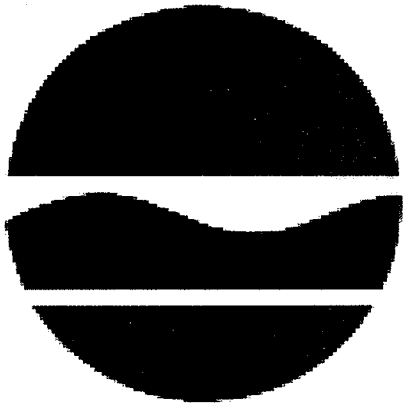
Monitoring Plan
North Lawrence Oil Dump
St. Lawrence County
NYSDEC Site # 6-45-013



625 Broadway
Albany, NY 12233-7013
518-402-9812

Date: January 25, 2005

Recommendations for Future Work

Site Name and Number: North Lawrence Oil Dump Site # 6-45-013 **Date:** 1/26/05

Project Management:

The Project Manager for this site is Sue Lasdin. She can be contacted at 518-402-9812. There is currently no work assignment for this site. Any samples will be sent to NYSDEC labs for analysis.

Site Conditions (locks, fences, mowing):

Uniform locks have been installed at the site. Mowing and plowing needs to be scheduled on a regular basis to ensure that the wells are accessible.

Well Conditions (labeling, etc.):

According to the inspection completed on 11/6/03, the wells are in good shape.

Monitoring Frequency, Detection Limit, Contaminants Monitored:

According to the monitoring data, sampling is being conducted for contaminants-of-concern using a detection limit that is too high. Results have been estimated at levels below groundwater standards. A detection limit of 0.05 ppb needs to be used to confirm that contaminants definitely are below standards. At this point, the frequency of monitoring might be reconsidered.

V:\Bureau Files\BurD-B\Monitoring Plan\LTM Plans\North Lawrence oil dump\Recommendations for future work.wpd

edocs

Monitoring Plan Checklist

Site Name and Number: North Lawrence Oil Dump Site # 6-45-013 **Date:** 1/25/05

✓ 1) **Cover sheet**

a) Site name
b) Site number
c) Site County
d) NYSDEC address
e) Date
f) DEC Logo centered on the page

✓ 2) **Section 1.0 Site Summary**

a) A section for background information, which can be found in the DER Site Remediation Tracking System, or in the ROD or other Decision document.
b) A site assessment, which includes information such as the last site visit, the accuracy of labeling of the wells, if uniform locks are installed, and the condition of the wells, as recorded on the LTMP summary sheets by Region. (Excel files stored in V:\bureau files\bureau d-b\workplan\OM&M workplan\workplan summaries\by region #.xls
c) The remedy of the site, including the type of remedy and if it is a monitoring-only remedy. This can be found in the ROD or other Decision document for the site.
d) Project Management information such as lab services used, current work assignments, and DEC PM, which can be obtained from the PM. (PM recorded on the LTMP Summary Sheets by Region. (Excel files stored in V:\bureau files\bureau d-b\workplan\OM&M workplan\workplan summaries\by region #.xls)

✓ 3) **Section 2.0 Sampling and Analysis Requirements**

This information can be found on the LTMP Summary Sheets by Region (Excel files stored in V:\bureau files\bureau d-b\workplan\OM&M workplan\workplan summaries\by region #.xls)

a) Monitoring frequency and/or sampling months
b) Number of wells
c) Contaminants-of-Concern (CoC's)
d) Test methods and detection limits
e) Frequency of monitoring reports
f) Historic monitoring results - Table on page 2-1 (If there are historic groundwater standards, include them in the table. Make one column for the old standard and one column for the new standard. Talk to the PM and note which standard the site has to comply with.)

✓ 4) **Section 3.0 Maps and Plans**

a) Site Location Plan, from the Registry
b) Site survey of the location of the wells, from Monitoring reports
c) Site Plan, from Monitoring reports

✓ 5) **Section 4.0 Monitoring Well Data**

a) Well boring logs, from Will Welling or from Monitoring reports
b) Well G.P.S Coordinates, from Will Welling

✓ 6) **Section 5.0 Health and Safety Plan**

These pages are Red in hard copy, but must be white when scanned into a .pdf file a) Emergency Planning sheet, from Tom Koch's files

b) Hospital Location Map, from existing Plan or from Tom Koch's files

✓ 7) **Section 6.0 Historic Monitoring Reports**

a) Any lab report data that you can dig up, from site files or contact the PM

✓ 8) **Section 7.0 Historic GW Contour Maps**

a) geological cross-sections, from monitoring reports or other site documents

b) groundwater contour maps, from Monitoring reports or other site documents

✓ 9) **Section 8.0 Treatment System Diagrams**

a) Any plans illustrating the treatment system, from site documents or the PM.

✓ 10) **Evaluate Plan**: Compare plan to ROD or other Decision document and/or discuss with Project Manager for the site.

a) Monitoring frequency

b) Detection Limit

c) Contaminants monitored

d) Complete Recommendations for Future Work (Wordperfect file found in V:\bureau files\Bureau d-b\monitoring plan\recommendations for future work.wpd.) Based on document review, PM discussions, etc.

✓ 11) **Plan Formatting:**

a) date, path and filename, and page numbers in the footer of the document

b) Table of Contents

✓ 12) **Information storage:**

a) Compare the list of contaminants and remedies to the database to check for accuracy, and enter or edit any data as necessary. (Any changes to the database regarding CoC's or remedies must be approved by Jim Harrington.)

b) Store files on V:\bureau files\bureau d-b\monitoring plan, burn a CD to include all files associated with the monitoring plan (including; this site checklist, the monitoring plan, and recommendations for future work), and e-mail the files to Marcia with a path and filename to put on EDOCS. The secretaries will set up the EDOCS folder with Sue Wither. (See the February 23, 2004 memo for guidance regarding EDOCS file-naming conventions at V:\bureau files\bureau d-b\files\filing & admin efficiency\edocs cheatsheet.pdf) Once files are stored in EDOCS, delete files from V-drive.

c) Update the spreadsheet at V:\Bureau Files\Bureau D-B\Work Plan\OM&M Work Plan\Workplan Summaries\by region #.xls. This file will store all of the information that was used to develop the monitoring plan. Also refer to V:\bureau files\bureau d-b\workplan\om&m workplan\workplan summaries\site checklist.xls for an additional checklist that can be used in the production of a monitoring plan.

Table of Contents

1.0 Site Summary

Background Information

The North Lawrence Oil Dump is a former waste disposal lagoon in the Township of Lawrence, St. Lawrence County, NY. NYSDEC found that the top 2 to 4 feet of soils in the lagoon were contaminated with oil, PCBs, lead, and VOCs. NYSDEC also found significant levels of PCBs, mercury, and lead on-site in the top 6 to 12 inches of wetland sediments, which were later excavated. To mitigate these problems, the site was put on the Registry of Hazardous Waste Sites and remedial actions were conducted.

The site is located in a sparsely populated, rural area. There is a regulated wetland area adjacent to the southern border, which drains to a tributary of Red Brook. The nearest private well is less than one mile away.

In 1980, NYSDEC observed oil stains on vegetation, 18 inches above the water, in the southeastern end of the lagoon. Samples were collected and analysis results revealed100 ppm of PCBs in the lagoon sediments. A Phase One investigation was completed in August 1985. A contract was signed to complete a Remedial Investigation / Feasibility Study (RI/FS) in October 1988.

Due to problems with the first RI/FS, a second RI/FS was completed in 1991. The second phase RI was conducted to confirm the results of the first phase RI, and to further delineate the extent of site contamination. The data collected indicated that lead contamination extended much further into the wetland than anticipated. Therefore, additional samples were collected in the wetland in June of 1992.

Remedy

According to the Record of Decision (ROD), the remedy consisted of soil excavation and pilot test of the solidification / stabilization process. The top 2 to 4 feet of soils in the lagoon, contaminated with PCB oil, lead, and volatile organic chemicals, were excavated. The top 6 inches to 1 foot of sediments from selected areas of the wetlands near the lagoon, contaminated with PCBs, Mercury, and lead, were excavated and treated on-site by a solidification / stabilization process.

The lagoon that was excavated was filled with clean soil. A disposal cell was constructed to maintain at least a 2-foot separation between the high seasonal groundwater and the bottom of the disposal cell. The treated material was placed in the disposal cell and the cell was properly closed.

A wetland restoration plan was implemented to restore areas of the wetland damaged during construction. Also, a long-term monitoring plan is being implemented to conduct monitoring of the site.

2.0 Monitoring Requirements and Results

Monitoring Requirements

To monitor the site's groundwater, five (5) monitoring wells were drilled. These wells are monitored once every five quarters for contaminants-of-concern as illustrated in Table 1. NYSDEC labs will analyze samples using the NYSDEC Analytical Protocol. There is a 30-year monitoring period from the start of OM&M, which began in October 1997. The most recent round of sampling was completed in November of 2004, and results indicate that the remedy is effective.

Table 1. North Lawrence Oil Dump
Quarterly Groundwater Monitoring Requirements

Monitoring Well	Contaminants-of-Concern	Water Quality Criteria [1] (ppb)	Detection Limit (ppb)
All Monitoring Wells Mw -102A Mw - 102B Mw - 301 Mw - 302 Mw - 303	Aroclor 1016	0.09 ppb	0.05 ppb
	Aroclor 1221	0.09 ppb	0.05 ppb
	Aroclor 1232	0.09 ppb	0.05 ppb
	Aroclor 1242	0.09 ppb	0.05 ppb
	Aroclor 1248	0.09 ppb	0.05 ppb
	Aroclor 1254	0.09 ppb	0.05 ppb
	Aroclor 1260	0.09 ppb	0.05 ppb
	Mercury	0.7 ppb	0.05 ppb
	Lead	50 ppb	0.05 ppb

1-NYSDEC. Division of Water Technical and Operational Guidance Series (1,1,1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. 1998

Groundwater Monitoring Results

According to the monitoring results from 8/16/99, 10/18/01, and 8/29/02 an illustrated in the tables on the following page, the contaminant levels for PCBs, lead, and mercury are below the NYSDEC groundwater standard. Most of the results are estimated because the lab was not using a correct detection limit. Because those results are estimated to be below the detection limit, the detection limit needs to be lowered to 0.05 ppb.

Concentrations of VOCs of concern, with the exception of Naphthalene, appear to be above the groundwater standard due to the fact that the detection limit is too high. (see attached tables). The concentrations may be below the limit, but there is no way to tell without using a lower detection limit.

North Lawrence Oil Dump
Site # 645013
MW - 102A
1999 sample # : A315 - 03
2001 sample # : LAW - 102A
2002 sample # : A315 - 102A

Contaminent (PCB)	DEC Groundwater Standard (ug/L) *	1999 Concentration (ug/L)	Q	2001 Concentration (ug/L)	Q	2002 Concentration (ug/L)	Q
Aroclor - 1016	0.09	1	U	0.051	U	0.05	U
Aroclor - 1221	0.09	2	U	0.051	U	0.05	U
Aroclor - 1232	0.09	1	U	0.051	U	0.05	U
Aroclor - 1242	0.09	1	U	0.051	U	0.05	U
Aroclor - 1248	0.09	1	U	0.051	U	0.05	U
Aroclor - 1254	0.09	1	U	0.051	U	0.025	JB
Aroclor - 1260	0.09	1	U	0.051	U	0.05	U

U - The compound was not detected.
J - The compound quanitation was less than the sample quanitation limit, but was greater than zero. The reported value is an estimated value.
B - The compound was found in the extraction prep blank. Thus the reported value is due to background contamination in the lab.
* Note: 0.09 ug/L is the DEC Groundwater Standard for the sum of all Polychlorinated Biphenyls (PCB's).

1999 data came from lab reports from ChemTech Consulting Group.
2001 data came from lab reports from the DEC Lab.
2002 data came from lab reports from Columbia Analytical Services.

North Lawrence Oil Dump
Site # 645013
MW - 102A
1999 sample # : A315 - 03
2001 sample # : LAW - 102A
2002 sample # : A315 - 2A

Analyte	DEC groundwater standards (ug/L)	1999 concentration (ug/L)	Q	2001 concentration (ug/L)	Q	2002 concentration (ug/L)	Q
Lead	50	3	U	3	U	2.8	B
Mercury	0.7	0.2	U	0.2	U	0.01	U

U - The compound was not detected.
B - The reported value was obtained from a reading that was less than the Contract Required Detection Limit but was greater than or equal to the Instrument Detection Limit.

1999 data came from lab reports from ChemTech Consulting Group.
2001 data came from lab reports from the DEC Lab.
2002 data came from lab reports from Columbia Analytical Services.

North Lawrence Oil Dump
Site # 645013
MW - 102B
1999 sample # : A315 - 02
2001 sample # : LAW - 102B
2002 sample # : A315 - 102B

Contaminent (PCB)	DEC Groundwater Standard (ug/L) *	1999 Concentration (ug/L)	Q	2001 Concentration (ug/L)	Q	2002 Concentration (ug/L)	Q
Aroclor - 1016	0.09	1	U	0.051	U	0.053	U
Aroclor - 1221	0.09	2	U	0.051	U	0.053	U
Aroclor - 1232	0.09	1	U	0.051	U	0.053	U
Aroclor - 1242	0.09	1	U	0.051	U	0.053	U
Aroclor - 1248	0.09	1	U	0.051	U	0.053	U
Aroclor - 1254	0.09	1	U	0.051	U	0.027	JB
Aroclor - 1260	0.09	1	U	0.051	U	0.053	U

U - The compound was not detected.
J - The compound quanitation was less than the sample quantitation limit, but was greater than zero. The reported value is an estimated value.
B - The compound was found in the extraction prep blank. Thus the reported value is due to background contamination in the lab.
* Note: 0.09 ug/L is the DEC Groundwater Standard for the sum of all Polychlorinated Biphenyls (PCB's).

1999 data came from lab reports from ChemTech Consulting Group.
2001 data came from lab reports from the DEC Lab.
2002 data came from lab reports from Columbia Analytical Services.

North Lawrence Oil Dump
Site # 645013
MW - 102B
1999 sample # : A315 - 02
2001 sample # : LAW - 102B
2002 sample # : A315 - 2B

Analyte	DEC groundwater standards (ug/L)	1999 concentration (ug/L)	Q	2001 concentration (ug/L)	Q	2002 concentration (ug/L)	Q
Lead	50	3	U	3	U	1.4	B
Mercury	0.7	0.2	U	0.2	U	0.01	U

U - The compound was not detected.
B - The reported value was obtained from a reading that was less than the Contract Required Detection Limit but was greater than or equal to the Instrument Detection Limit.

1999 data came from lab reports from ChemTech Consulting Group.
2001 data came from lab reports from the DEC Lab.
2002 data came from lab reports from Columbia Analytical Services.

North Lawrence Oil Dump
Site # 645013
MW - 301
1999 sample # : A315 - 03
2001 sample # : LAW - 301
2002 sample # : A315 - 01

Analyte	DEC groundwater standards (ug/L)	1999 concentration (ug/L)	Q	2001 concentration (ug/L)	Q	2002 concentration (ug/L)	Q
Lead	50	3	U	3	U	10.4	B
Mercury	0.7	0.2	U	0.2	U	0.02	U

U - The compound was not detected.
B - The reported value was obtained from a reading that was less than the Contract Required Detection Limit but was greater than or equal to the Instrument Detection Limit.

1999 data came from lab reports from ChemTech Consulting Group.
2001 data came from lab reports from the DEC Lab.
2002 data came from lab reports from Columbia Analytical Services.

North Lawrence Oil Dump
Site # 645013
MW - 302
1999 sample # : A315 - 04
2001 sample # : LAW - 302
2002 sample # : A315 - 302

Contaminent (PCB)	DEC Groundwater Standard (ug/L) *	1999 Concentration (ug/L)	Q	2001 Concentration (ug/L)	Q	2002 Concentration (ug/L)	Q
Aroclor - 1016	0.09	1	U	0.051	U	0.053	U
Aroclor - 1221	0.09	2	U	0.051	U	0.053	U
Aroclor - 1232	0.09	1	U	0.051	U	0.053	U
Aroclor - 1242	0.09	1	U	0.051	U	0.053	U
Aroclor - 1248	0.09	1	U	0.051	U	0.053	U
Aroclor - 1254	0.09	1	U	0.051	U	0.022	JB
Aroclor - 1260	0.09	1	U	0.051	U	0.053	U

U - The compound was not detected.
J - The compound quanitation was less than the sample quantitation limit, but was greater than zero. The reported value is an estimated value.
B - The compound was found in the extraction prep blank. Thus the reported value is due to background contamination in the lab.
* Note: 0.09 ug/L is the DEC Groundwater Standard for the sum of all Polychlorinated Biphenyls (PCB's).

1999 data came from lab reports from ChemTech Consulting Group.
2001 data came from lab reports from the DEC Lab.
2002 data came from lab reports from Columbia Analytical Services.

North Lawrence Oil Dump
Site # 645013
MW - 302
1999 sample # : A315 - 04
2001 sample # : LAW - 302
2002 sample # : A315 - 02

Analyte	DEC groundwater standards (ug/L)	1999 concentration (ug/L)	Q	2001 concentration (ug/L)	Q	2002 concentration (ug/L)	Q
Lead	50	3	U	3	U	5.1	B
Mercury	0.7	0.2	U	0.2	U	0.01	U

U - The compound was not detected.
B - The reported value was obtained from a reading that was less than the Contract Required Detection Limit but was greater than or equal to the Instrument Detection Limit.

1999 data came from lab reports from ChemTech Consulting Group.
2001 data came from lab reports from the DEC Lab.
2002 data came from lab reports from Columbia Analytical Services.

North Lawrence Oil Dump
Site # 645013
MW - 303
1999 sample # : A315 - 01
2001 sample # : LAW - 303
2002 sample # : A315 - 303

Contaminent (PCB)	DEC Groundwater Standard (ug/L) *	1999 Concentration (ug/L)	Q	2001 Concentration (ug/L)	Q	2002 Concentration (ug/L)	Q
Aroclor - 1016	0.09	1	U	0.051	U	0.053	U
Aroclor - 1221	0.09	2	U	0.051	U	0.053	U
Aroclor - 1232	0.09	1	U	0.051	U	0.053	U
Aroclor - 1242	0.09	1	U	0.051	U	0.053	U
Aroclor - 1248	0.09	1	U	0.051	U	0.053	U
Aroclor - 1254	0.09	1	U	0.051	U	0.053	U
Aroclor - 1260	0.09	1	U	0.051	U	0.053	U

U - The compound was not detected.
* Note: 0.09 ug/L is the DEC Groundwater Standard for the sum of all Polychlorinated Biphenyls (PCB's).

1999 data came from lab reports from ChemTech Consulting Group.
2001 data came from lab reports from the DEC Lab.
2002 data came from lab reports from Columbia Analytical Services.

Quality Assurance Key:

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 g/L, but a concentration of 3 g/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

U - Indicates compound was analyzed for but not detected. This is with the detection limit set at the groundwater standard for the contaminant. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the Protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U.

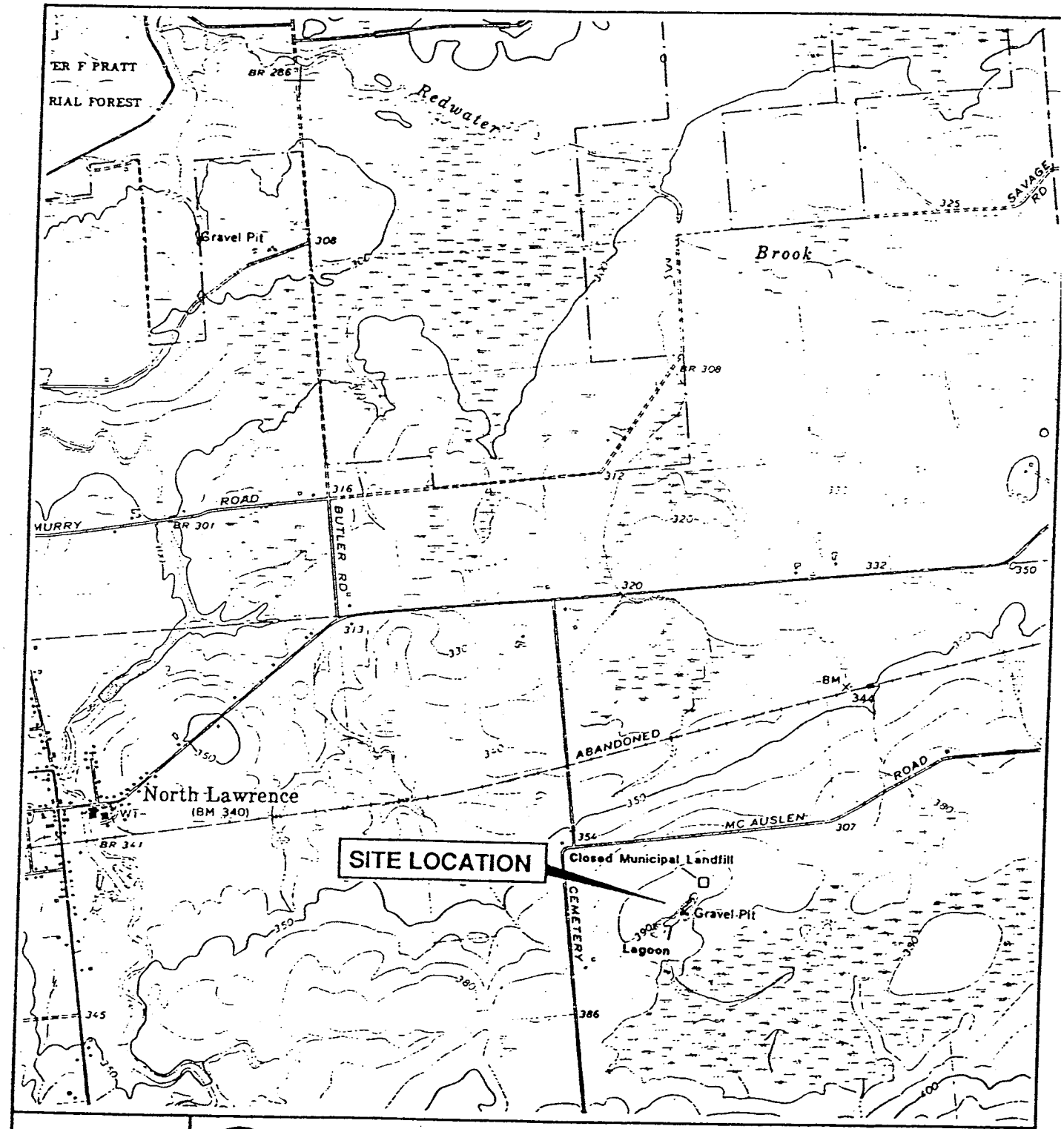
Discharge Monitoring Requirements

Discharge monitoring is not required.

Discharge Monitoring Results

Discharge monitoring is not required.

Section 3.0 - Site and Wells: Maps and Plans

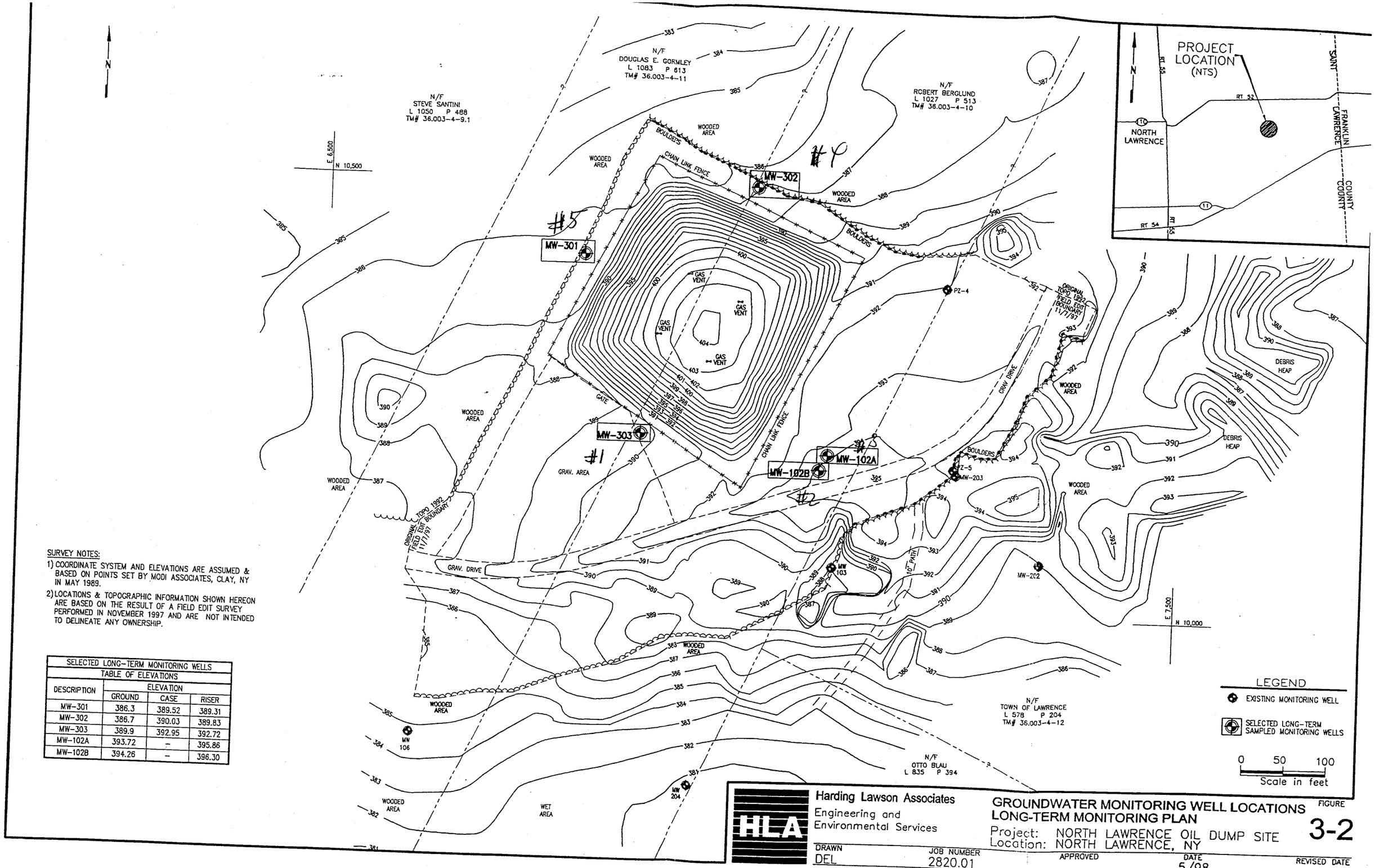


SITE LOCATION MAP
NORTH LAWRENCE OIL DUMP SITE
REMEDIAL INVESTIGATION

E.C.JORDAN CO.

