Line	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	02/09/04 14:15

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB40304 - General Preparation (WetChem)										
Blank (EB40304-BLK1)				Prepared & Analyzed: 02/03/04						
Chloride	ND	5.00	mg/L							
Calibration Check (EB40304-CCV1)				Prepared & Analyzed: 02/03/04						
Chloride	4870		mg/L	5000		97.4	80-120			
Matrix Spike (EB40304-MS1)	**Source: 4B02001-01**			Prepared & Analyzed: 02/03/04						
Chloride	975		mg/L	500	461	103	80-120			
Matrix Spike Dup (EB40304-MSD1)	**Source: 4B02001-01**			Prepared & Analyzed: 02/03/04						
Chloride	966		mg/L	500	461	101	80-120	0.927	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

REMEDIACON	Project: DEFS C-Line	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	02/09/04 14:15

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Mike Stewart
Company Name: Remediacon
Company Address: PO Box 302
City/State/Zip: Evergreen CO 80437
Telephone No: 303-674-4370
Sampler Signature: Gilbert Van Deventer

Project Name: DEFS C-Line
Project #:
Project Loc: NW of Oil Center, NM
PO #:
Fax No: 720-528-8132 (Mike Stewart) and 303-389-1957 (Steve Weathers)

4802001

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers (2-40 ml glass, 1-250 ml plastic)	Preservative: Ice	HNO_3	HCl (BTEX only)	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B 5030 or BTEX 8260	RCI	N.O.R.M.	Chloride	RUSH TAT (Pre-Schedule)	Standard TAT
-01	0401291510 (MW-2)	01-29-04	1510	3	✓		✓					✓											✓			✓		✓
-02	0401291426 (MW-3)	01-29-04	1426	3	✓		✓					✓											✓			✓		✓
-03	0401291646 (MW-4)	01-29-04	1646	3	✓		✓					✓											✓			✓		✓
-04	0401291550 (MW-5)	01-29-04	1550	3	✓		✓					✓											✓			✓		✓
-05	0401291045 (MW-6)	01-29-04	1045	3	✓		✓					✓											✓			✓		✓
-06	0401291310 (MW-7)	01-29-04	1310	3	✓		✓					✓											✓			✓		✓
-07	0401291345 (MW-8)	01-29-04	1345	3	✓		✓					✓											✓			✓		✓
-08	0401291155 (MW-9)	01-29-04	1155	3	✓		✓					✓											✓			✓		✓
-09	0401292000 (Duplicate)	01-29-04	2000	2	✓		✓					✓											✓			✓		✓
-10	Trip Blank			2	✓		✓					✓											✓					✓

Special Instructions: Send invoice and original report to Steve Weathers - Duke Energy Field Svcs PO Box 5493 Denver CO 80217

Sample Containers Intact? Y N
Temperature Upon Receipt: -2°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Gilbert Van Deventer	1/31/04	1:15pm			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Kalandk	2-1-04	0710