6886-03

FIGURE 1



SURVEY NOTES:

1) COORDINATE SYSTEM AND ELEVATIONS ARE ASSUMED & BASED ON POINTS SET BY MODI ASSOCIATES, CLAY, NY IN MAY 1989.

2) LOCATIONS & TOPOGRAPHIC INFORMATION SHOWN HEREON ARE BASED ON THE RESULT OF A FIELD EDIT SURVEY PERFORMED IN NOVEMBER 1997 AND ARE NOT INTENDED TO DELINEATE ANY OWNERSHIP.

SELECTED LONG-TERM MONITORING WELLS TABLE OF ELEVATIONS			
DESCRIPTION	ELEVATION		
	GROUND	CASE	RISER
MW-301	386.3	389.52	389.31
MW-302	386.7	390.03	389.83
MW-303	389.9	392.95	392.72
MW-102A	393.72	–	395.86
MW-102B	394.26	–	396.30

Harding Lawson Associates
Engineering and Environmental Services

GROUNDWATER MONITORING WELL LOCATIONS LONG-TERM MONITORING PLAN

Project: NORTH LAWRENCE OIL DUMP SITE
Location: NORTH LAWRENCE, NY

FIGURE 3-2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
DEL	2820.01		5/98	

4.0 Monitoring Well Data

N S NORTHERN TECHNICAL SERVICES
8 East Main Street, Malone NY 12953

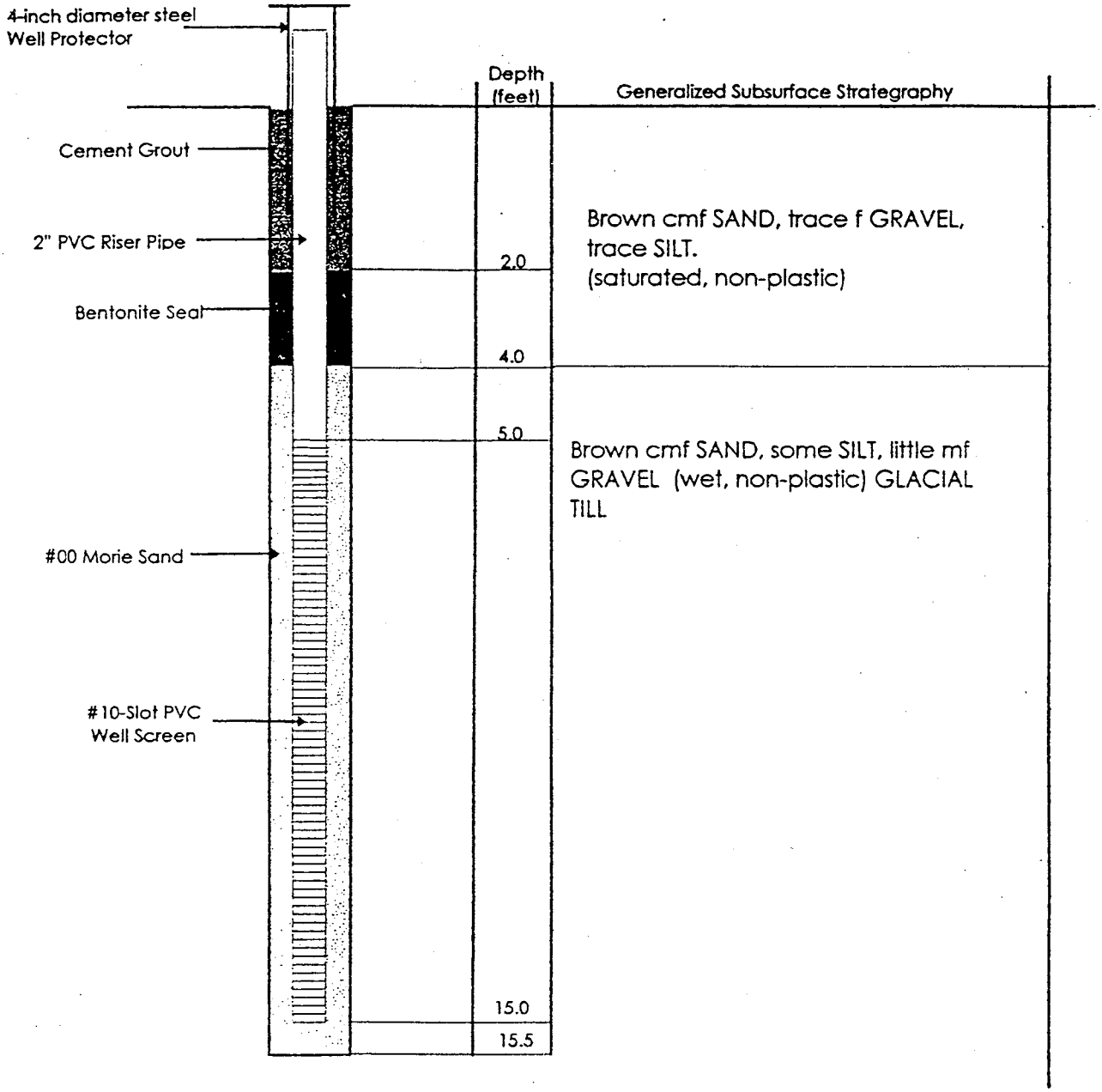
MONITOR WELL INSTALLATION DETAIL

CLIENT: IEM Sealand Corporation
North Lawrence, New York

Well No.: MW-301
NTS Report No.: JN103-3-7-97

PROJECT: North Lawrence Oil Dump Site
North Lawrence, New York

Date: 7/1/97
DRILLERS: C. Wheeler, L. DeBuque



7/21/07 JGV

NTS
8 East Main Street, Malone, New York 12953
Phone (518) 481-5008, Fax 483-2932

FIELD DATA SHEET
MONITOR WELL EVACUATION AND SAMPLING

HISTORICAL:

Project: North Lawrence Oil Dump — Well Number: MW-301
North Lawrence, N.Y. — NTS Project No.: JN103-3-7-97

Client: IEM Seiland Corp — Well Depth: 15.0 Feet
North Lawrence, N.Y. — Well Diameter: 2.0 Inches

EVACUATION:

Development method: Pump & Surge — Date: 7/3/97

Initial Static Water Level: 1.41 Feet B.G.S. — Developer(s): C. Wheeler

Event	Water Level (Ft.) B.G.S.	Time	Cum. amt. rem.	Temp. (°F)	pH (S.U.)	Cond. (MHOS)	Turbidity (NTU)	COMMENTS (color, odor, turbidity, recovery)
one	1.41	8:00	5 gal	53		690	129	No odor very turbid
two	2.23	10:20	10 gal	56			120	Slow Recovery
three	1.91	13:40	20 gal	55		660	101	
four	2.12	15:45	30 gal	56		680	51	
five								
six								

Well Volume Calculations

diameter	volume
1 1/2"	0.092 gal/feet
2"	0.163 gal/feet
3"	0.367 gal/feet
6"	1.47 gal/feet

Volume ≈ 2.2 gal

SAMPLING:

Date: _____ Time: _____ Sampled by: _____

Weather: _____ Field refrigeration: yes no

COMMENTS:

7/21/97 TEW

NORTHERN TECHNICAL SERVICES
8 East Main Street, Malone NY 12953

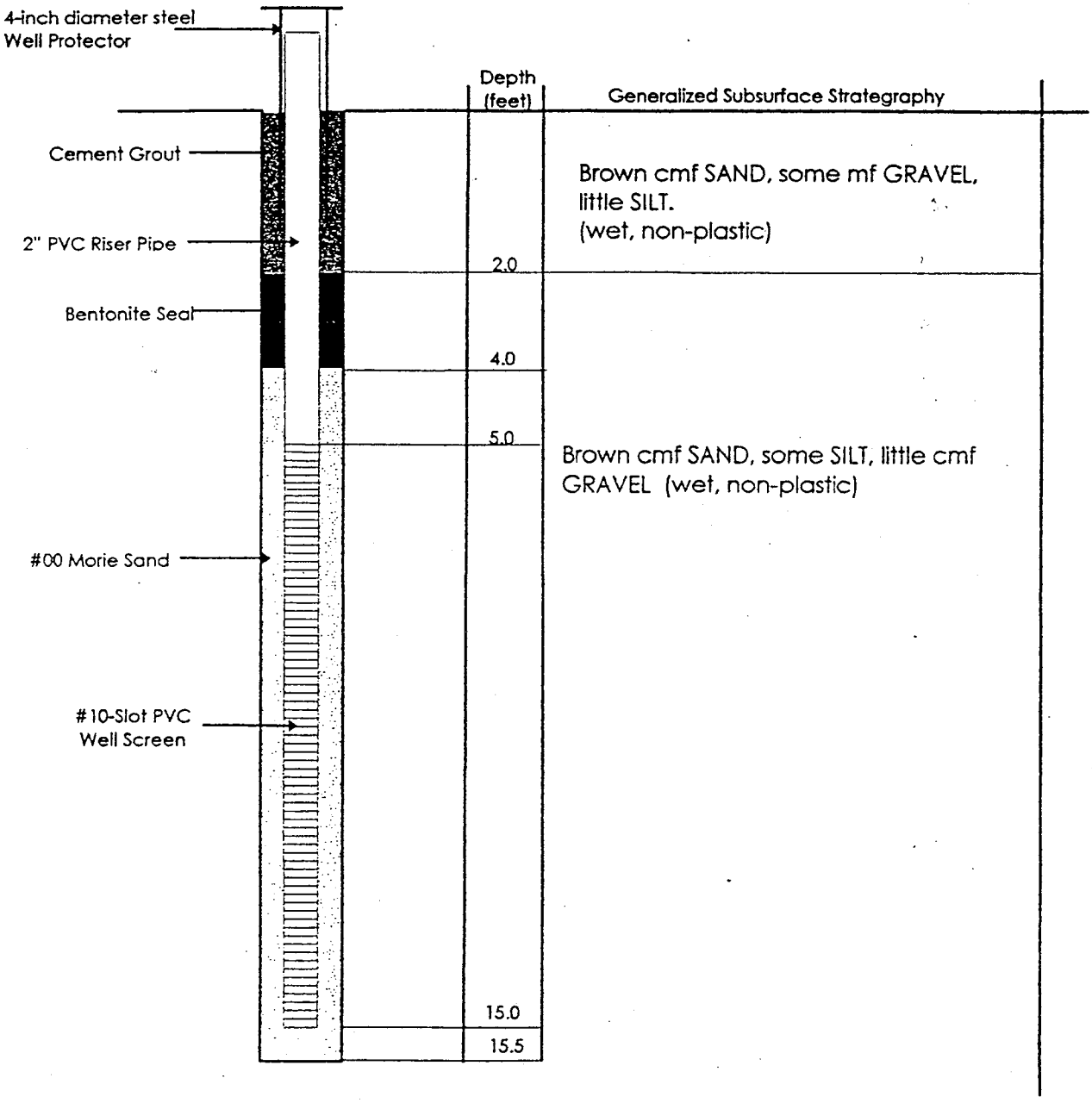
MONITOR WELL INSTALLATION DETAIL

CLIENT: IEM Sealand Corporation
North Lawrence, New York

Well No.: MW-302
NTS Report No.: JN103-3-7-97

PROJECT: North Lawrence Oil Dump Site
North Lawrence, New York

Date: 7/2/97
DRILLERS: C. Wheeler, L. DeBuque



NORTHERN TECHNICAL SERVICES
8 East Main Street, Malone NY 12953

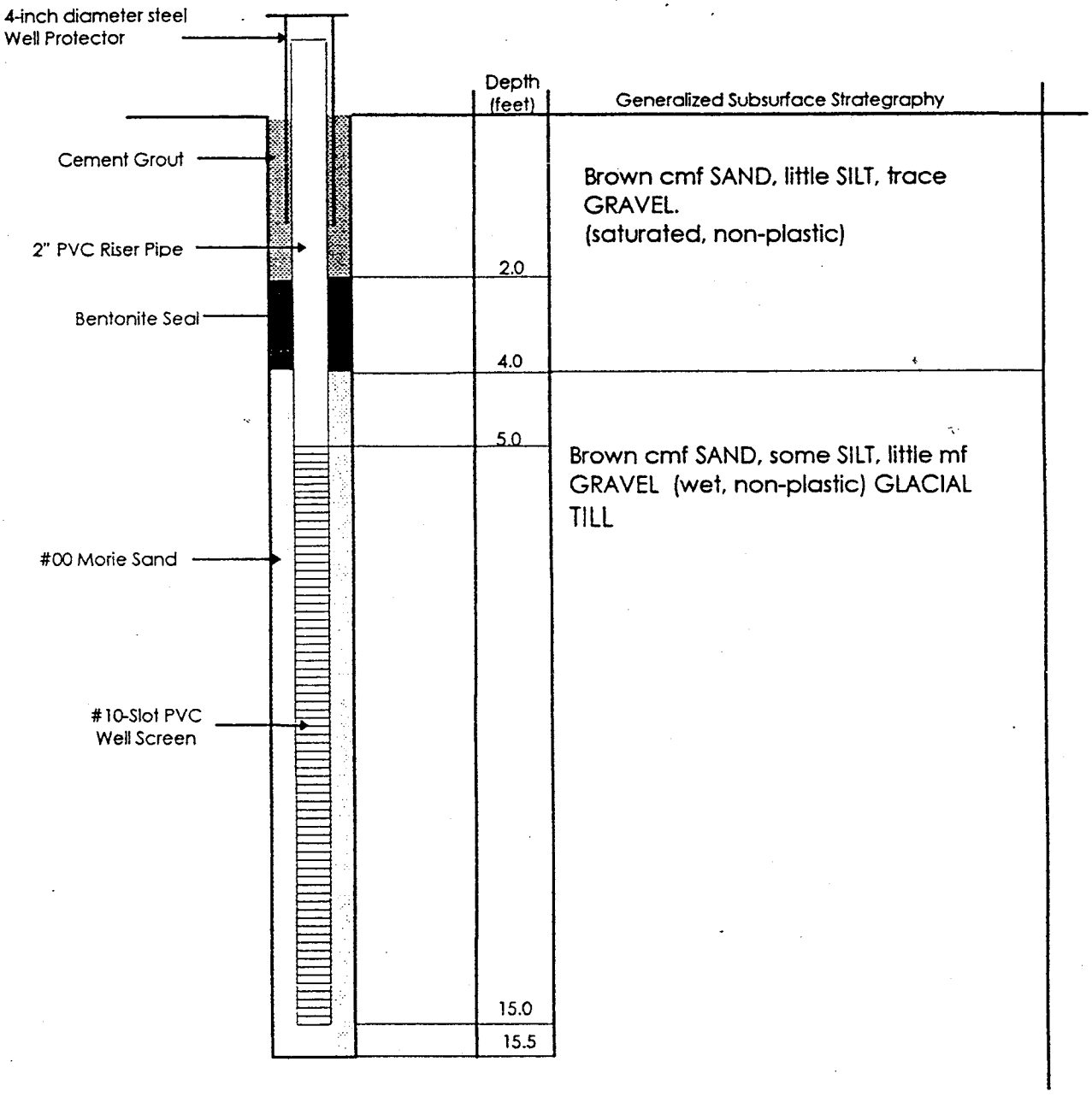
MONITOR WELL INSTALLATION DETAIL

CLIENT: IEM Sealand Corporation
North Lawrence, New York

Well No.: MW-303
NTS Report No.: JN103-1-7-97

PROJECT: North Lawrence Oil Dump Site
North Lawrence, New York

Date: 7/2/97
DRILLERS: C. Wheeler, L. DeBuque



7/21/97 VEQ

BORING NO. 102A

CLIENT NORTH LAWRENCE OIL DUMP SITE — PROJECT NO. 5809-02

CONTRACTOR AMERICAN AUGER AND DITCHING, INC. — DATE STARTED 3-27-89 COMPLTD. 3-28-89

METHOD Wireline	CASING SIZE 4"	HNU 11.7/10.2	PROTECTION LEVEL MOD. D
GROUND EL	SOIL DRILLED 40.4'	ROCK DRILLED 0'	BELOW GROUND
LOGGED BY M.J. Woodruff	CHECKED BY Cianchetto	DATE 4-29-89	Page 1 of 2

DEPTH (FT)	HNU AMB. AIR	SAMP NO. & TYPE NO.	SAMPLE	CLP	GC	OTHER	FEET RECOVERY	SOIL/ROCK DESCRIPTION	SOIL CLASS OR ROCK FRACTURES	BLOWS/6-IN	WELL DATA	EL. (FT)
0		S-1	✓				1.5/2.0	0.4' organics, grass, roots, mat, frozen. 0.6' silty-sand, brown, some coarse gravel, dry, frozen. 0.2' Gravel, fine, dry. 0.3' Sand, orange-brown, fine to medium dry.		7 8 9 9		0 Concrete
5		S-2	✓				1.4/2.0	Sand, light brown, fine to coarse, some fine gravel, trace cobbles, dry to moist.		31 22 23 29		5
0		S-3	✓				1.4/2.0	Sand, light brown, fine to coarse, some medium gravel, trace silt, trace cobble, moist.		33 30 47 70		10
15		S-4	✓				1.1/1.1	Till, sand and silt, gray, fine, moist.		35 110 50(1")		15 Grout
20		S-5	✓				1.4/1.9	Till, silty-sand, gray, fine, trace small to medium gravel, saturated.		21 30 43 100(4.5")		20
25		S-6	✓				1.1/1.4	Till, sand, gray, fine to coarse, some small to medium gravel, saturated.		38 75 100(5")		25 seal
30		S-7	✓				0.4/0.9	Till, silty-sand, gray, fine, little fine gravel, few boulders, wet.		96 100(4")		30 silica sand
35		S-8					0/0.2	Boulder - no sample.		50(4")		35
40												40

* U= THIN WALL S= SPLIT SPOON R= ROCK

E.C. JORDAN CO.

			BORING NO. 102A
CLIENT NORTH LAWRENCE OIL DUMP SITE			PROJECT NO. 5809-02
CONTRACTOR AMERICAN AUGER AND DITCHING, INC.		DATE STARTED 3-27-89	COMPLTD. 3-28-89
METHOD WIRELINE	CASING SIZE 4"	HNU 11.7/10.2	PROTECTION LEVEL MOD. D
GROUND EL	SOIL DRILLED 40.4'	ROCK DRILLED 0	BELOW GROUND
LOGGED BY M.J. Woodruff	CHECKED BY Gianchetto	DATE 4-29-89	Page 2 of 2

DEPTH (FT)	HNU AMB. AIR	SAMP NO. & TYPE NO.	SAMPLE	CLP	GC	OTHER	FEET RECOVERY	SOIL/ROCK DESCRIPTION	SOIL CLASS OR ROCK FRACTURES	BLOWS/6-IN	WELL DATA	EL. (FT)
40		S-9	✓		✓		0.3/0.4	Till, silty-sand, fine to medium, some medium gravel, moist.		103 (5")		40.4
								B.O.E. at 40.4 feet				
45												

* U= THIN WALL S= SPLIT SPOON R= ROCK

E.C. JORDAN CO.

BORING NO. 102B

IENT NORTH LAWRENCE OIL DUMP SITE			PROJECT NO. 5809-02
ONTRACTOR AMERICAN AUGER AND DITCHING, INC.		DATE STARTED 3-28-89	COMPLTD. 3-29-89
IETHOD Wireline	CASING SIZE 4"	HNU 11.7/10.2	PROTECTION LEVEL MOD. D
GROUND EL	SOIL DRILLED 10'	ROCK DRILLED 0'	BELOW GROUND
LOGGED BY M.J. Woodruff	CHECKED BY Gianchetto	DATE 4-29-89	Page 1 of 1

DEPTH (FT)	HNU AMB. AIR	SAMP NO. & TYPE NO.	SAMPLE	CLP	GC	OTHER	FEET RECOVERY	SOIL/ROCK DESCRIPTION	SOIL CLASS OR ROCK FRACTURES	BLOWS/6-IN	WELL DATA	EL. (FT)
		S-1					0/0.4	NO RECOVERY		58 (5")		0 concrete
												3 seal
5												4 5 silica sand
		S-2	✓		✓		0.3/0.9	Silty-sand, brown, little medium gravel, saturated.		65 125 (5")		
10								Boulders				10
								B.O.E. at 10 feet				

* U= THIN WALL S= SPLIT SPOON R= ROCK

E.C. JORDAN CO.

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** **NORTH LAWRENCE OIL DUMP**
s_code	character		7	Site ID **645013**
inv_date	date		8	Date N/A / /**03**
ltmpoint	character		16	**Well ID (name)** MW-102B
damage	character		1	Is well damaged or destroyed? Y or (N)
nytm_x	numeric		6	NYTM_X write below: 528214 — NYTM_Y write below: 4960994
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 2.3 7.5m?
gps_meth	character		1	GPS Method circle: *(T) rimble (A)ndv (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well 102B
conc_seal	character		1	Concrete surface seal present? *(Y) es or (N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color Silver
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: *(S) tick-up (F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter 4
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person
mag_per	character		20	Magellan instr. person
insp_by	character		20	Inspector
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** **NORTH LAWRENCE OIL DUMP**
s_code	character		7	Site ID **645013**
inv_date	date		8	Date 11/6 / /**03**
ltmpoint	character		16	**Well ID (name)** MW-102A
damage	character		1	Is well damaged or destroyed? *Y or N*
nytm_x	numeric		6	NYTM_X write below 528214 / NYTM_Y write below 4960998
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 2.3 7 Sat.
gps_meth	character		1	GPS Method circle: *(T) rimble (A)nd / (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well 102A
conc_seal	character		1	Concrete surface seal present? *(Y) es or (N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color Silver
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: *(S) tick-up (F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter 4"
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments Photos 2 3 4 + 5
trim_per	character		20	Trimble Instr. person J
mag_per	character		20	Magellan instr. person P
insp_by	character		20	Inspector W
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** NORTH LAWRENCE OIL DUMP
s_code	character		7	Site ID 645013
inv_date	date		8	Date 11/6 / /03
ltmpoint	character		16	**Well ID (name)** MW-203
damage	character		1	Is well damaged or destroyed? Y or (N)
nytm_x	numeric		6	NYTM_X write below 524235 / NYTM_Y write below 4630970
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 2.7
gps_meth	character		1	GPS Method circle: *(T) rimble (A) nd / (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well MW-203
conc_seal	character		1	Concrete surface seal present? *(Y) es or (N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color Red
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: *(S) tick-up (F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person
mag_per	character		20	Magellan instr. person
insp_by	character		20	Inspector
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** **NORTH LAWRENCE OIL DUMP**
s_code	character		7	Site ID **645013**
inv_date	date		8	Date 11/6/03 / /**03**
ltmpoint	character		16	**Well ID (name)** MW-303
damage	character		1	Is well damaged or destroyed? Y or (N)
nytm_x	numeric		6	NYTM_X write below 583155
nytm_y	numeric		7	NYTM_Y write below 4760770
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 2.4 6 Sat.
gps_meth	character		1	GPS Method circle: *(T) rimble (A)nd / (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well MW-303
conc_seal	character		1	Concrete surface seal present? *(Y) es or (N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color Yellow
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: *(S) tick-up (F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter 2"
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments we named at 303. We couldn't find name [illegible]
trim_per	character		20	Trimble Instr. person H
mag_per	character		20	Magellan instr. person P Plotter 3e2
insp_by	character		20	Inspector W
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** **NORTH LAWRENCE OIL DUMP**
s_code	character		7	Site ID **645013**
inv_date	date		8	Date / / **03**
ltmpoint	character		16	**Well ID (name)** NW 30 I
damage	character		1	Is well damaged or destroyed? *Y or N*
nytm_x	numeric		6	NYTM_X write below
nytm_y	numeric		7	NYTM_Y write below 4961011
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder
gps_meth	character		1	GPS Method circle: *(T) rimble (A)nd / (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well
conc_seal	character		1	Concrete surface seal present? *(Y) es or (N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color Black
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: *(S) tick-up (F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments Photo # 3 I
trim_per	character		20	Trimble Instr. person
mag_per	character		20	Magellan instr. person
insp_by	character		20	Inspector
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** **NORTH LAWRENCE OIL DUMP**
s_code	character		7	Site ID **645013**
inv_date	date		8	Date 9/6 / /**03**
ltmpoint	character		16	**Well ID (name)** MW-302
damage	character		1	Is well damaged or destroyed? *Y* or *N*
nytm_x	numeric		6	NYTM_X write below 528136 / NYTM_Y write below 4746107
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 3.0 6 Sat
gps_meth	character		1	GPS Method circle: *(T) rimble (A)nd / (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well MW 302
conc_seal	character		1	Concrete surface seal present? *(Y) es or (N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color Blue = Paint
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: (S) *tick-up (F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter 2"
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments Flush Mount.
trim_per	character		20	Trimble Instr. person
mag_per	character		20	Magellan instr. person
insp_by	character		20	Inspector
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** **NORTH LAWRENCE OIL DUMP**
s_code	character		7	Site ID **645013**
inv_date	date		8	Date 10 / /**03**
ltmpoint	character		16	**Well ID (name)** P3 4
damage	character		1	Is well damaged or destroyed? *Y or N*
nytm_x	numeric		6	NYTM_X write below 5282 16
nytm_y	numeric		7	NYTM_Y write below 1 a 0 1 9 5
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 3.1 6 Sat
gps_meth	character		1	GPS Method circle: *(T) rimble (A)nd / (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well P 3 4
conc_seal	character		1	Concrete surface seal present? *(Y) es or (N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: (S) *tick-up (F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter 3.5
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments Photo at 23
trim_per	character		20	Trimble Instr. person
mag_per	character		20	Magellan instr. person
insp_by	character		20	Inspector
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** **NORTH LAWRENCE OIL DUMP**
s_code	character		7	Site ID **645013**
inv_date	date		8	Date / /**03**
ltmpoint	character		16	**Well ID (name)** 203
damage	character		1	Is well damaged or destroyed? *Y* or (N)
nytm_x	numeric		6	NYTM_X write below: 528253 | NYTM_Y write below: 4961021
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder
gps_meth	character		1	GPS Method circle: *(T) rimble (A)nd / (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well 203
conc_seal	character		1	Concrete surface seal present? *(Y) es or (N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: *(S) tick-up (F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material: *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter 4
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person
mag_per	character		20	Magellan instr. person
insp_by	character		20	Inspector
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** **NORTH LAWRENCE OIL DUMP**
s_code	character		7	Site ID **645013**
inv_date	date		8	Date 11/6 / /**03**
ltmpoint	character		16	**Well ID (name)** P2 5
damage	character		1	Is well damaged or destroyed? Y or N
nytm_x	numeric		6	NYTM_X write below 528253
nytm_y	numeric		7	NYTM_Y write below 4746318
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 3.2
gps_meth	character		1	GPS Method circle: *(T) rimble (A)nd / (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well P2 5
conc_seal	character		1	Concrete surface seal present? *(Y) es or (N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color Rocin ego blue
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: *(S) tick-up (F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter ~3
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person
mag_per	character		20	Magellan instr. person
insp_by	character		20	Inspector
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** **NORTH LAWRENCE OIL DUMP**
s_code	character		7	Site ID **645013**
inv_date	date		8	Date 11/6 / /**03**
ltmpoint	character		16	**Well ID (name)** P2 S
damage	character		1	Is well damaged or destroyed? *Y or N*
nytm_x	numeric		6	NYTM_X write below 528253
nytm_y	numeric		7	NYTM_Y write below 4760318
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 3.2
gps_meth	character		1	GPS Method circle: *(T) rimble (A)nd / (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well P2 S
conc_seal	character		1	Concrete surface seal present? *(Y) es or (N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color Robin egg blue
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: *(S) tick-up (F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter ~3
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person D
mag_per	character		20	Magellan instr. person P
insp_by	character		20	Inspector W
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** **NORTH LAWRENCE OIL DUMP**
s_code	character		7	Site ID **645013**
inv_date	date		8	Date 11/6 / /**03**
ltmpoint	character		16	**Well ID (name)** MW - 202
damage	character		1	Is well damaged or destroyed? *Y or* (N)
nytm_x	numeric		6	NYTM_X write below 528293
nytm_y	numeric		7	NYTM_Y write below 4651012
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 3.3 6 Sat
gps_meth	character		1	GPS Method circle: *(T) rimble (A)nd / (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well MW-202
conc_seal	character		1	Concrete surface seal present? *(Y) es or (N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color Rusty + yellow
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: (S) *tick-up (F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material: *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter 4
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person
mag_per	character		20	Magellan instr. person
insp_by	character		20	Inspector
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

North Lawrence Oil Dump Monitoring Well Characteristics						
Mon. Well #	**Type**	**Diameter (in)**	**Depth to Bottom (ft)**	**Depth to Water (ft)**	**X-Coord**	**Y-Coord**
202	Stick-Up	2	Not Sampled	Not Sampled	528,293	4,961,012
203	Stick-Up	2	Not Sampled	Not Sampled	528,235	4,960,970
301	Stick-Up	4	18.05	14	528,102	4,961,011
302	Stick-Up	4	17.8	12.97	528,136	4,961,067
303	Stick-Up	2	18.2	12.52	528,155	4,960,970
102 A	Stick-Up	2	42.4	34.4	528,214	4,960,998
102 B	Stick-Up	2	12.35	1.65	528,214	4,960,994
PZ 4	Stick-Up	2	Not Sampled	Not Sampled	528,216	4,961,075
PZ 5	Stick-Up	2	Not Sampled	Not Sampled	528,253	4,961,018

Section 5.0 - Health and Safety Plan

SH099-0812-A315-[01-05]
VOAs, PCBs, lead-y-mercury

SITE SAFETY PLAN

Site Name: North Lawrence Oil Dump
Site Address: Mc Ausien Road
Lawrence [T] 12949
County: St. Lawrence Region: 6 T&A Code: A315

Registry Status: ☒ existing site ☐ "P" site ☐ not listed ☐ "Brownfields" site
Site ID No.: 645013
"P" Site ID No.: _____
Site ID No.: _____

Regional contact: Darrell Swerdowski Phone No.: 315-785-2513

Plan prepared by: JM Koch Date: August 9, 1999
Approved by:
- Section Representative: [illegible] Date: 8/10/99
- Section Chief: [illegible] Date: 8/10/99

Proposed date of sampling/investigation: August 12, 1999

BACKGROUND INFORMATION

Information sources for background review:

- ☐ Phase I/Phase II Investigation: Date: _____
- ☐ Preliminary Site Assessment: Date: _____
- ☐ EPA/NUS Investigation Report: Date: _____
- ☒ ~~RI/FS Reports~~: R.O.D. Date: March 1993
- ☒ Registry/File Review

Site Status:
☐ Active ☒ Inactive ☐ Abandoned ☐ Unknown

Are there any unusual features on the site that may be of concern?
☒ Yes [describe below] ☐ No
The site is located in a very rural area of St. Lawrence County & adjacent to a wetland.

Brief site history and description:
The dump was used for disposal of waste oils & sludges in the 1960s. An RI/FS was completed in 1993. The follow-up ROD called for the on-site stabilization & solidification of the contaminated soil. The work was completed by late October 1997. Follow-up O&M sampling is required periodically. Sampling consists of periodic groundwater monitoring.

Wastes of concern:
PCBs & heavy metals ~~that had~~ from contaminated waste oil.

Waste characteristics:

- ☐ Corrosive
- ☐ Reactive
- ☒ Toxic
- ☐ Ignitable
- ☐ Volatile
- ☐ Unknown

Overall hazard levels anticipated on-site:

- ☐ High
- ☐ Moderate
- ☒ Low
- ☐ None
- ☐ Unknown

Slip/trip hazards:

- ☐ Yes
- ☒ No

Describe: The dump has been graded & seeded. Slip & trip hazards should be minimal. There should be no protruding hazards on-site.

Overall hazard assessment:
Low; most serious concern would be from insects, bees in particular which may be in the wells.

ON-SITE ACTIVITIES

Has this site been sampled and/or investigated before?	☒ Yes	☐ No		
Has the site perimeter been identified?	☒ Yes	☐ No	☐ Unknown	
Is the site fenced?	☒ Yes	☐ No	☐ Unknown	
Is a site map/sketch available?	☒ Yes	☐ No	[if yes, attach]	
Have areas of contamination been identified?	☒ Yes	☐ No		
Will air quality monitoring be done on-site?	☐ Yes	☒ No		
Is sampling planned at this site?	☒ Yes	☐ No		

If yes:

- ☐ soil/sediment
- ☐ surface water
- ☒ groundwater
- ☐ waste product

Parameters to be analyzed for:
VOCs, PCBs, lead & mercury

List the proposed on-site activities:

1. Enter site perimeter d.m. zone
2. Investigate perimeter areas
3. Locate all of the wells that we intend to sample
4. Purge & sample wells.
5. Decon all equipment & finish field notes
6. Leave site after all work is completed.

Will respiratory protection be required? ☐ Yes ☒ No

Level of respiratory protection anticipated.

- Level B [SCBA or supplied airline] ☐
- Level C [Air purifying respirator] ☐
- Level D [No external respiratory protection] ☒

Are Modifications to respiratory protection anticipated? ☐ Yes ☒ No

Describe: _____

_____

_____

Air quality monitoring equipment to be used (describe)

- ☐ Photo ionization detector: _____
- ☐ Flame ionization detector: _____
- ☐ Explosimeter/O2 meter: _____
- ☐ Other equipment: _____

List of personnel anticipated to be on-site

	Name	Representing [DEC, DOH, etc.]/phone no.
1.	T.M. Koch	DEC: E-R (Central Office)
2.	Terry Hughes	" " " " "
3.	Mike Cox	" " " (Region 6)
4.		315-764-4581
5.		
6.		
7.		
8.		
9.		
10.		

Emergency Planning

Is 911 Emergency service available for the County that the site is located in? ☒ Yes ☐ No

Hospital: Canton-Potsdam Hospital 50 LeRoy St., Potsdam Phone No. (315) 265-3300

Ambulance: Call 9-1-1 Phone No. ( ) 9-1-1

Police: Call 9-1-1 Phone No. ( ) 9-1-1

Other Emergency: St Lawrence Co. Sherriff's Dept. in ogdensburgh Phone No. (315) 379-2222

DEC, DOH, County and/or Municipal Contacts

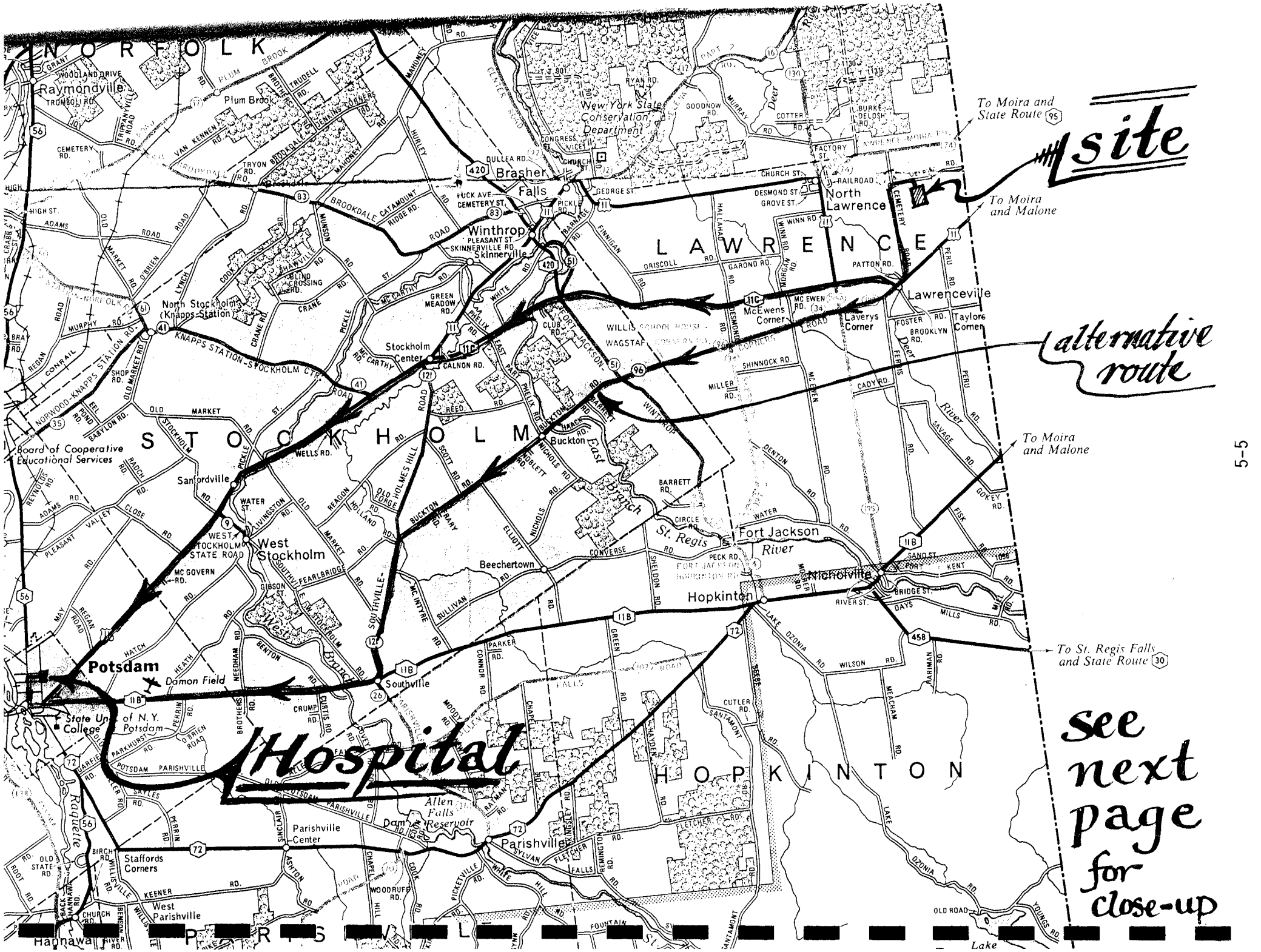
Name	Phone Number
• Darrell Swerdowski	(315) 785-2513
• Mike Cox	(315) 764-4581
•	( )
•	( )

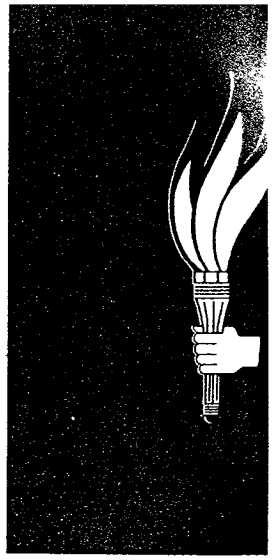
Hospital Route Information

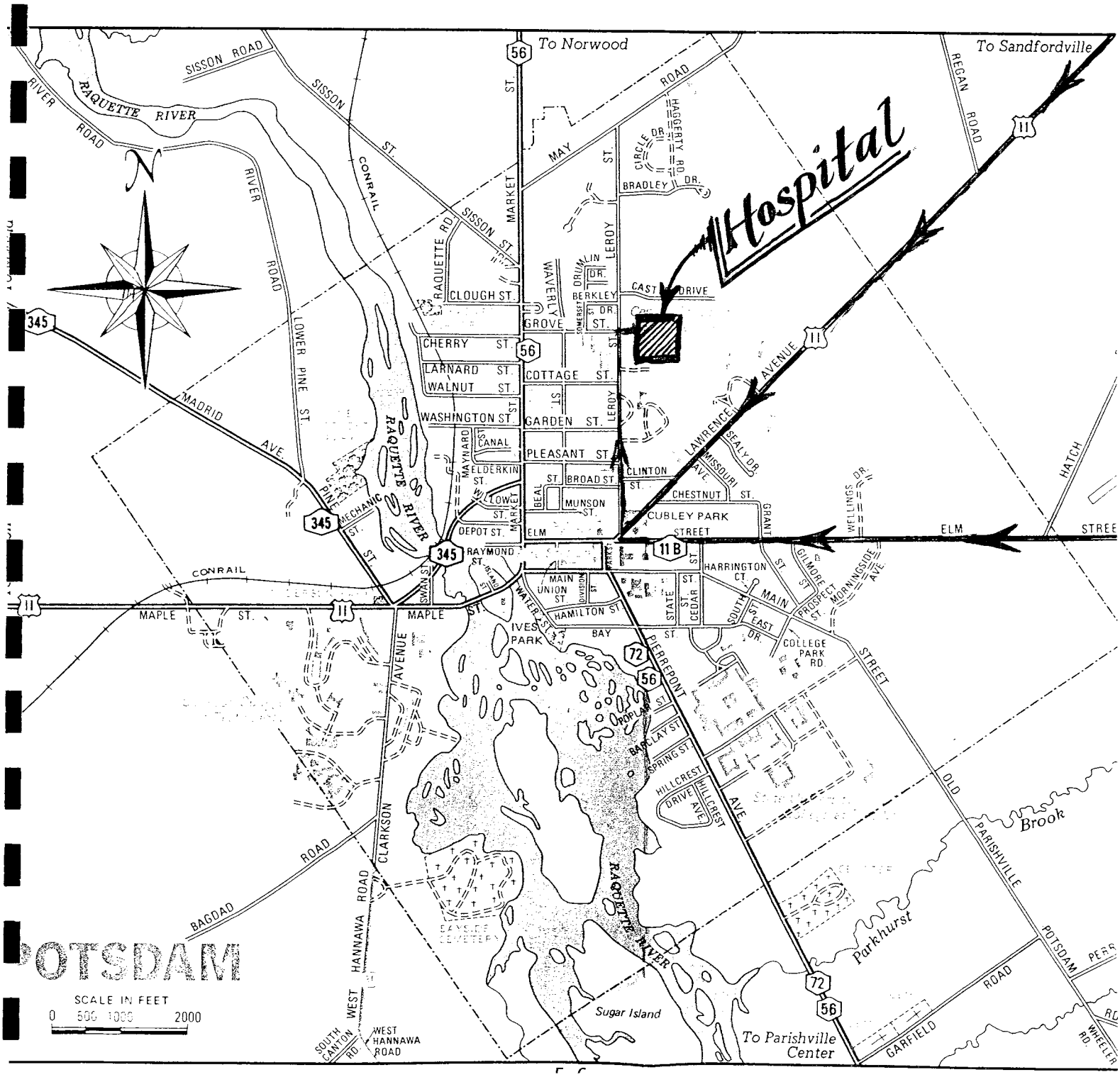
- Attach a map that shows the site location and a nearby hospital. Highlite the best route to the hospital.

Optional written directions:

Leave site, turn left onto McAuslen Road. Turn ~~right~~ left onto Cemetery Road. Venture down to Lawrenceville. Drive down either Route 11C or Route 96 - See attached maps for further detail


site
To Moira and State Route 95
To Moira and Malone
alternative route
To Moira and Malone
To St. Regis Falls and State Route 30
Hospital
see next page for close-up
NORFOLK
LAWRENCE
STOCKHOLM
HOPKINTON
PARISHVILLE
Raymondville
Plum Brook
New York State Conservation Department
Brasher Falls
North Lawrence
Winthrop
Skinnerville
Lawrenceville
McEwens Corner
Laverys Corner
Taylors Corner
North Stockholm (Knapps Station)
Stockholm Center
Buckton East Branch
Board of Cooperative Educational Services
Sanfordville
West Stockholm
Fort Jackson
St. Regis River
Beechertown
Nicholville
Hopkinton
Potsdam
Damon Field
State Univ. of N.Y. College Potsdam
Southville
Allen Falls Reservoir
Parishville Center
Parishville
Staffords Corners
West Parishville
Hannawa
Lake Ozonia
5-5

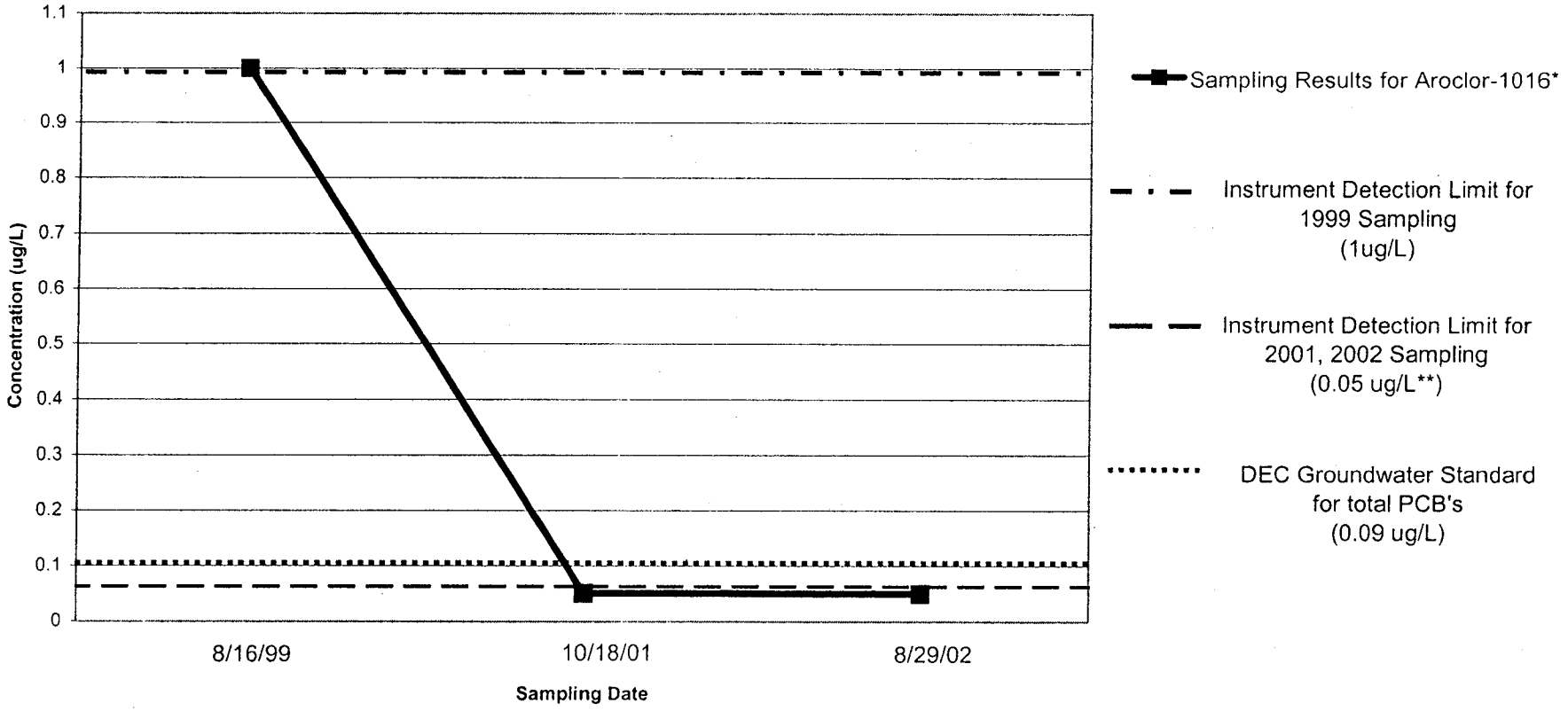



To Norwood
To Sandfordville
Hospital
SISSON ROAD
RAQUETTE RIVER
RIVER ROAD
SISSON ST.
CONRAIL
MARKET ST.
MAY ROAD
REGAN ROAD
HAGGERTY RD.
CIRCLE DR.
BRADLEY DR.
LEROY ST.
RAQUETTE RD.
CLOUGH ST.
WAVERLY
ORUMLIN
BERKLEY
SOMERSET
CAST DRIVE
GROVE ST.
CHERRY ST.
LARNARD ST.
WALNUT ST.
COTTAGE ST.
WASHINGTON ST.
GARDEN ST.
PLEASANT ST.
CANAL ST.
MAYNARD ST.
ELDERKIN ST.
LOWELL ST.
MARKET ST.
BEAL ST.
BROAD ST.
MUNSON ST.
DEPOT ST.
ELM ST.
CLINTON ST.
CHESTNUT ST.
CUBLEY PARK
LAWRENCE AVENUE
SEALY DR.
MISSOURI AVE.
GRANT ST.
WELLINGS DR.
HATCH
ELM STREET
MADRID AVE.
LOWER PINE ST.
MECHANIC ST.
RAQUETTE RIVER
RAYMOND ST.
ISLAND ST.
SWAN ST.
CONRAIL
MAPLE ST.
MAPLE AVENUE
WATER ST.
MAIN
UNION ST.
DIVISION ST.
HAMILTON ST.
BAY ST.
IVES PARK
STATE ST.
CEDAR ST.
HARRINGTON CT.
GILMORE ST.
PROSPECT ST.
MORNINGSIDE AVE.
SOUTH MAIN ST. EAST
DR.
COLLEGE PARK RD.
STREET
PIERREPONT ST.
POPLAR ST.
BARCLAY ST.
SPRING ST.
HILLCREST DRIVE
HILLCREST AVE.
OLD PARISHVILLE ROAD
Brook
Parkhurst
POTSDAM
PERS
RD.
WHEELER
GARFIELD ROAD
To Parishville Center
Sugar Island
RAQUETTE RIVER
BAYSIDE CEMETERY
BAGDAD ROAD
CLARKSON
HANNAWA ROAD
WEST HANNAWA ROAD
SOUTH CANTON RD.
POTSDAM
SCALE IN FEET
0 500 1000 2000
N
345
56
11
11B
72

Section 6.0 - Historic Monitoring Reports

Figure 1

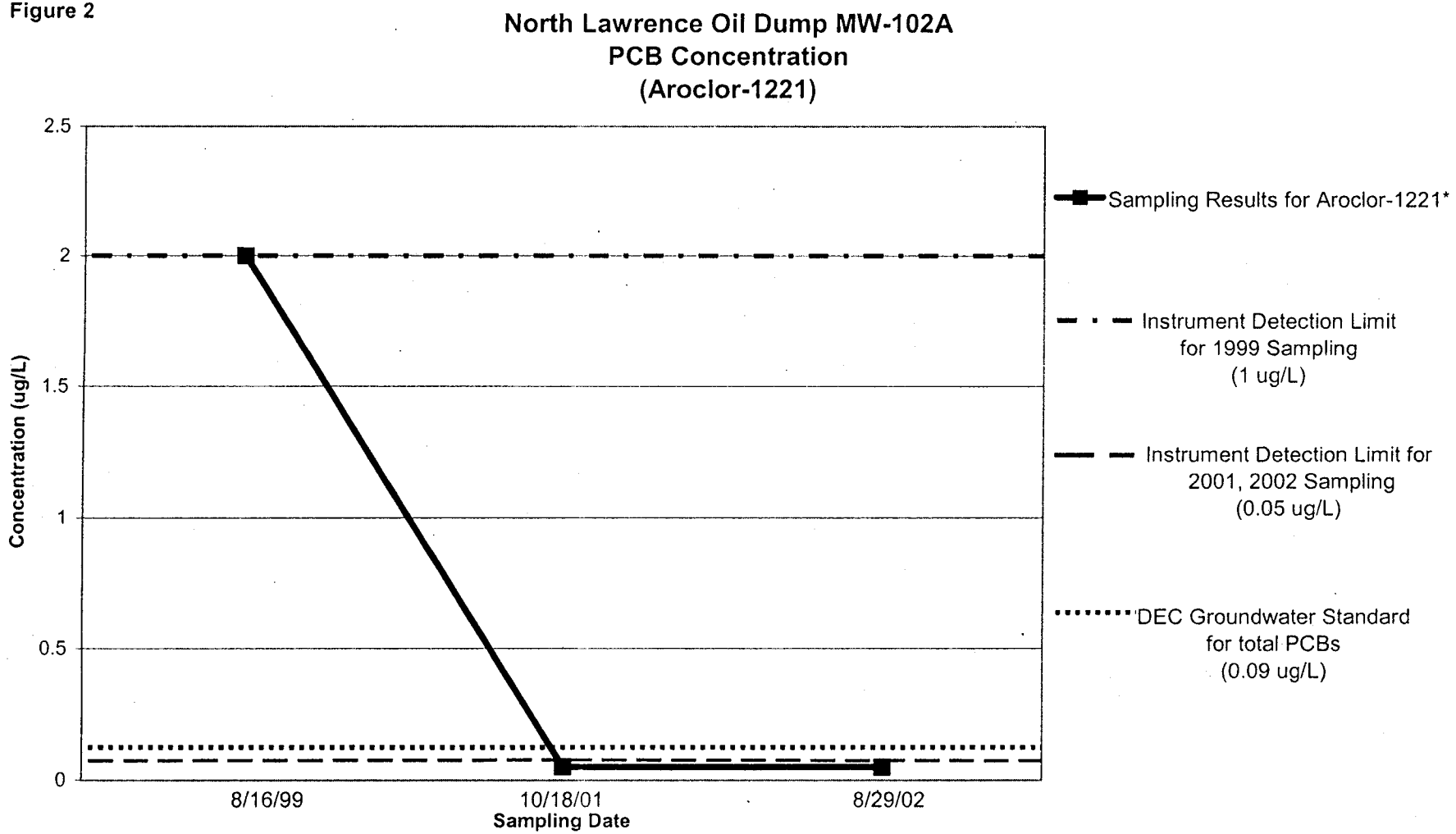
North Lawrence Oil Dump MW-102A
PCB Concentration
(Aroclor-1016)



*Note: For all sampling dates in question, this PCB was undeteced in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.05 ug/L for 2002. The PCB was undetected based on these detection limits.

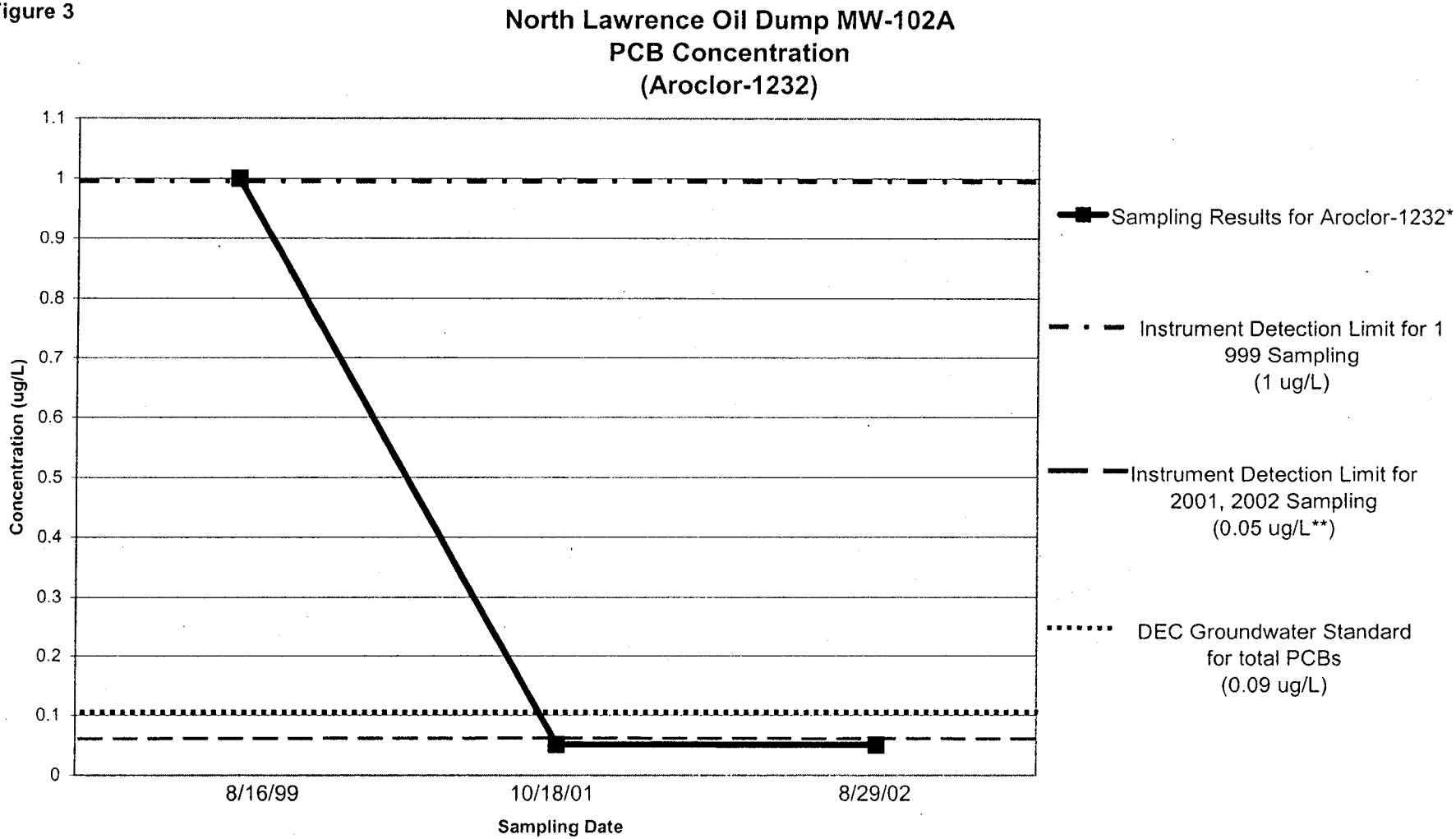
Figure 2



*Note: For the sampling dates in question, this PCB was undetected in this well. The concentration of the PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.05 ug/L for 2002. This PCB was undetected based on these detection limits.

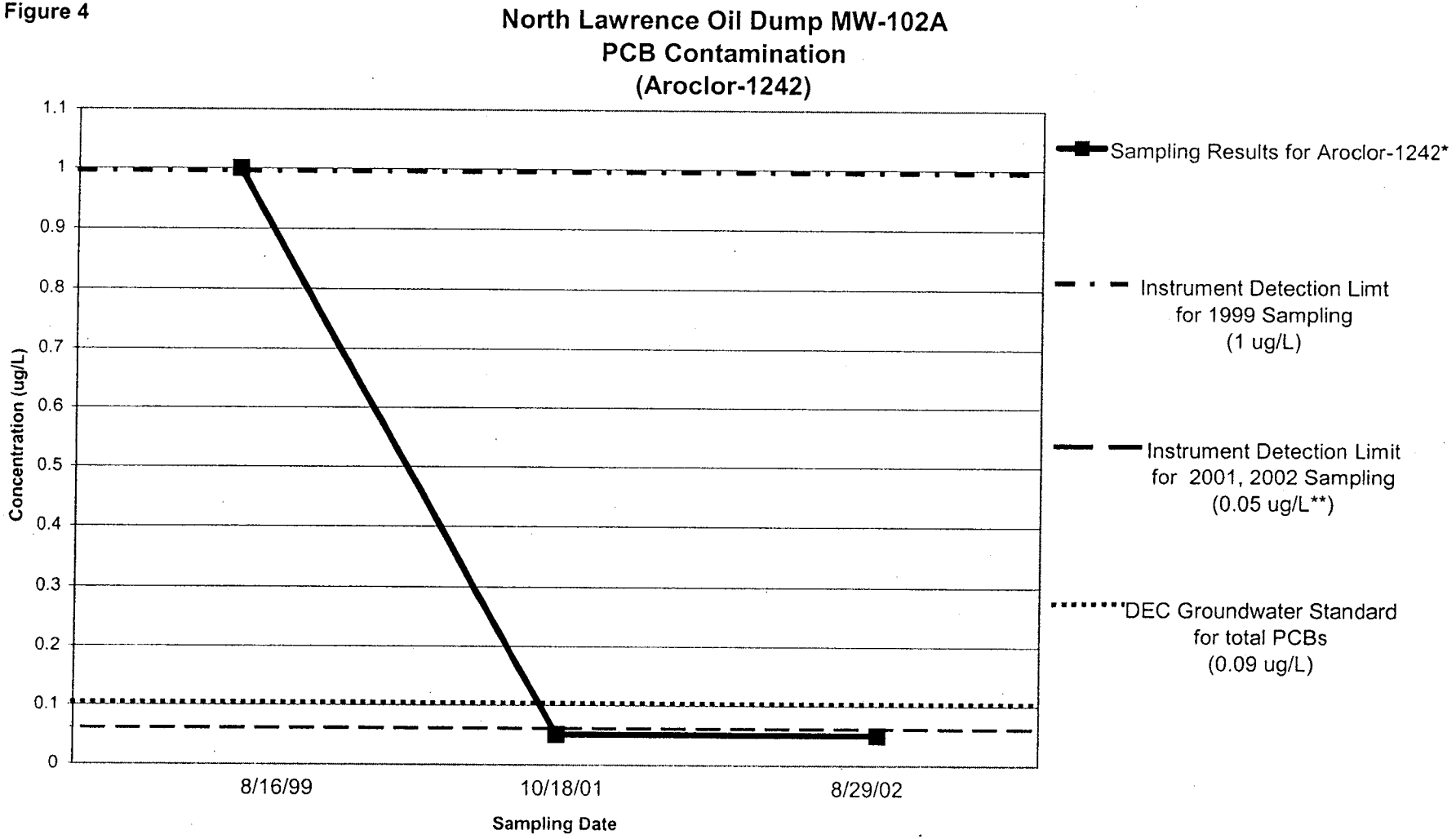
Figure 3



*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.05 ug/L for 2002. The PCB was undetected based on these detection limits.

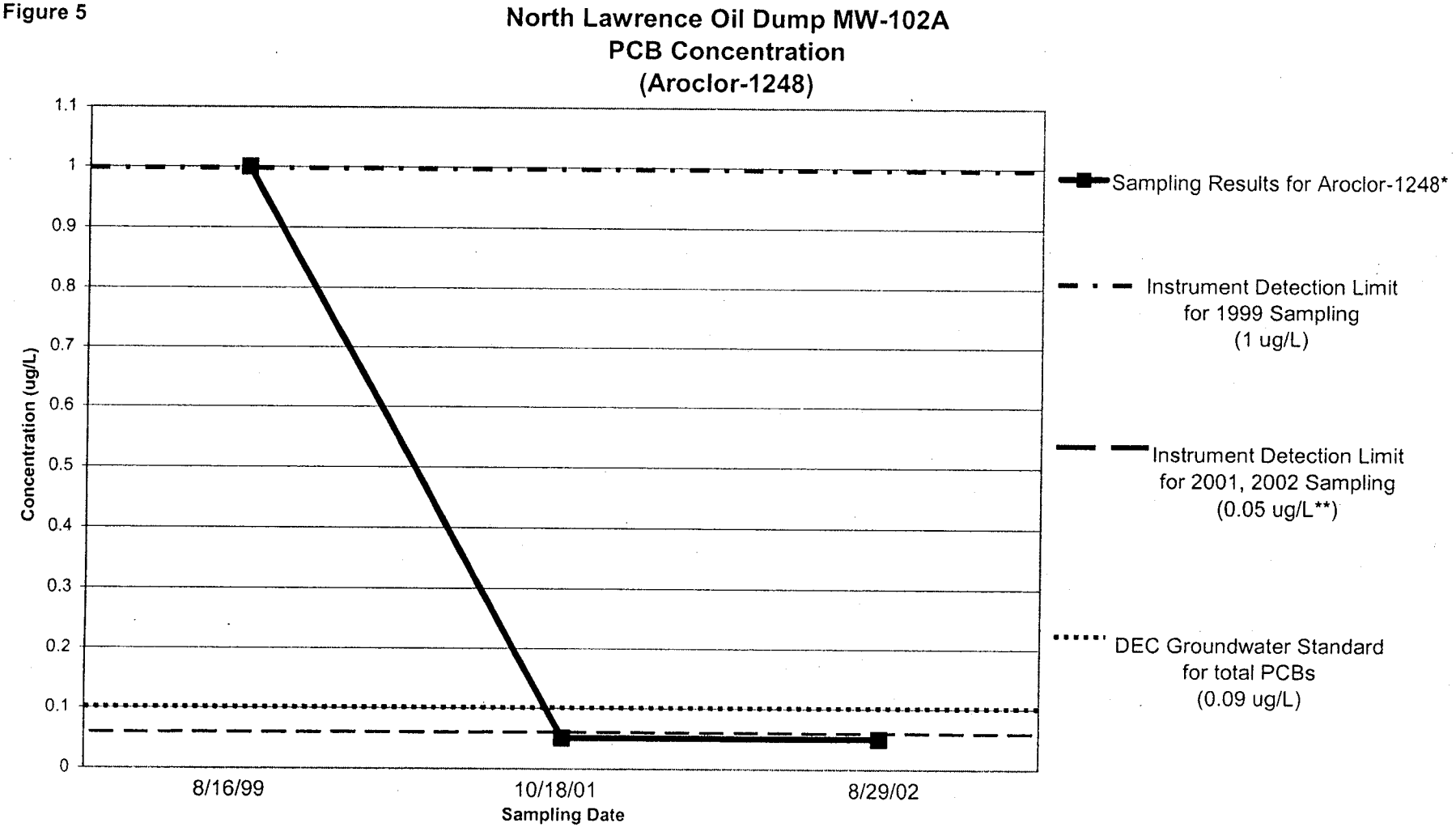
Figure 4



*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.05 ug/L for 2002. The PCB was undetected based on thesed detection limits.

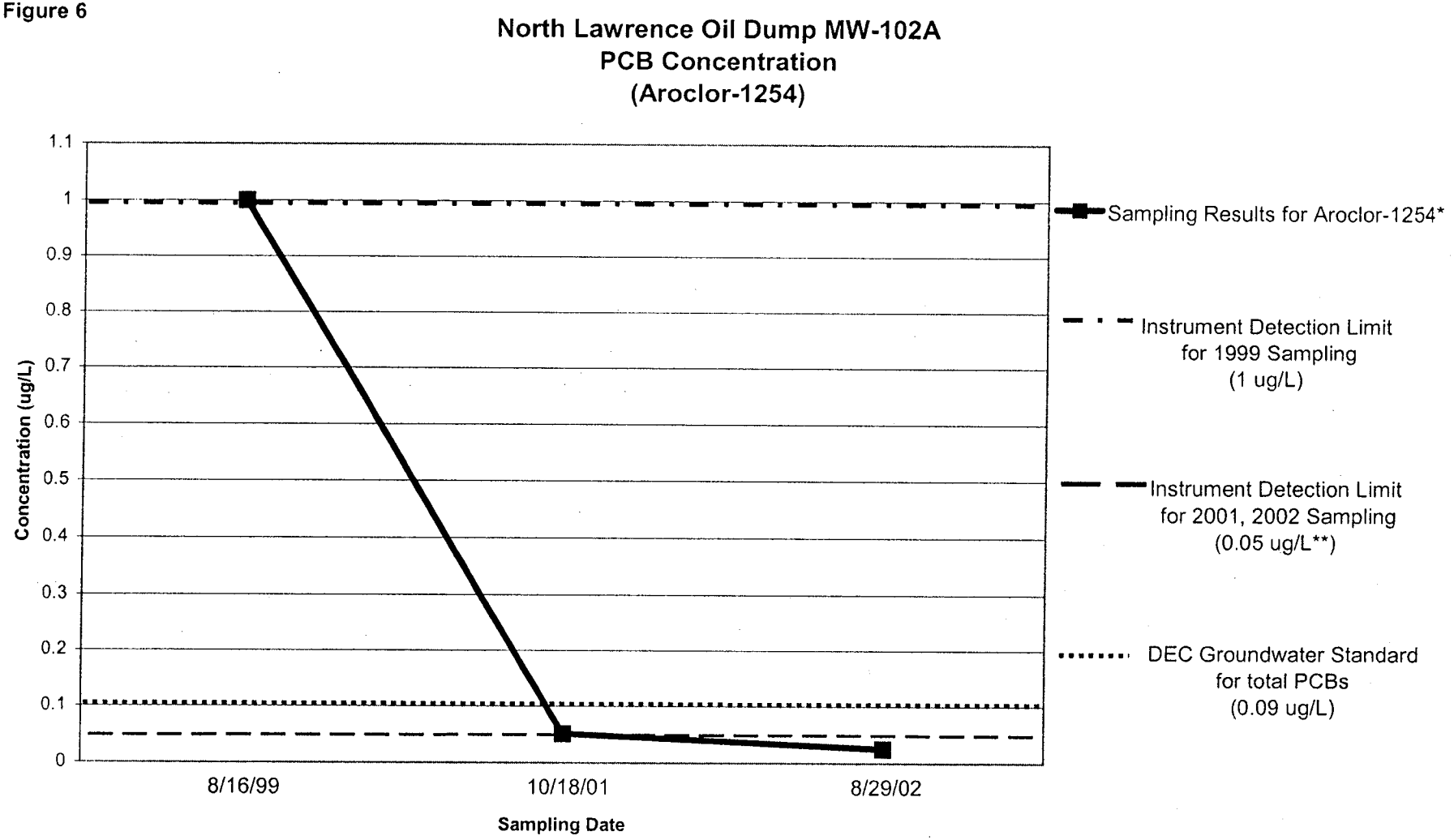
Figure 5



*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purpose of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.05 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 6

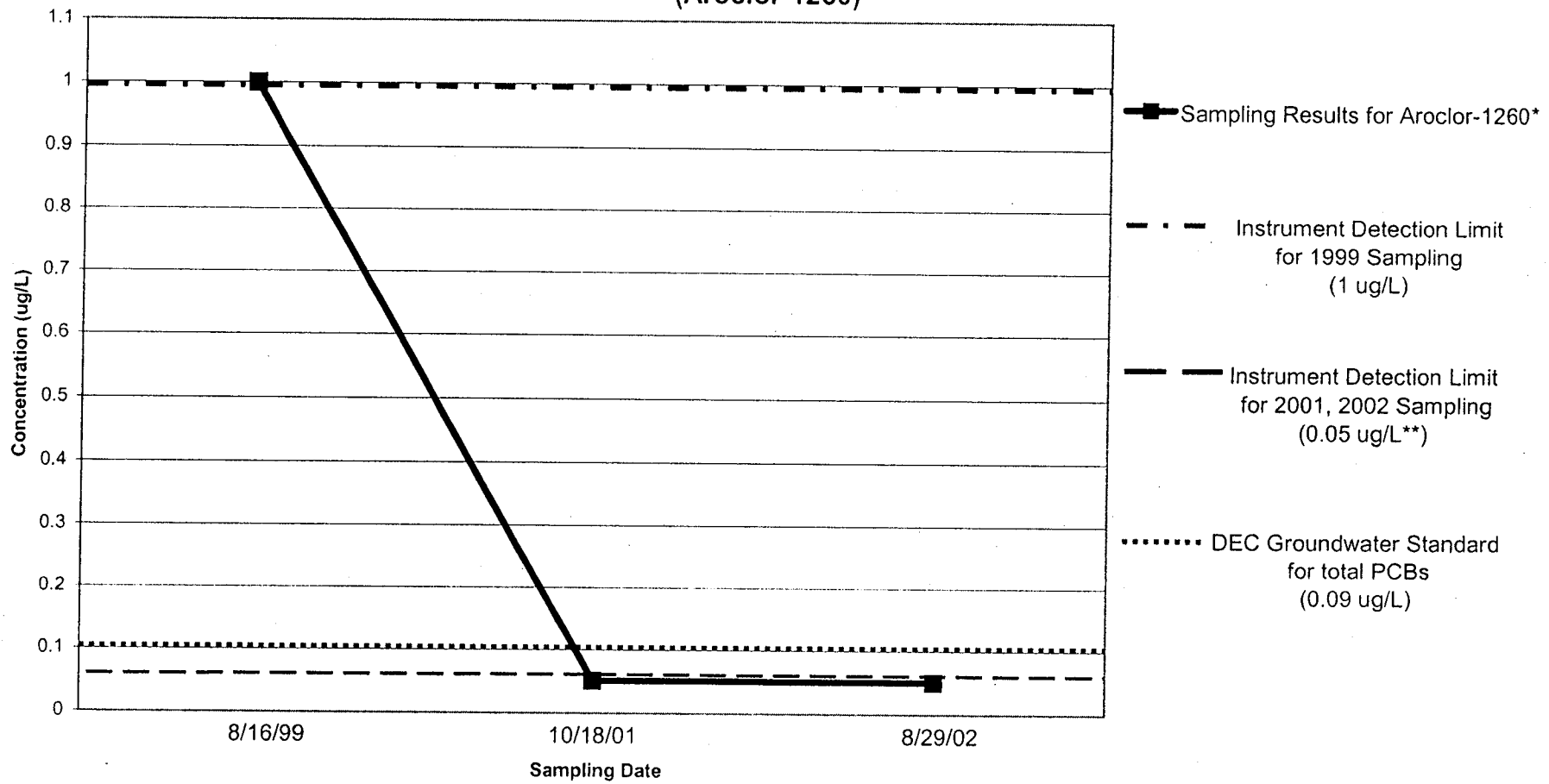


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The 2002 reported value is due to background contamination in the lab.

Figure 7

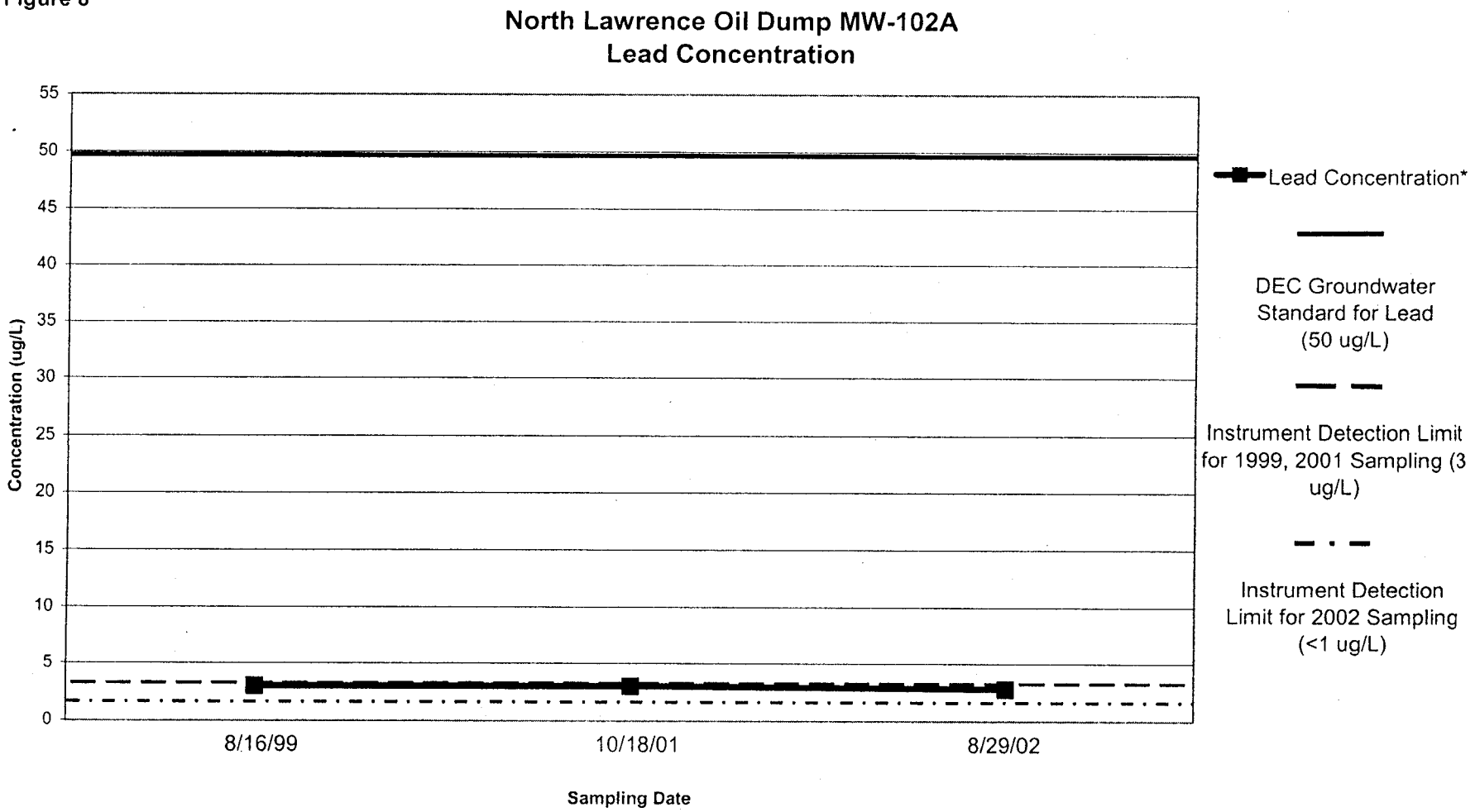
North Lawrence Oil Dump MW-102A
PCB Concentration
(Aroclor-1260)



*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.05 ug/L for 2002. The PCB was undetected based on these detection limits.

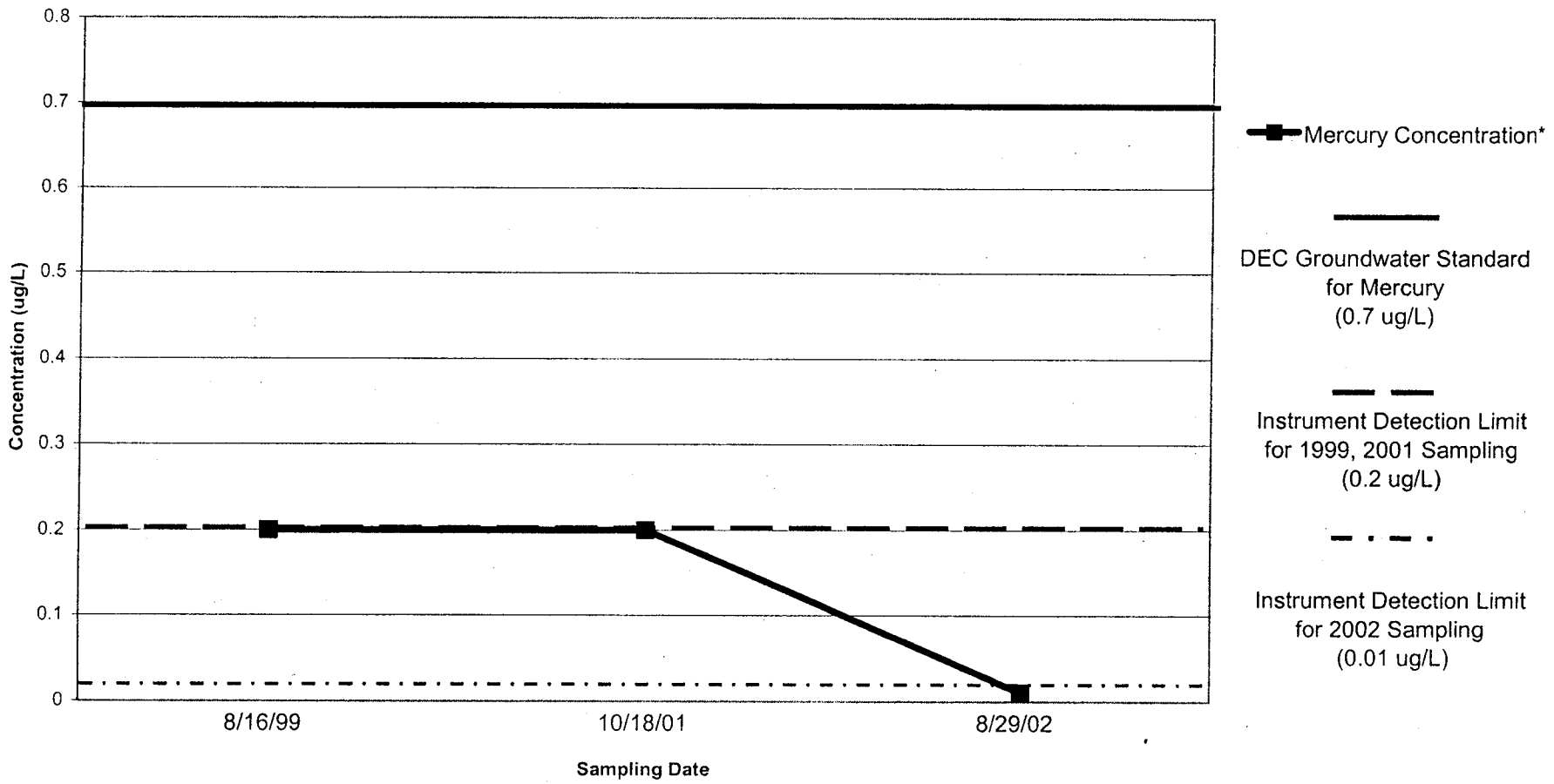
Figure 8



*Note: For 1999 and 2001 sampling, Lead was undetected in this well. For these sampling dates, the concentration of Lead is graphed as being the same as the instrument Detection Limit, however the concentration may be below the detection limit of the instruments. For 2002 sampling the Lead concentration was determined to be 2.8 ug/L. This value is less than the Contract Required Detection Limit but is greater than or equal to the Standard.

Figure 9

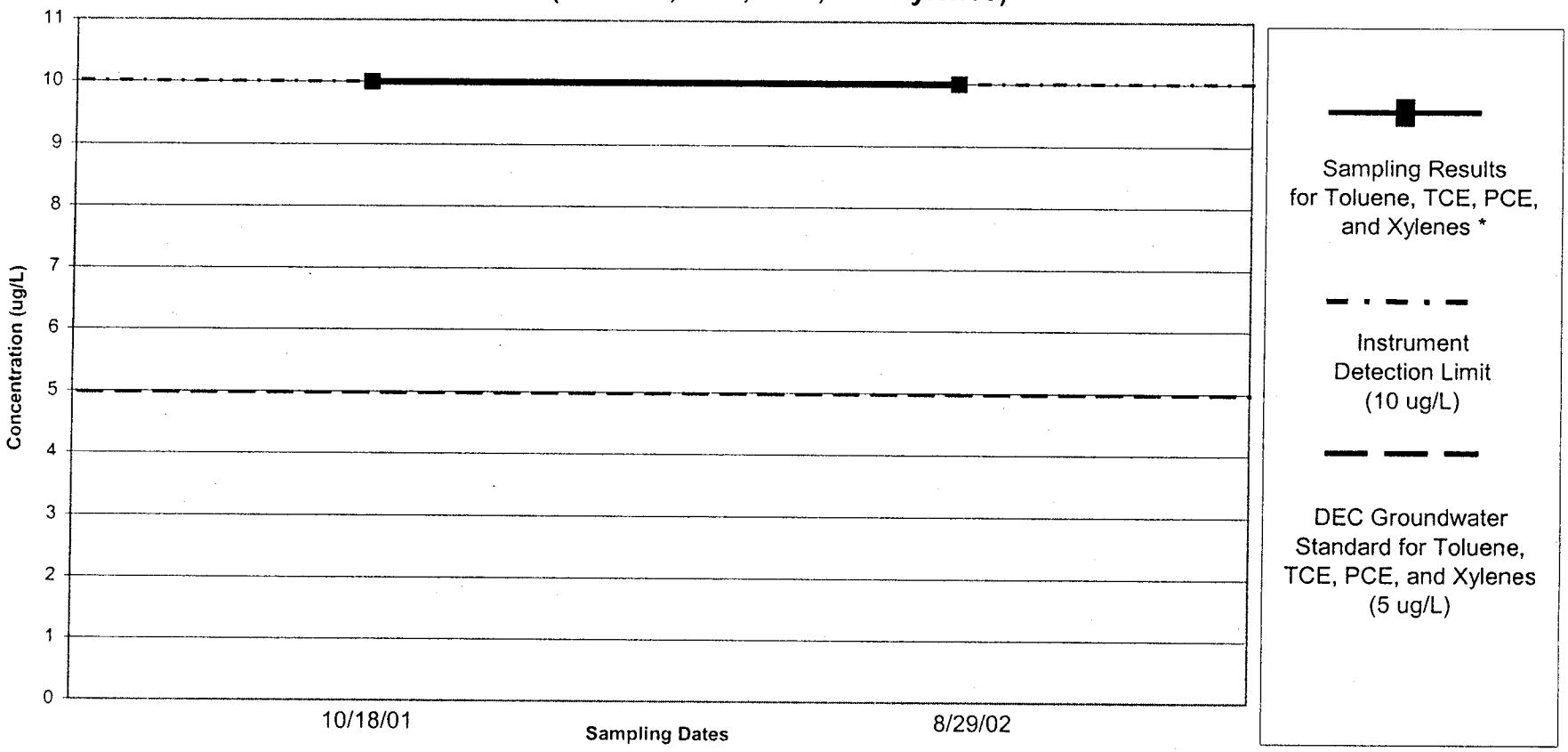
North Lawrence Oil Dump MW-102A
Mercury Concentration



*Note: For all sampling dates in question, Mercury was undetected in this well. The concentration of Mercury is graphed as being the same as the instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments. It is important to note that all of the Mercury concentrations are below the New York State Groundwater Standard.

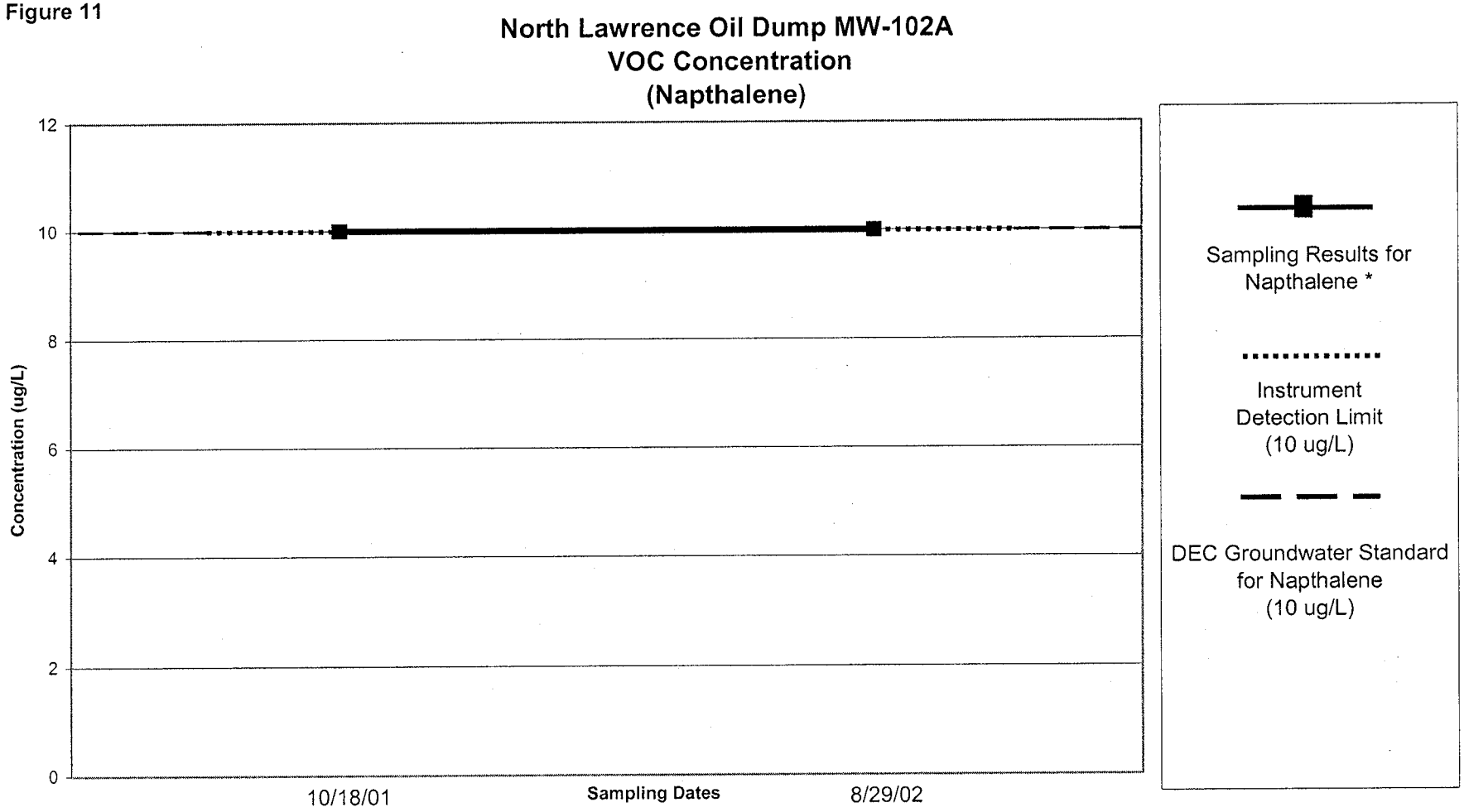
Figure 10

North Lawrence Oil Dump MW-102A
VOC Concentration
(Toluene, TCE, PCE, and Xylenes)



* Note: For all sampling dates in question, all individual VOC's were undetected in this well. The sampling results are graphed as being the same as the Instrument Detection Limit, however these results may be below the detection limit of the instruments. It is important to note that the New York State Groundwater Standard for each VOC of concern is less than the detection limit of the instruments.

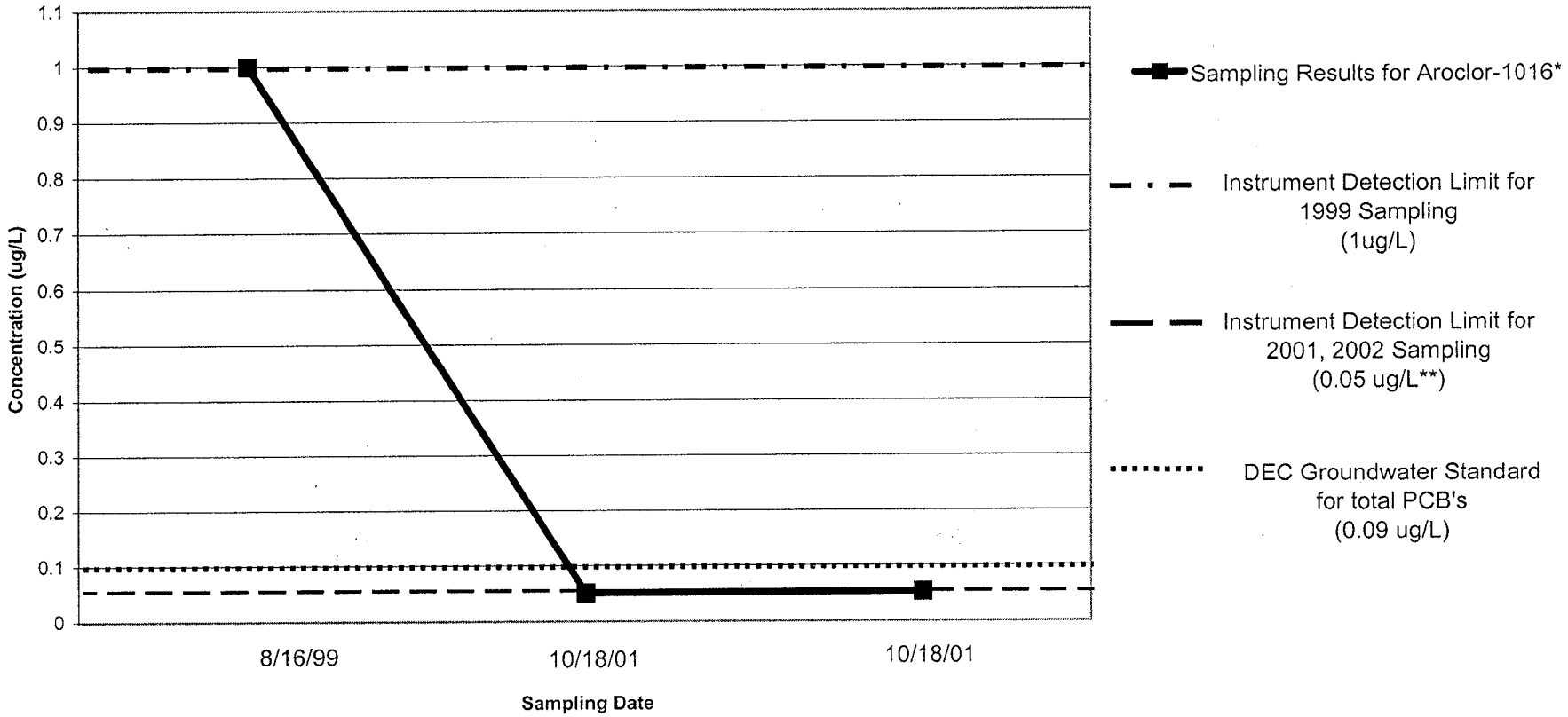
Figure 11



* Note: For all sampling dates in question, the VOC was undetected in this well. The sampling results are graphed as being the same as the Instrument Detection Limit, however these results may be below the detection limit of the instruments. It is important to note that the Instrument Detection Limit is the same as the New York State Groundwater Standard.

Figure 12

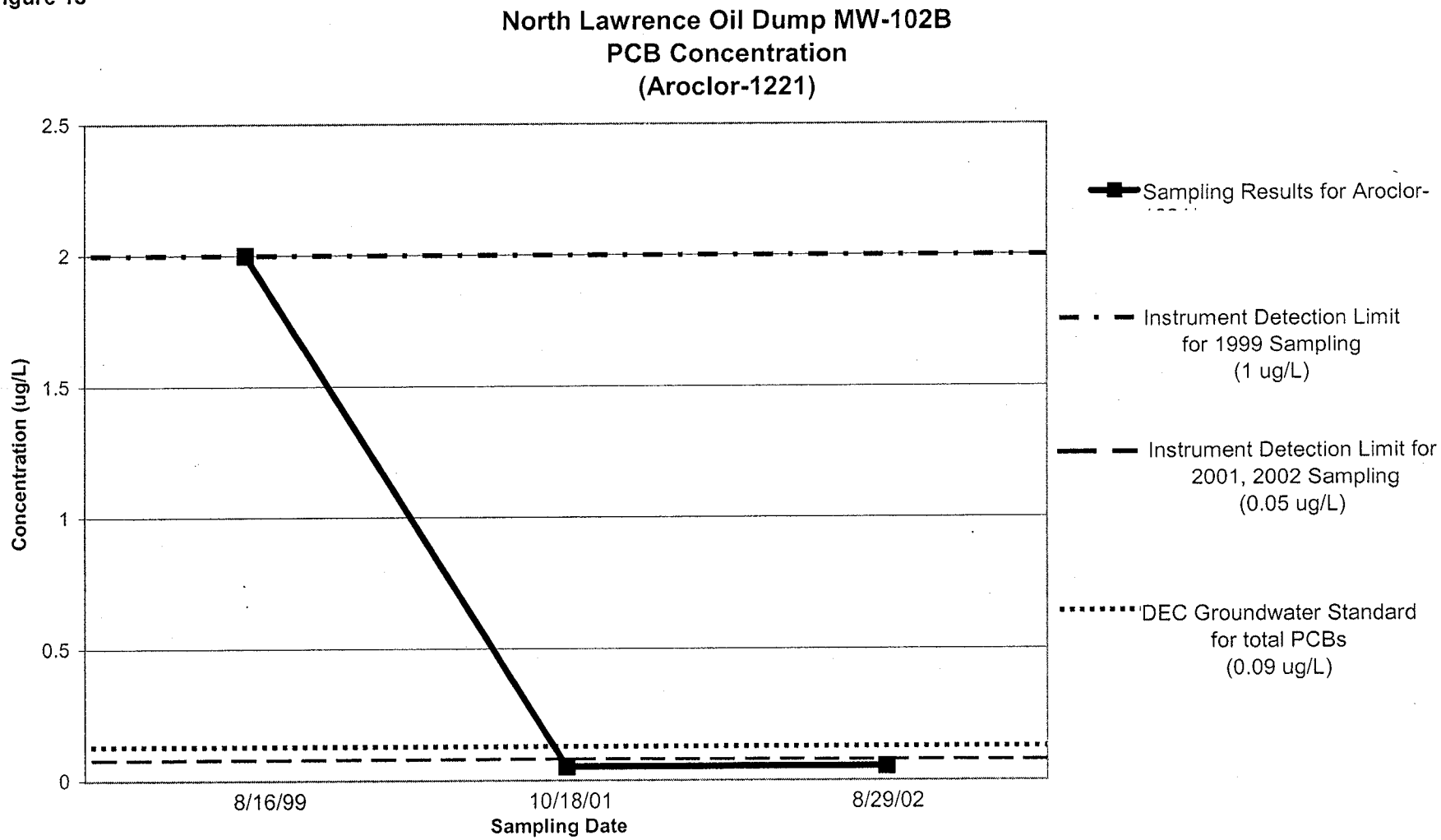
North Lawrence Oil Dump MW-102B
PCB Concentration
(Aroclor-1016)



*Note: For all sampling dates in question, this PCB was undeteced in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 13

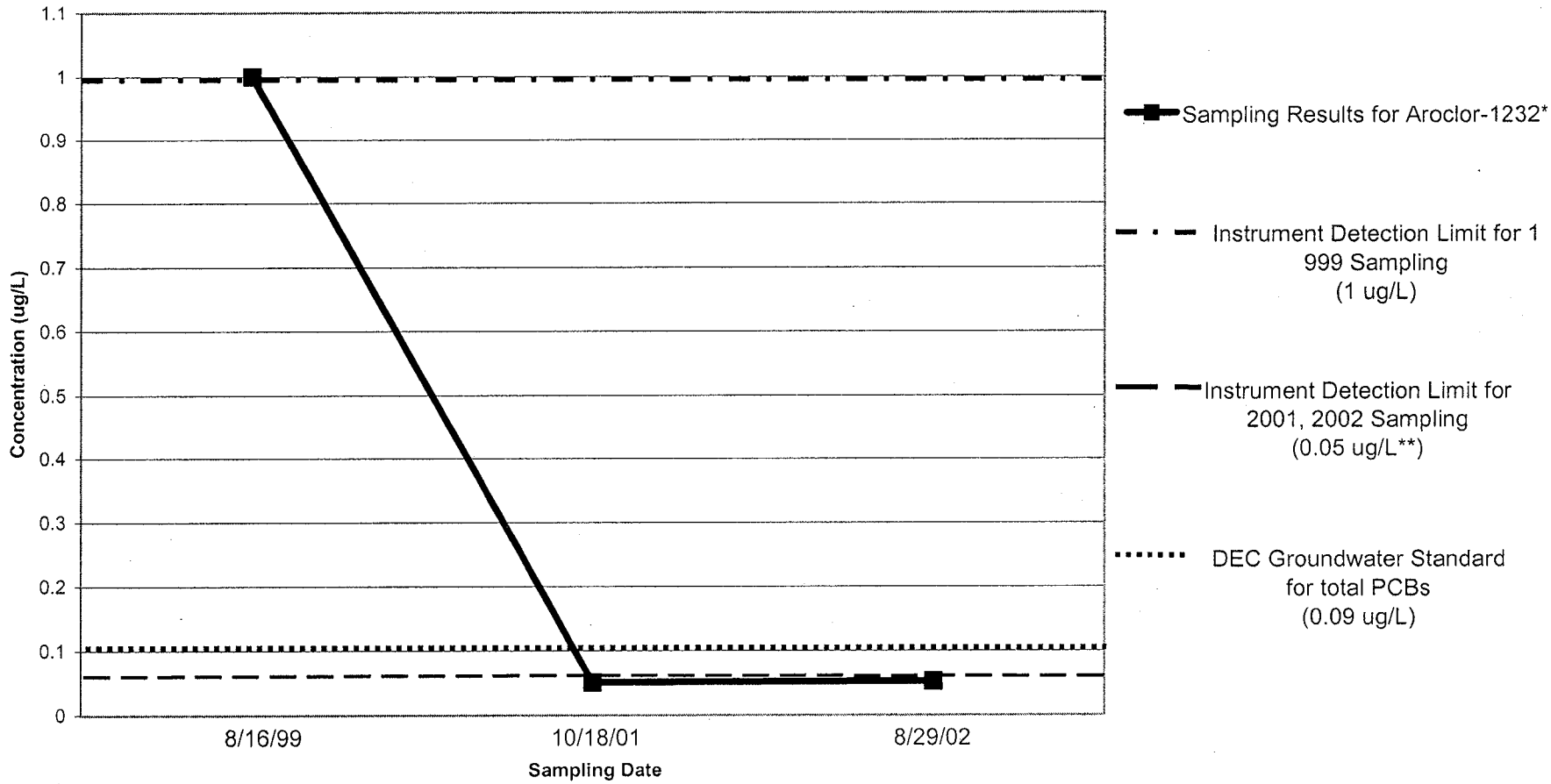


*Note: For the sampling dates in question, this PCB was undetected in this well. The concentration of the PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. This PCB was undetected based on these detection limits.

Figure 14

North Lawrence Oil Dump MW-102B
PCB Concentration
(Aroclor-1232)

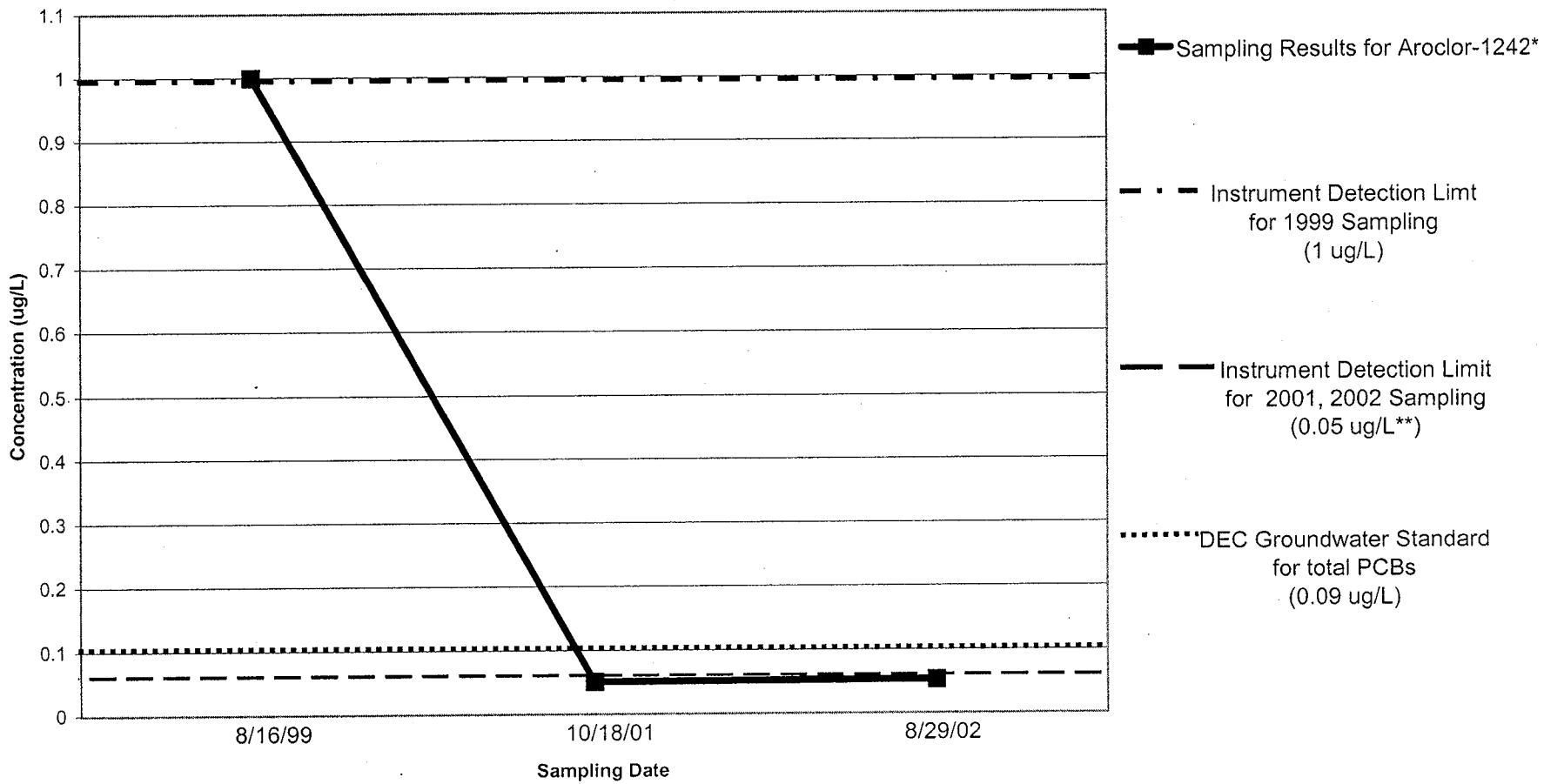


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 15

North Lawrence Oil Dump MW-102B
PCB Contamination
(Aroclor-1242)

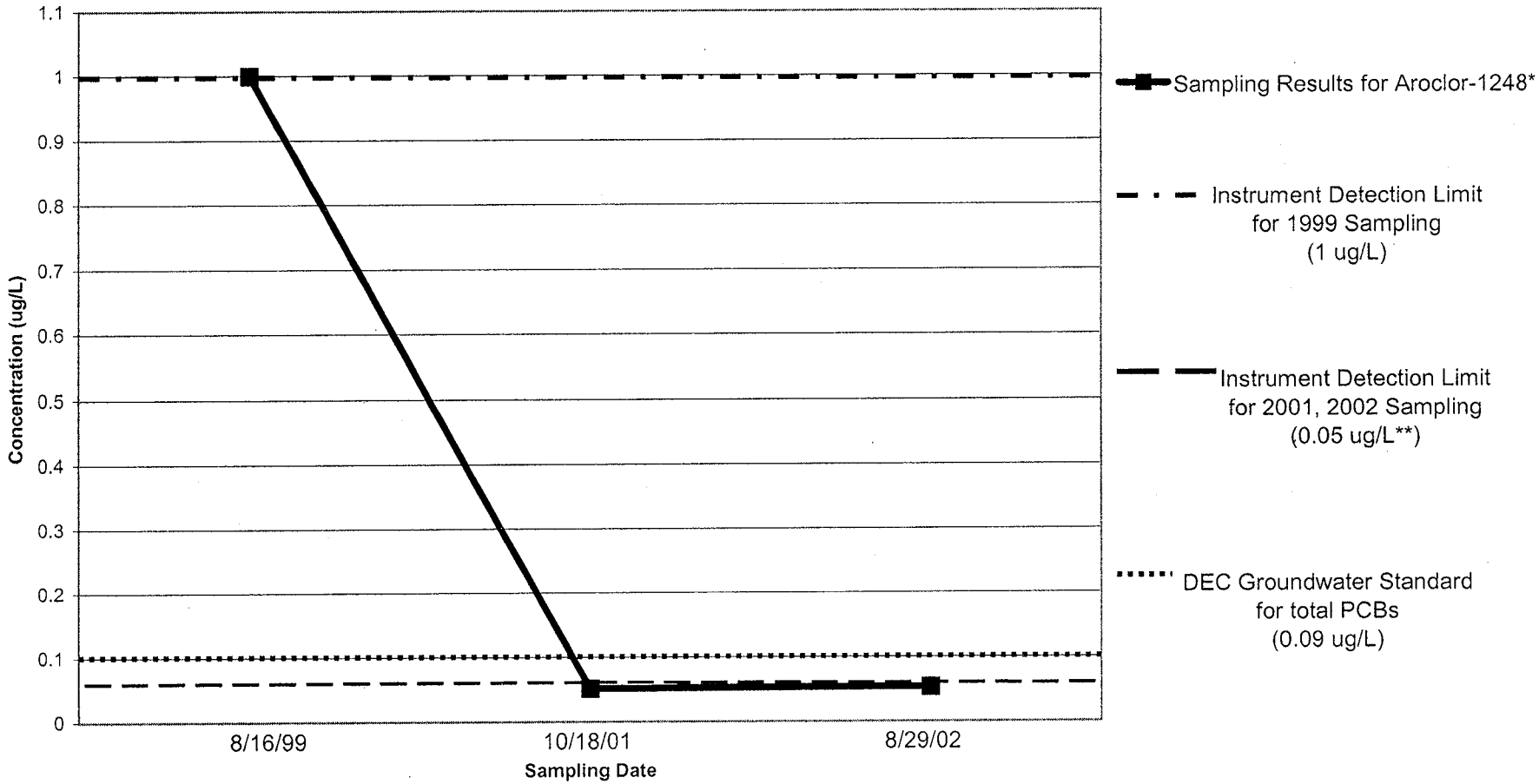


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on thesed detection limits.

Figure 16

North Lawrence Oil Dump MW-102B
PCB Concentration
(Aroclor-1248)

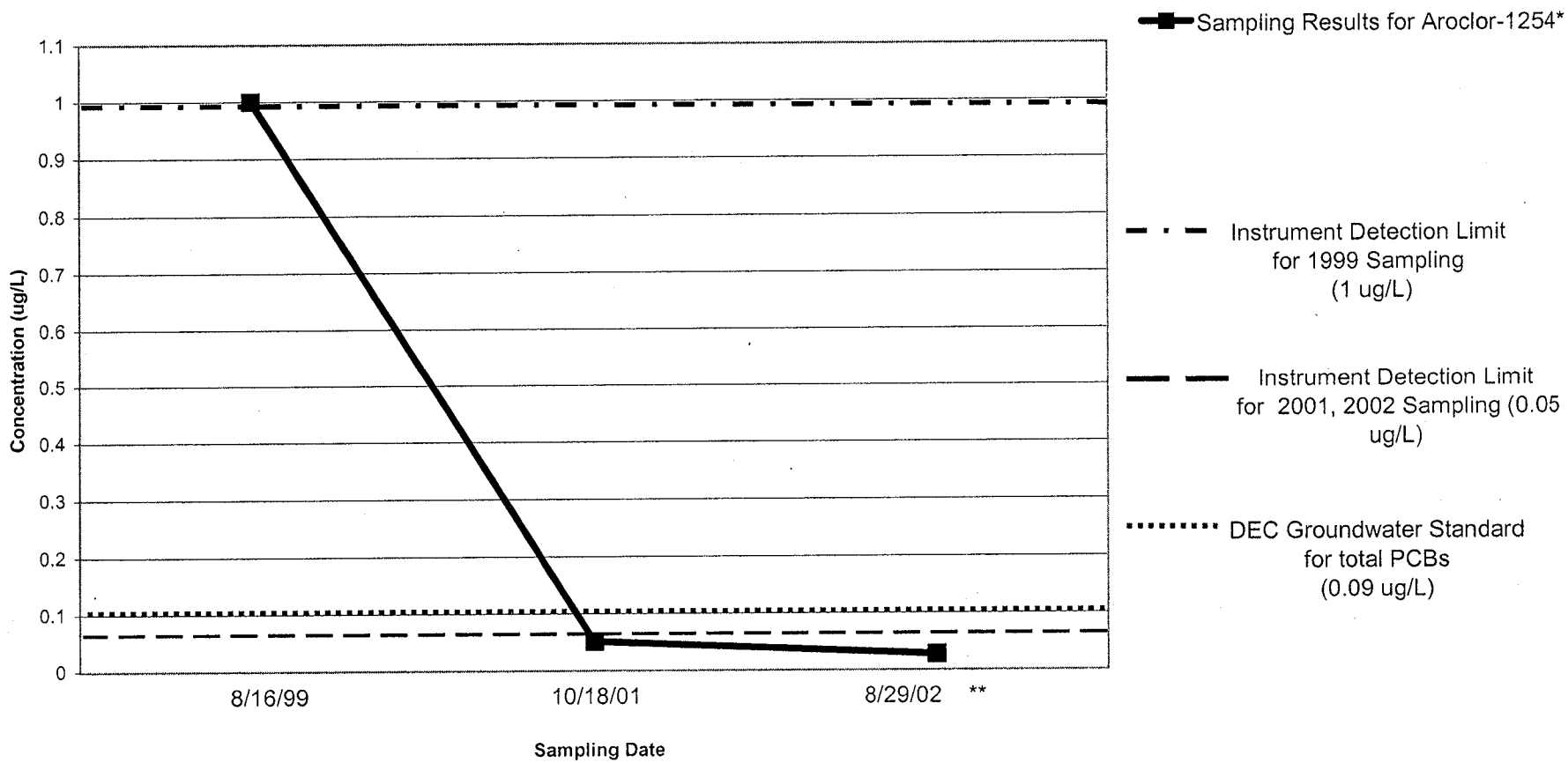


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purpose of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 17

North Lawrence Oil Dump MW-302
PCB Concentration
(Aroclor-1254)

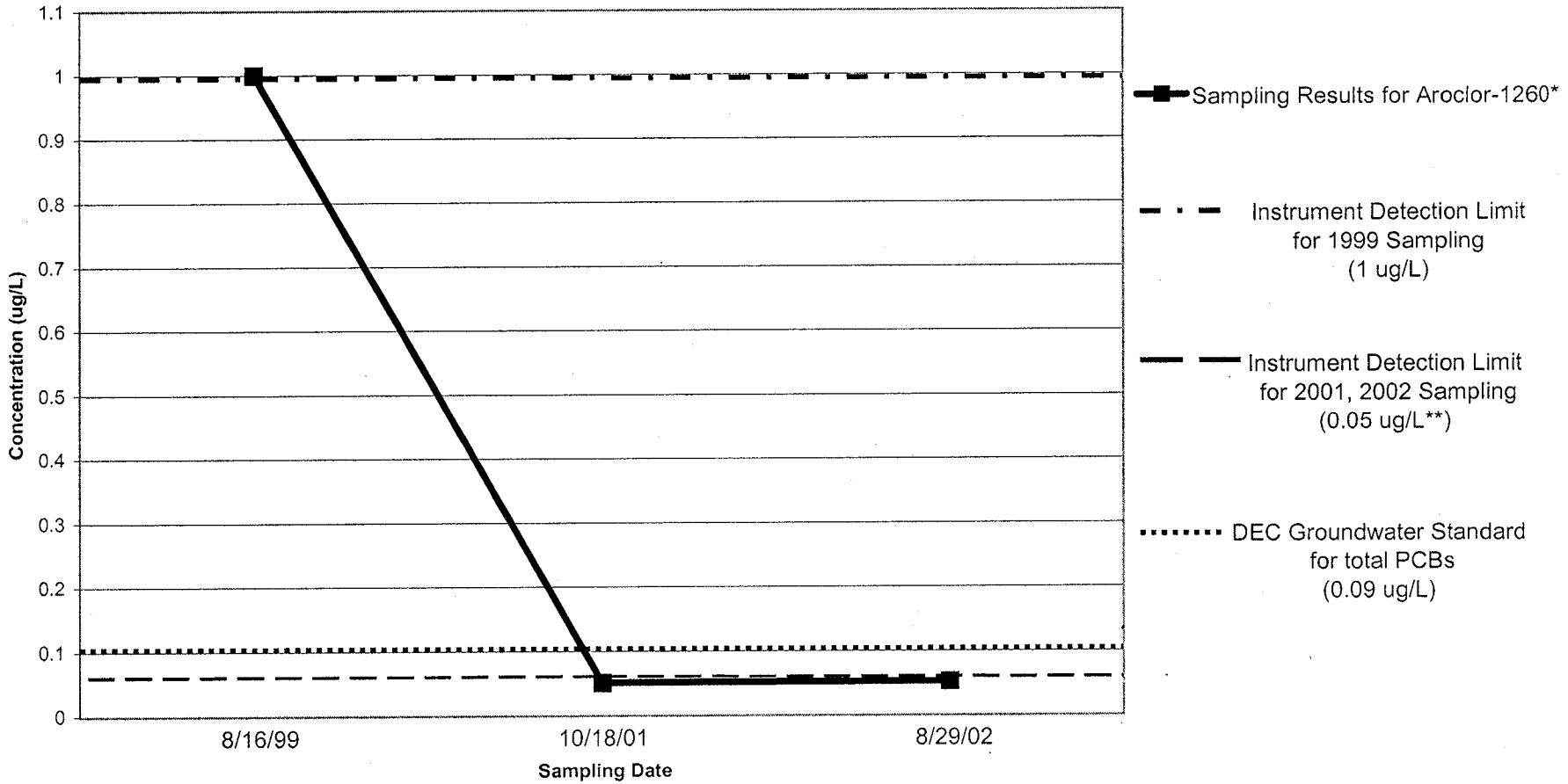


*Note: For the sampling dates in question, this PCB was undetected in this well. The concentration of the PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The 2002 reported value is due to background contamination in the lab.

Figure 18

North Lawrence Oil Dump MW-102B
PCB Concentration
(Aroclor-1260)

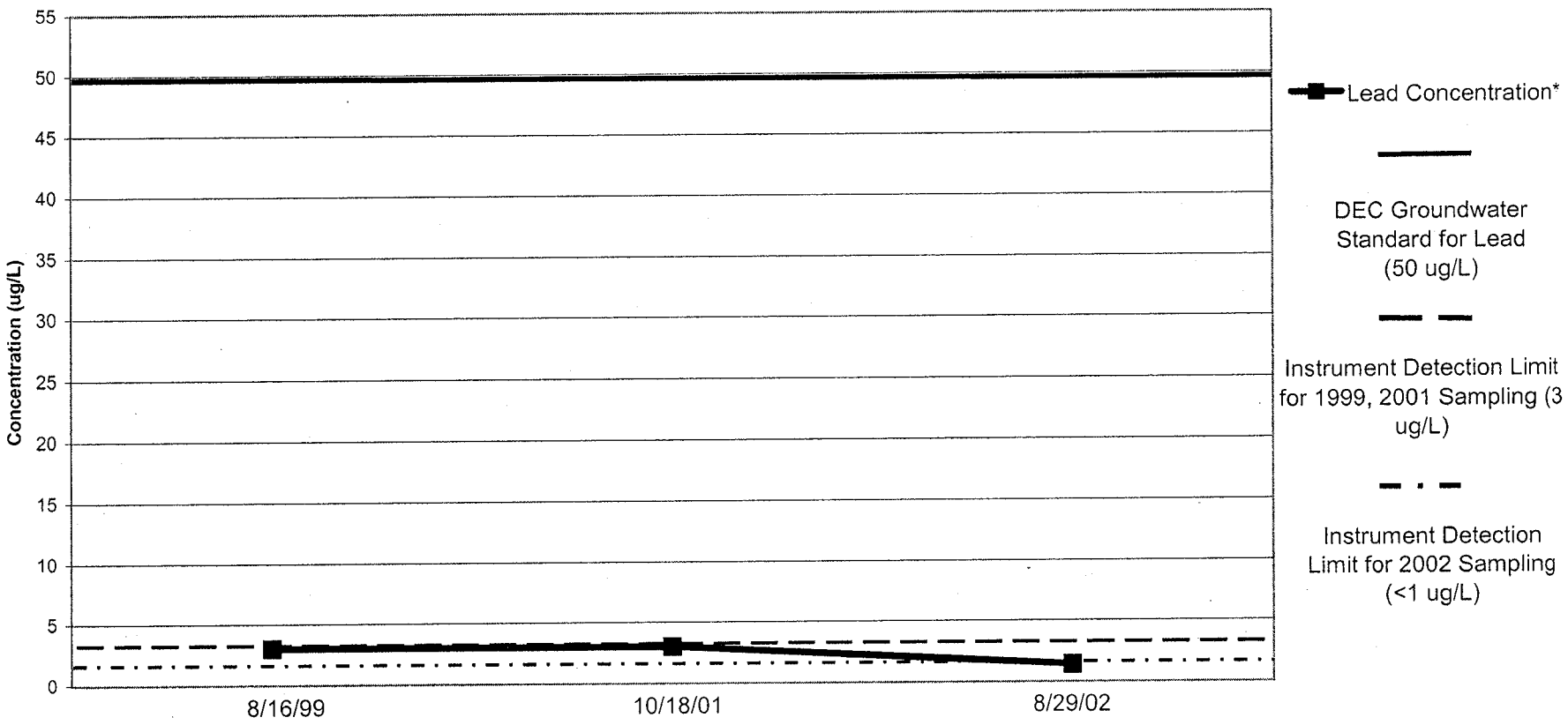


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 19

North Lawrence Oil Dump MW-102B
Lead Concentration

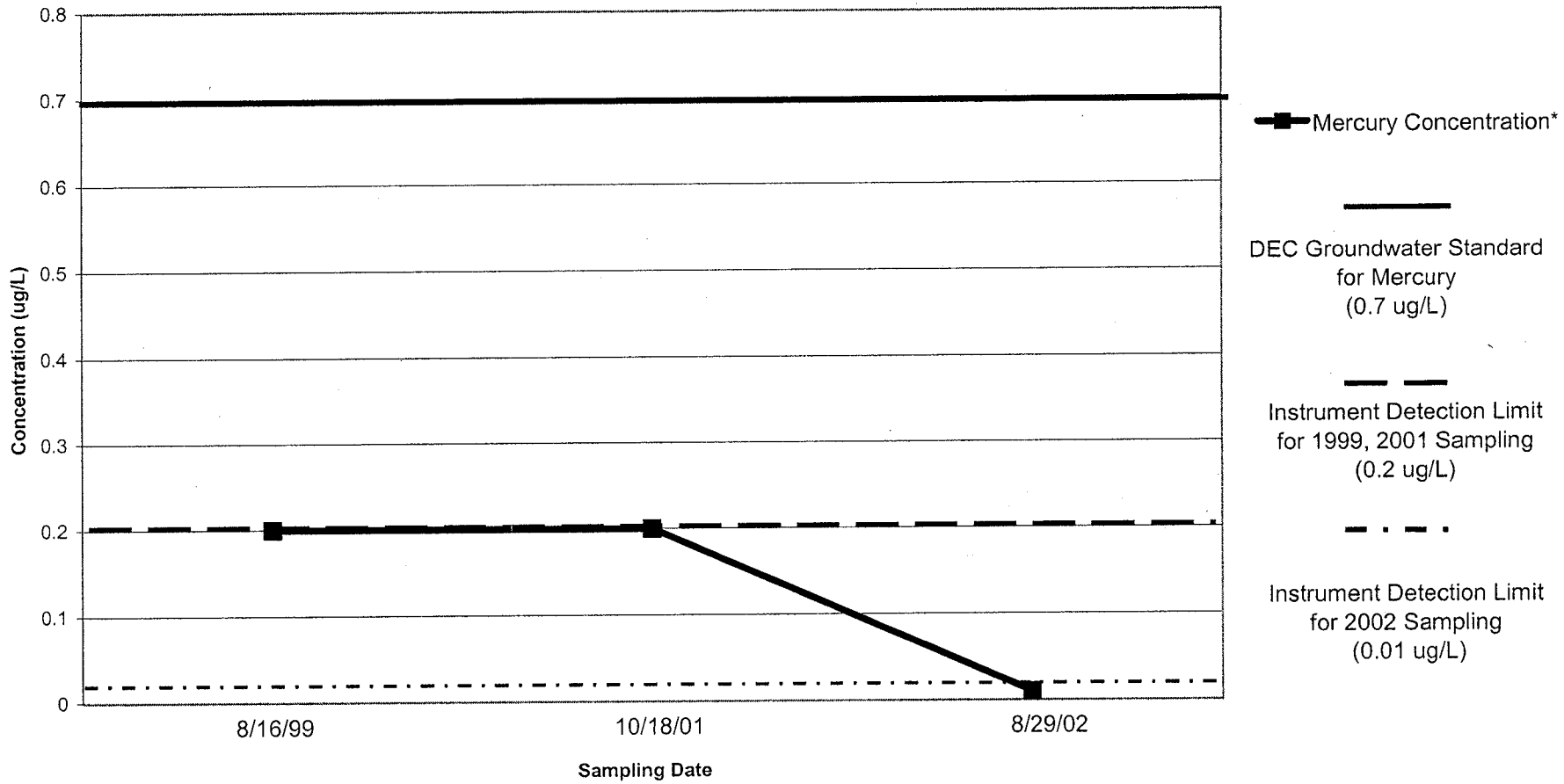


*Note: For 1999 and 2001 sampling, Lead was undetected in this well. For these sampling dates, the concentration of Lead is graphed as being the same as the instrument Detection Limit, however the concentration may be below the detection limit of the instruments. For 2002 sampling the Lead concentration was determined to be 1.4 ug/L. This value is less than the Contract Required Detection Limit but is greater than or equal to the

Standard.

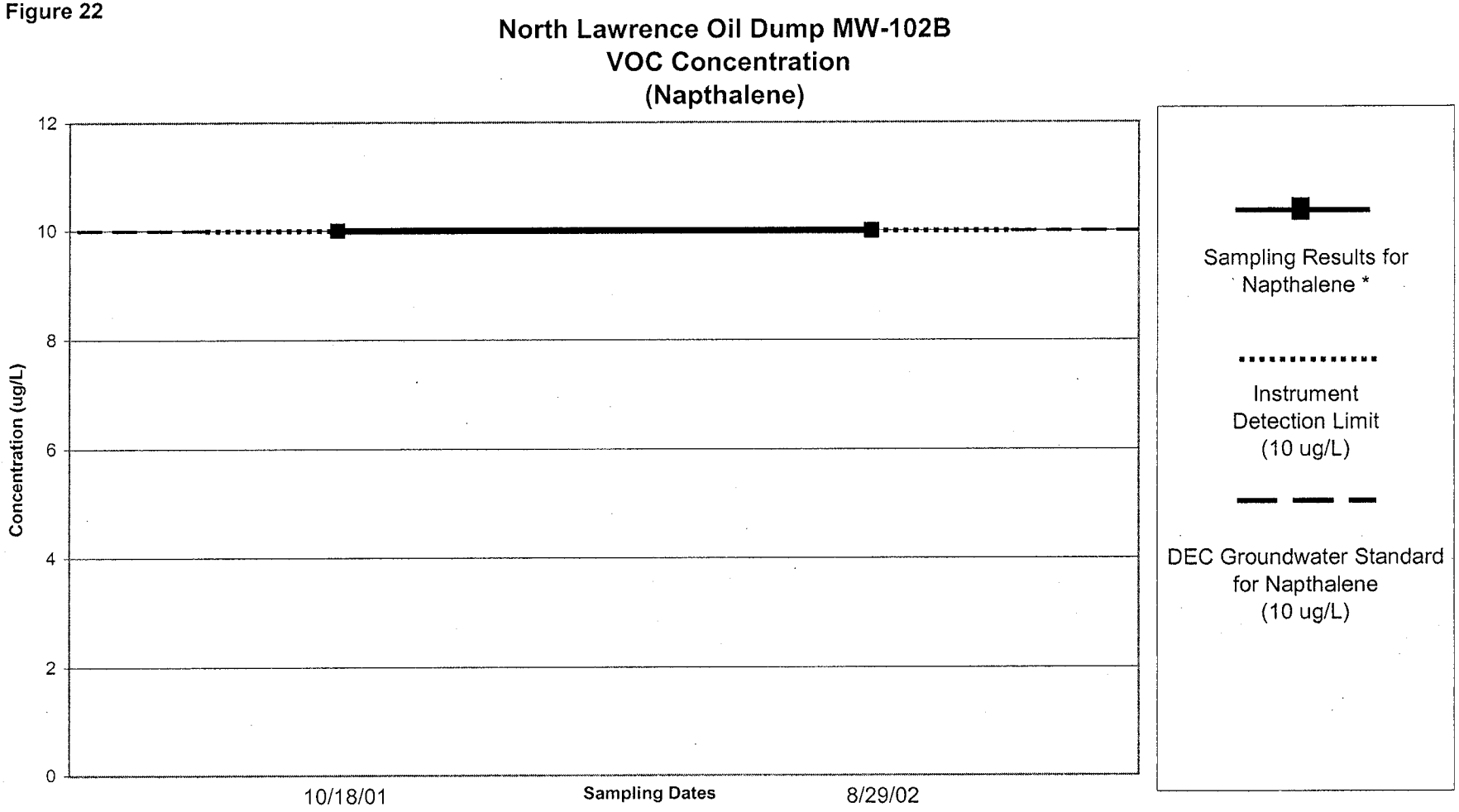
Figure 20

North Lawrence Oil Dump MW-102B
Mercury Concentration



*Note: For all sampling dates in question, Mercury was undetected in this well. The concentration of Mercury is graphed as being the same as the instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments. It is important to note that all of the Mercury concentrations are below the New York State Groundwater Standard.

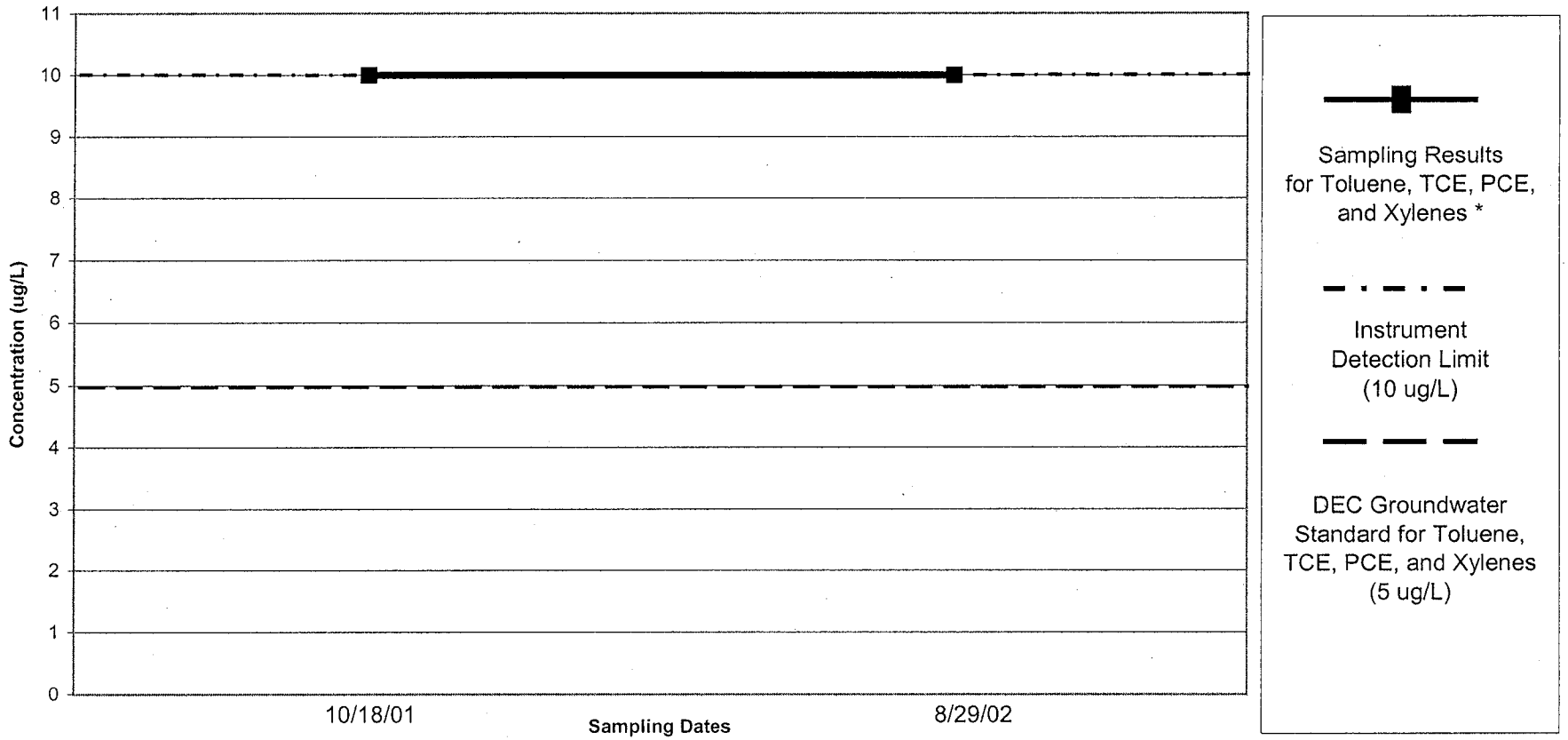
Figure 22



* Note: For all sampling dates in question, the VOC was undetected in this well. The sampling results are graphed as being the same as the Instrument Detection Limit, however these results may be below the detection limit of the instruments. It is important to note that the Instrument Detection Limit is the same as the New York State Groundwater Standard.

Figure 21

North Lawrence Oil Dump MW-102B
VOC Concentration
(Toluene, TCE, PCE, and Xylenes)



* Note: For all sampling dates in question, all individual VOC's were undetected in this well. The sampling results are graphed as being the same as the Instrument Detection Limit, however these results may be below the detection limit of the instruments. It is important to note that the New York State Groundwater Standard for each VOC of concern is less than the detection limit of the instruments.

North Lawrence Oil Dump
Site # 645013
MW - 301
1999 sample # : A315 - 05
2001 sample # : LAW - 301
2002 sample # : A315 - 301

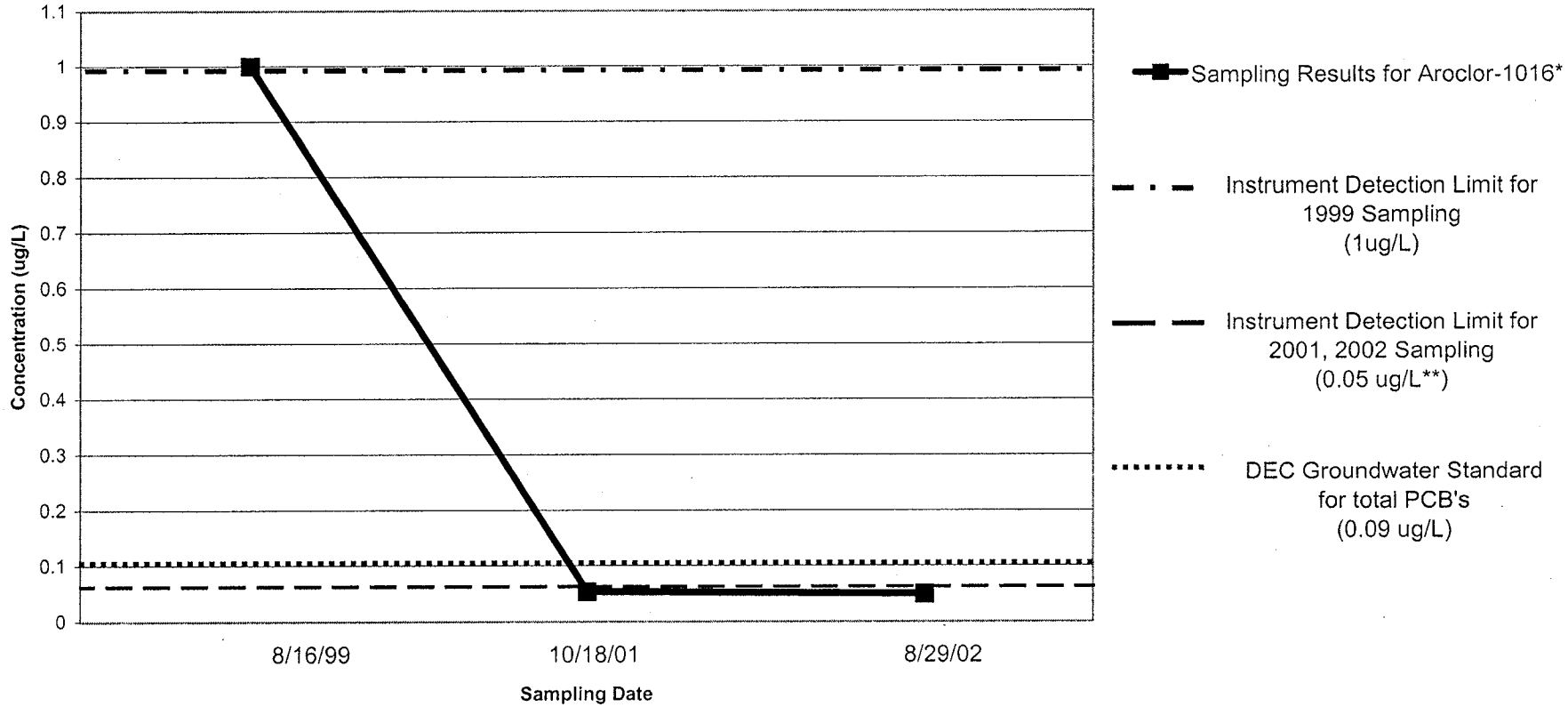
Contaminent (PCB)	DEC Groundwater Standard (ug/L) *	1999 Concentration (ug/L)	Q	2001 Concentration (ug/L)	Q	2002 Concentration (ug/L)	Q
Aroclor - 1016	0.09	1	U	0.054	U	0.05	U
Aroclor - 1221	0.09	2	U	0.054	U	0.05	U
Aroclor - 1232	0.09	1	U	0.054	U	0.05	U
Aroclor - 1242	0.09	1	U	0.054	U	0.05	U
Aroclor - 1248	0.09	1	U	0.054	U	0.05	U
Aroclor - 1254	0.09	1	U	0.054	U	0.024	JB
Aroclor - 1260	0.09	1	U	0.054	U	0.05	U

U - The compound was not detected.
J - The compound quanitation was less than the sample quanitation limit, but was greater than zero. The reported value is an estimated value.
B - The compound was found in the extraction prep blank. Thus the reported value is due to background contamination in the lab.
* Note: 0.09 ug/L is the DEC Groundwater Standard for the sum of all Polychlorinated Biphenyls (PCB's).

1999 data came from lab reports from ChemTech Consulting Group.
2001 data came from lab reports from the DEC Lab.
2002 data came from lab reports from Columbia Analytical Services.

Figure 23

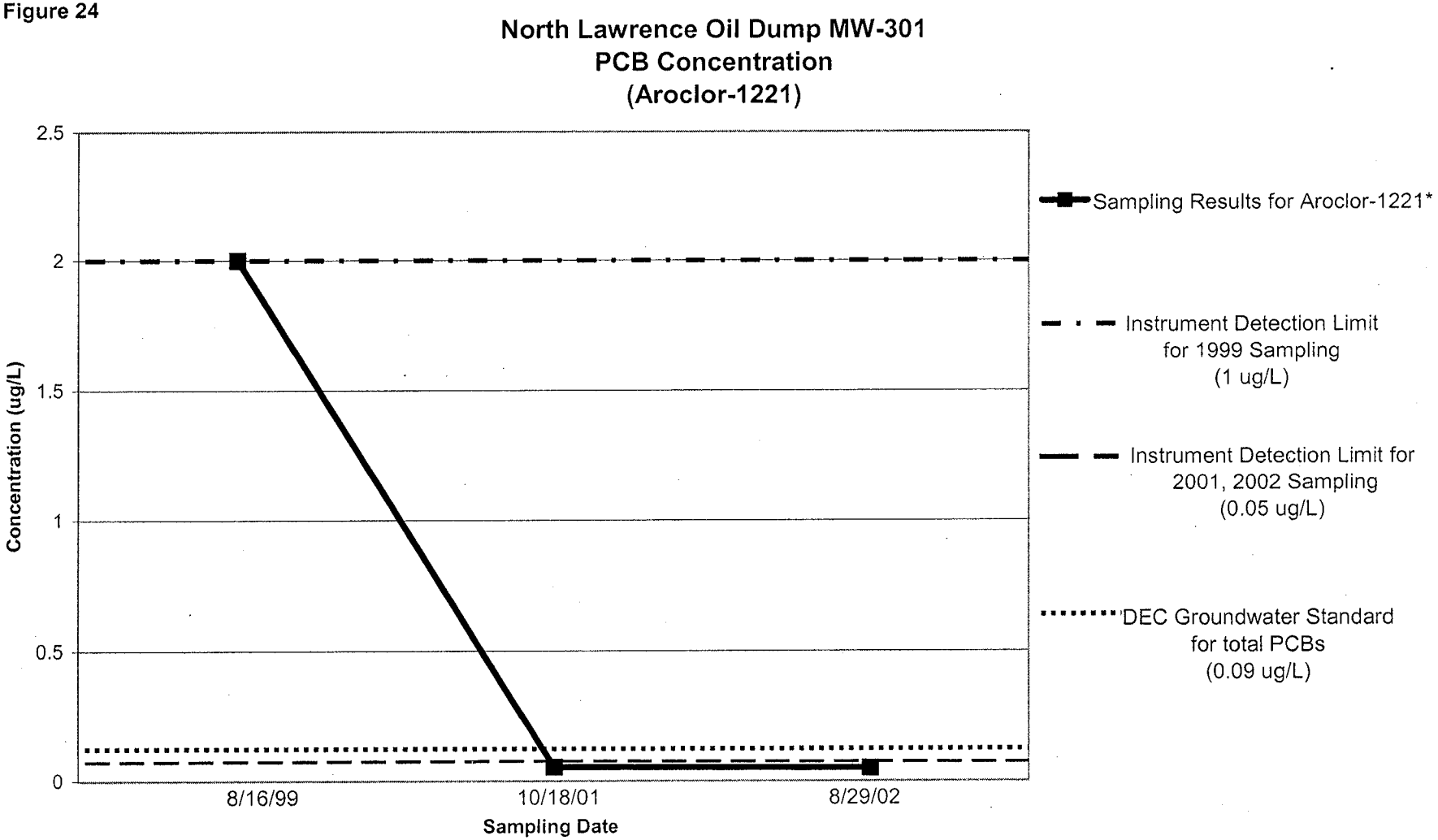
North Lawrence Oil Dump MW-301
PCB Concentration
(Aroclor-1016)



*Note: For all sampling dates in question, this PCB was undeteced in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.054 ug/L, and was 0.05 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 24

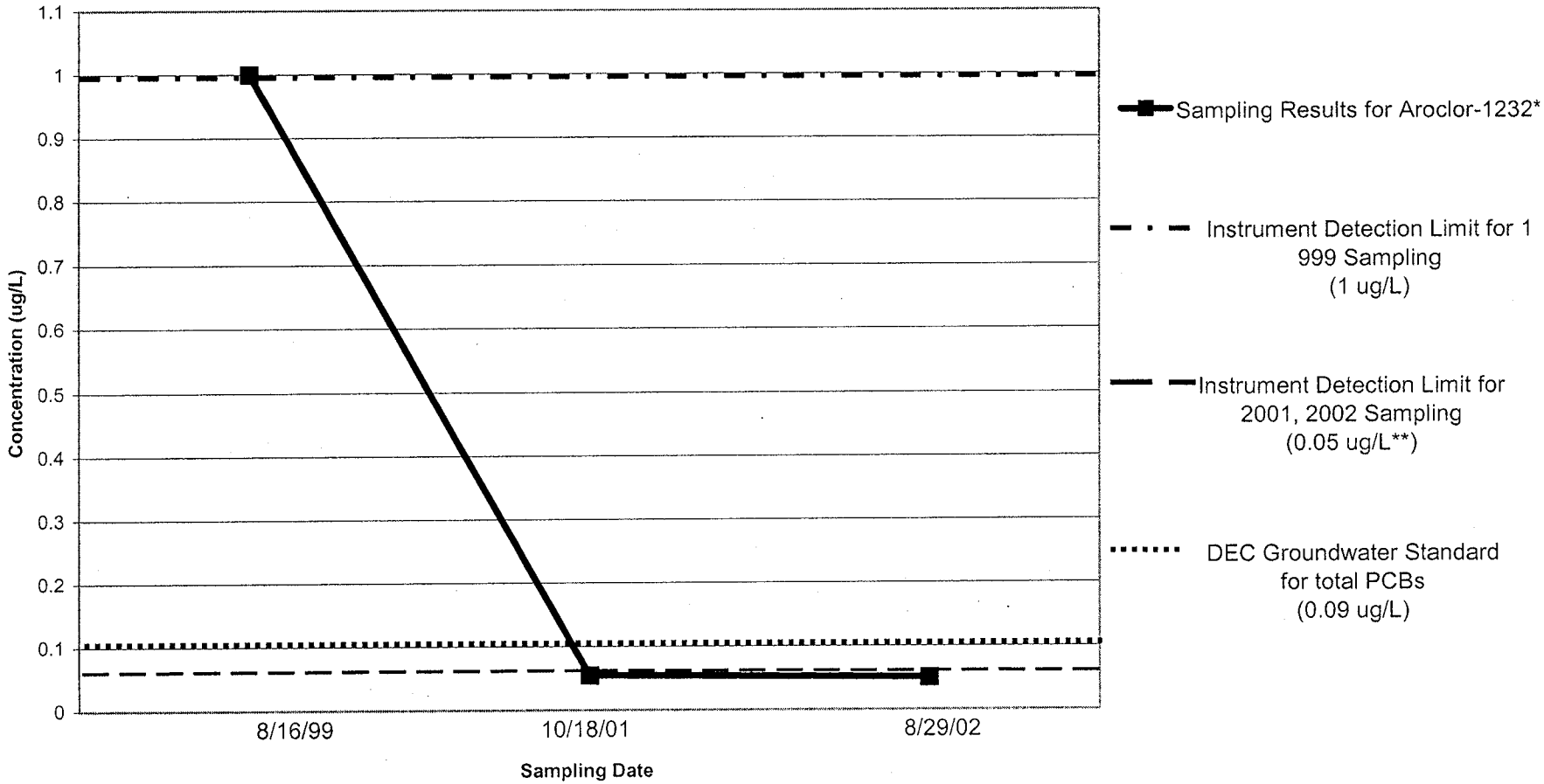


*Note: For the sampling dates in question, this PCB was undetected in this well. The concentration of the PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.054 ug/L, and was 0.05 ug/L for 2002. This PCB was undetected based on these detection limits.

Figure 25

North Lawrence Oil Dump MW-301
PCB Concentration
(Aroclor-1232)

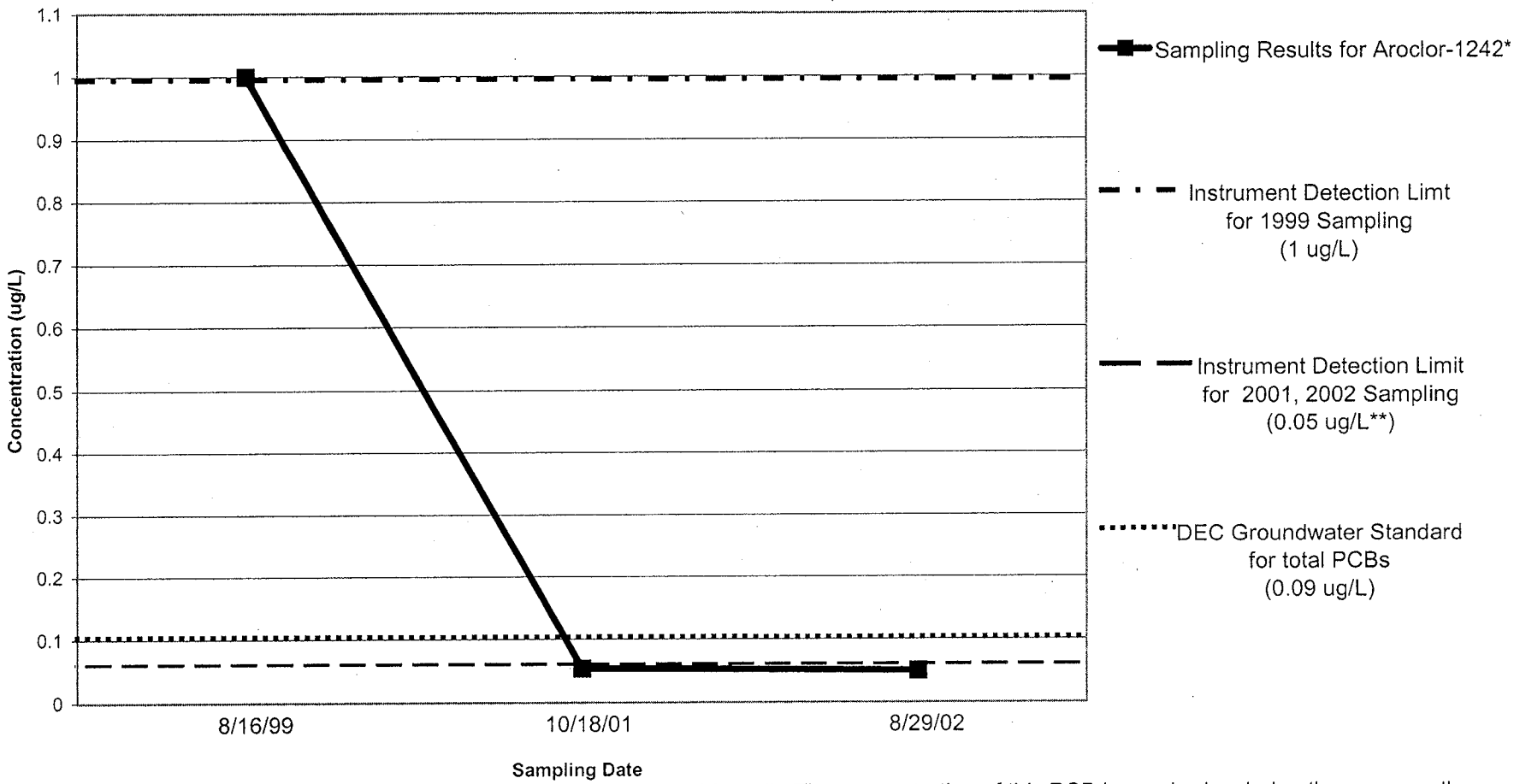


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.054 ug/L, and was 0.05 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 26

North Lawrence Oil Dump MW-301
PCB Contamination
(Aroclor-1242)

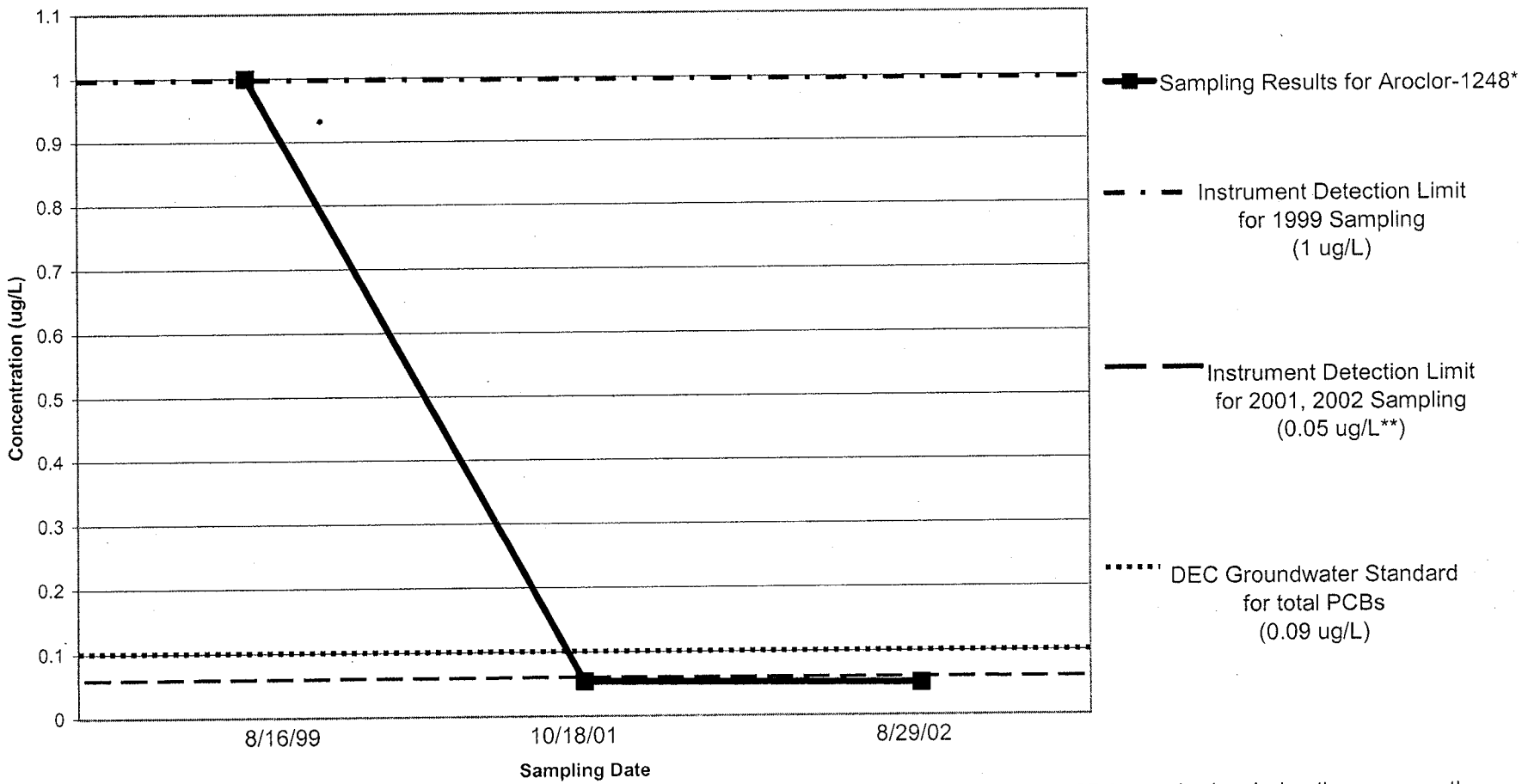


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.054 ug/L, and was 0.05 ug/L for 2002. The PCB was undetected based on thesed detection limits.

Figure 27

North Lawrence Oil Dump MW-301
PCB Concentration
(Aroclor-1248)

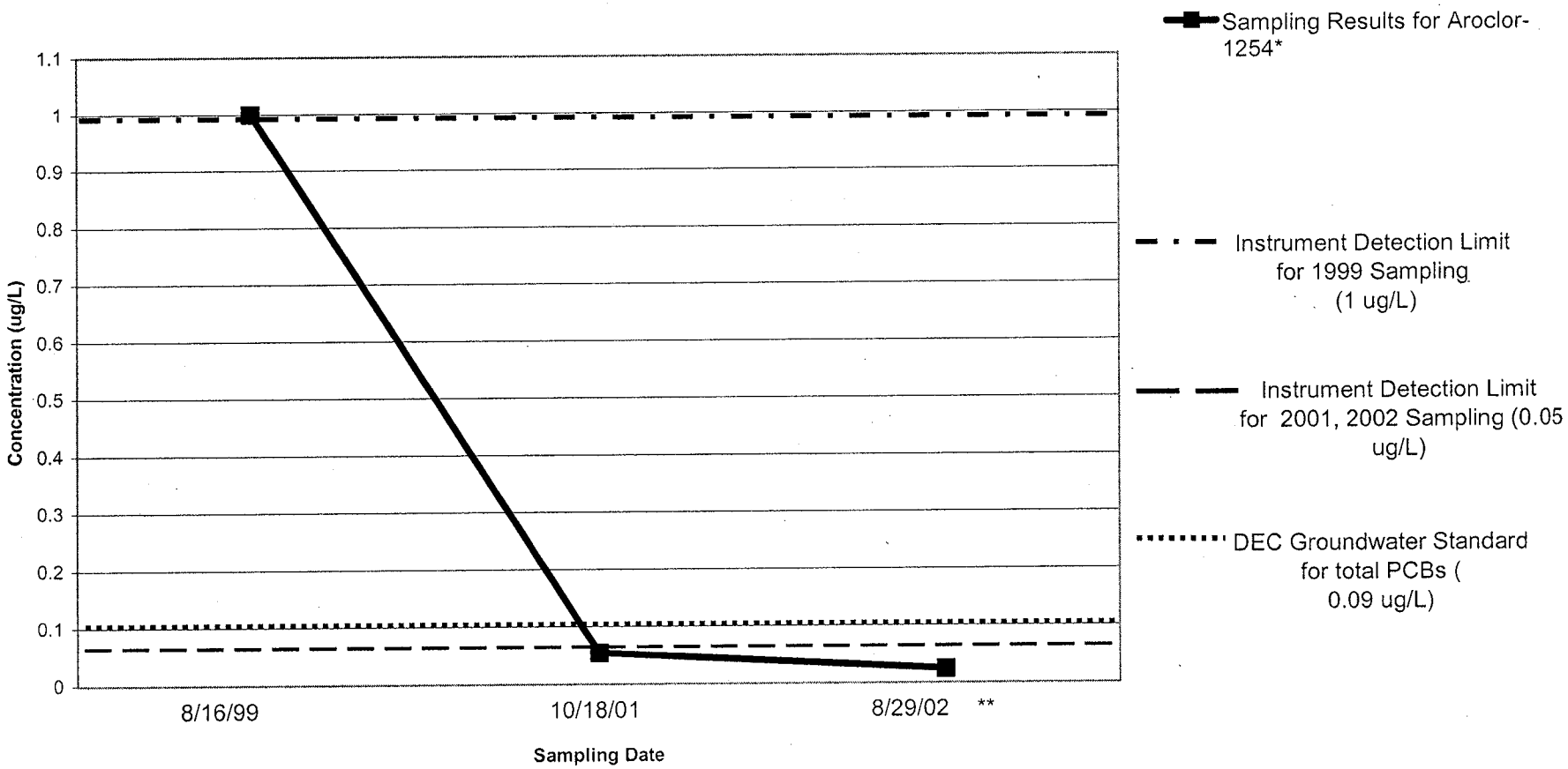


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purpose of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.054 ug/L, and was 0.05 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 28

North Lawrence Oil Dump MW-301
PCB Concentration
(Aroclor-1254)

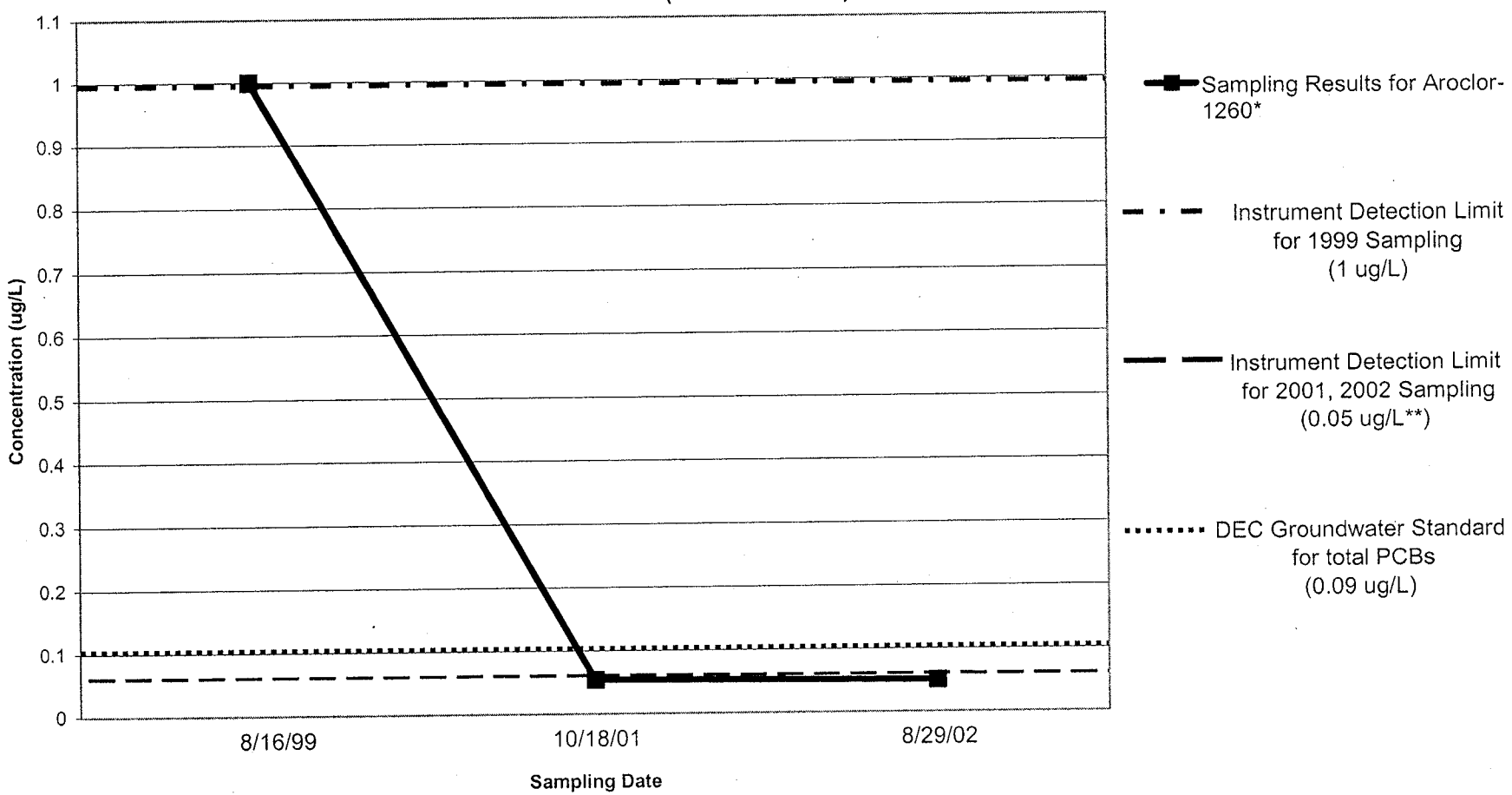


*Note: For the sampling dates in question, this PCB was undetected in this well. The concentration of the PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The 2002 reported value is due to background contamination in the lab.

Figure 29

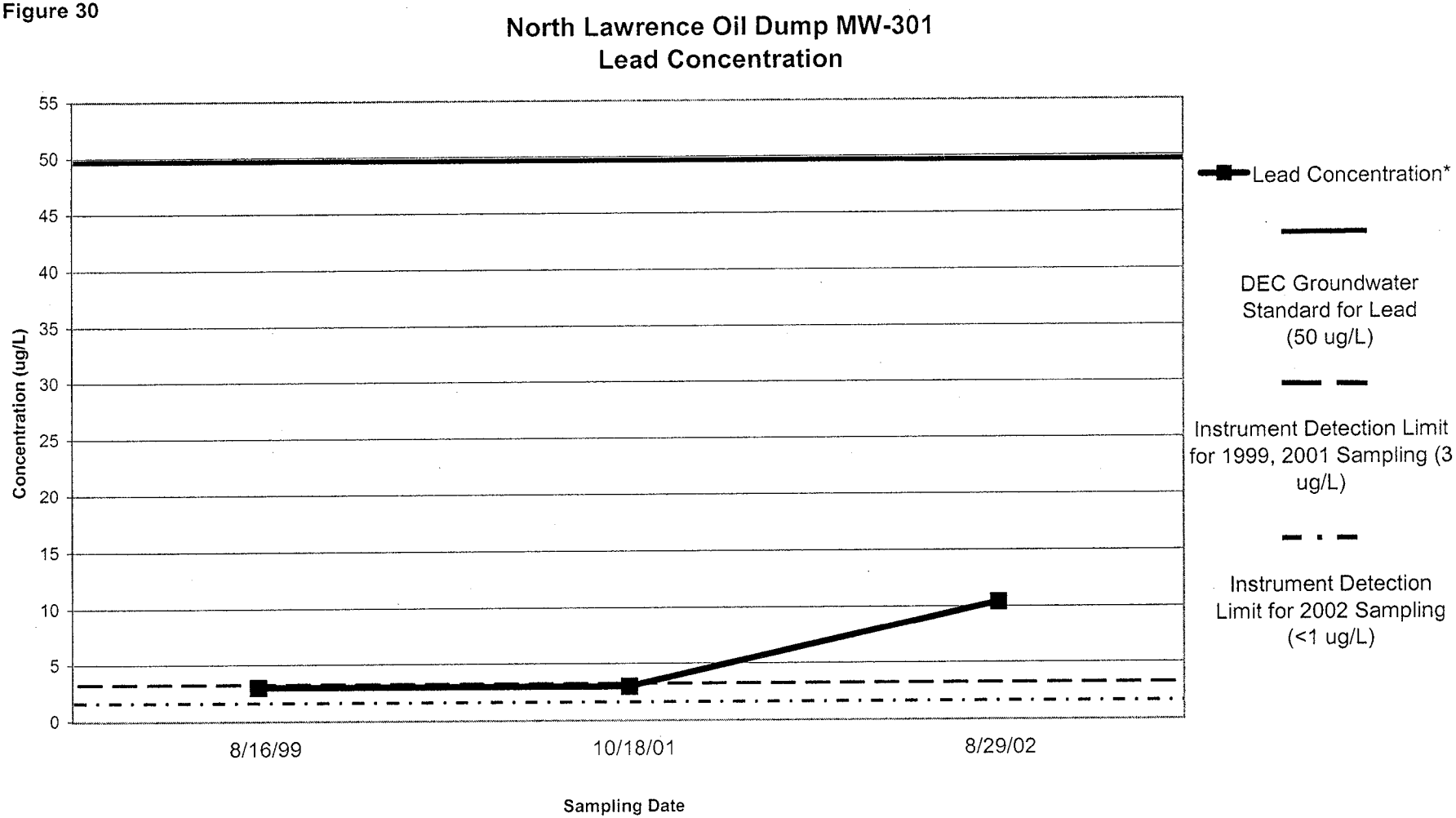
North Lawrence Oil Dump MW-301
PCB Concentration
(Aroclor-1260)



*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.054 ug/L, and was 0.05 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 30

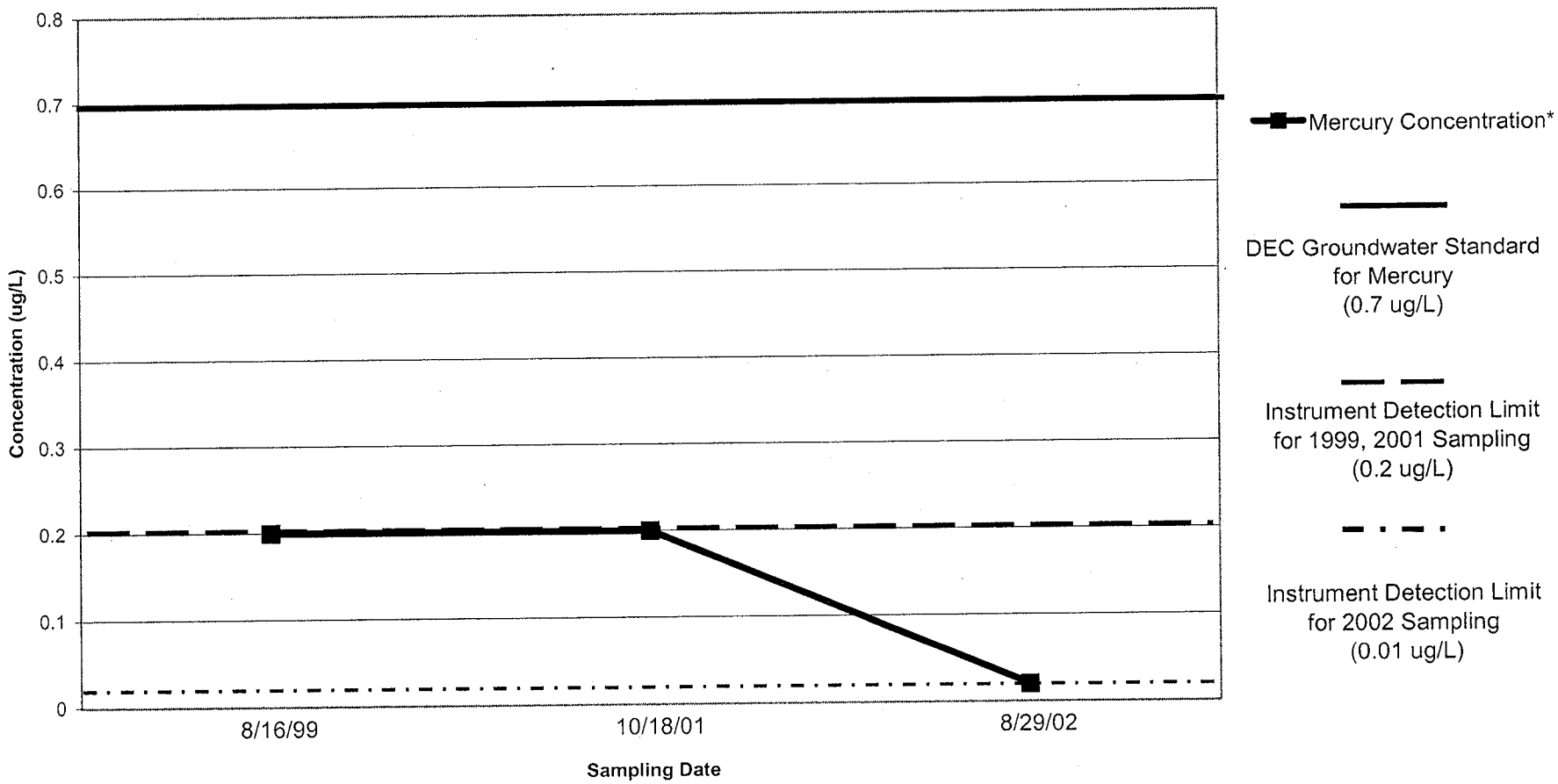


*Note: For 1999 and 2001 sampling, Lead was undetected in this well. For these sampling dates, the concentration of Lead is graphed as being the same as the instrument Detection Limit, however the concentration may be below the detection limit of the instruments. For 2002 sampling the Lead concentration was determined to be 10.4 ug/L. This value is less than the Contract Required Detection Limit but is greater than or equal to the

Standard.

Figure 31

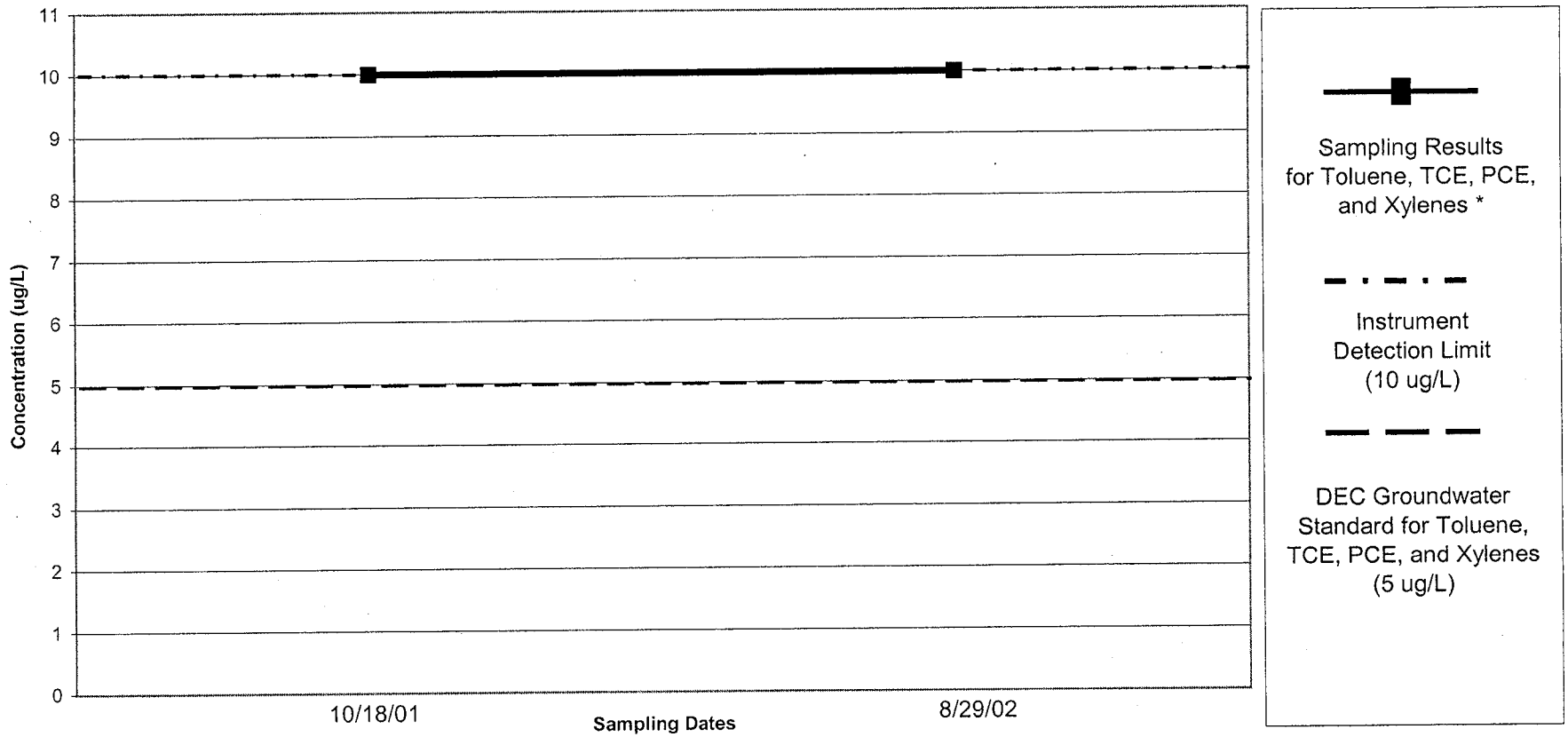
North Lawrence Oil Dump MW-301
Mercury Concentration



*Note: For all sampling dates in question, Mercury was undetected in this well. The concentration of Mercury is graphed as being the same as the instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments. It is important to note that all of the Mercury concentrations are below the New York State Groundwater Standard.

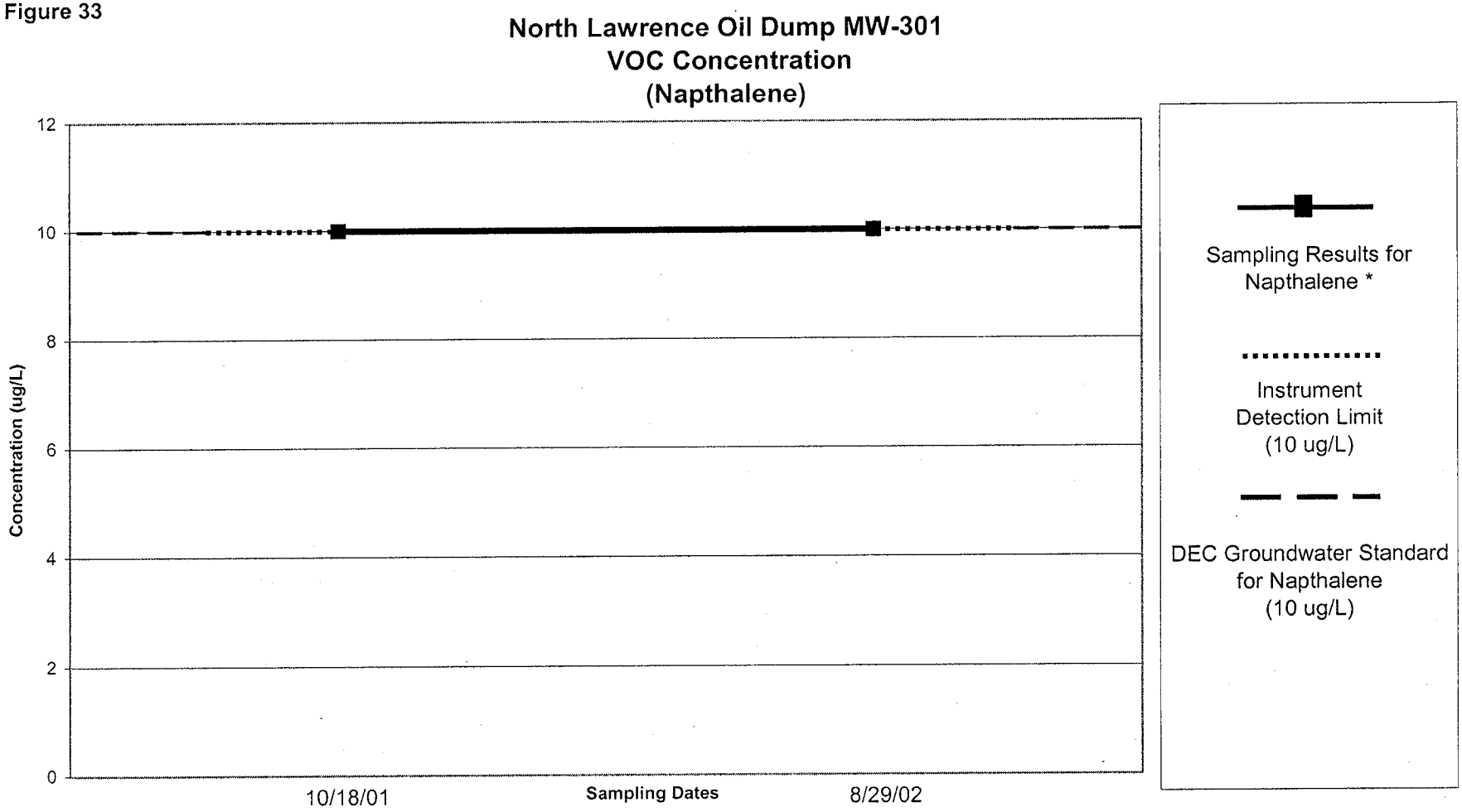
Figure 32

North Lawrence Oil Dump MW-301
VOC Concentration
(Toluene, TCE, PCE, and Xylenes)



* Note: For all sampling dates in question, all individual VOC's were undetected in this well. The sampling results are graphed as being the same as the Instrument Detection Limit, however these results may be below the detection limit of the instruments. It is important to note that the New York State Groundwater Standard for each VOC of concern is less than the detection limit of the instruments.

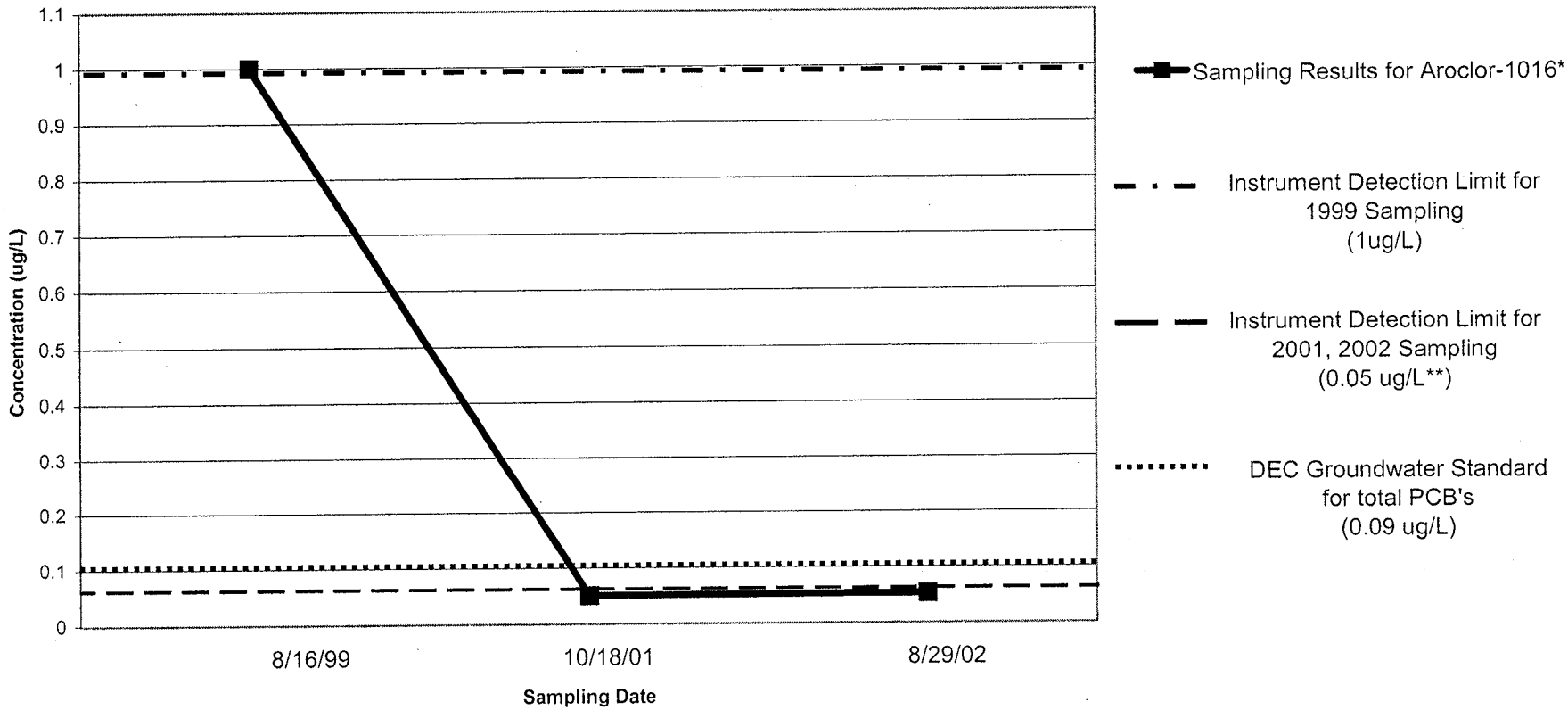
Figure 33



* Note: For all sampling dates in question, the VOC was undetected in this well. The sampling results are graphed as being the same as the Instrument Detection Limit, however these results may be below the detection limit of the instruments. It is important to note that the Instrument Detection Limit is the same as the New York State Groundwater Standard.

Figure 34

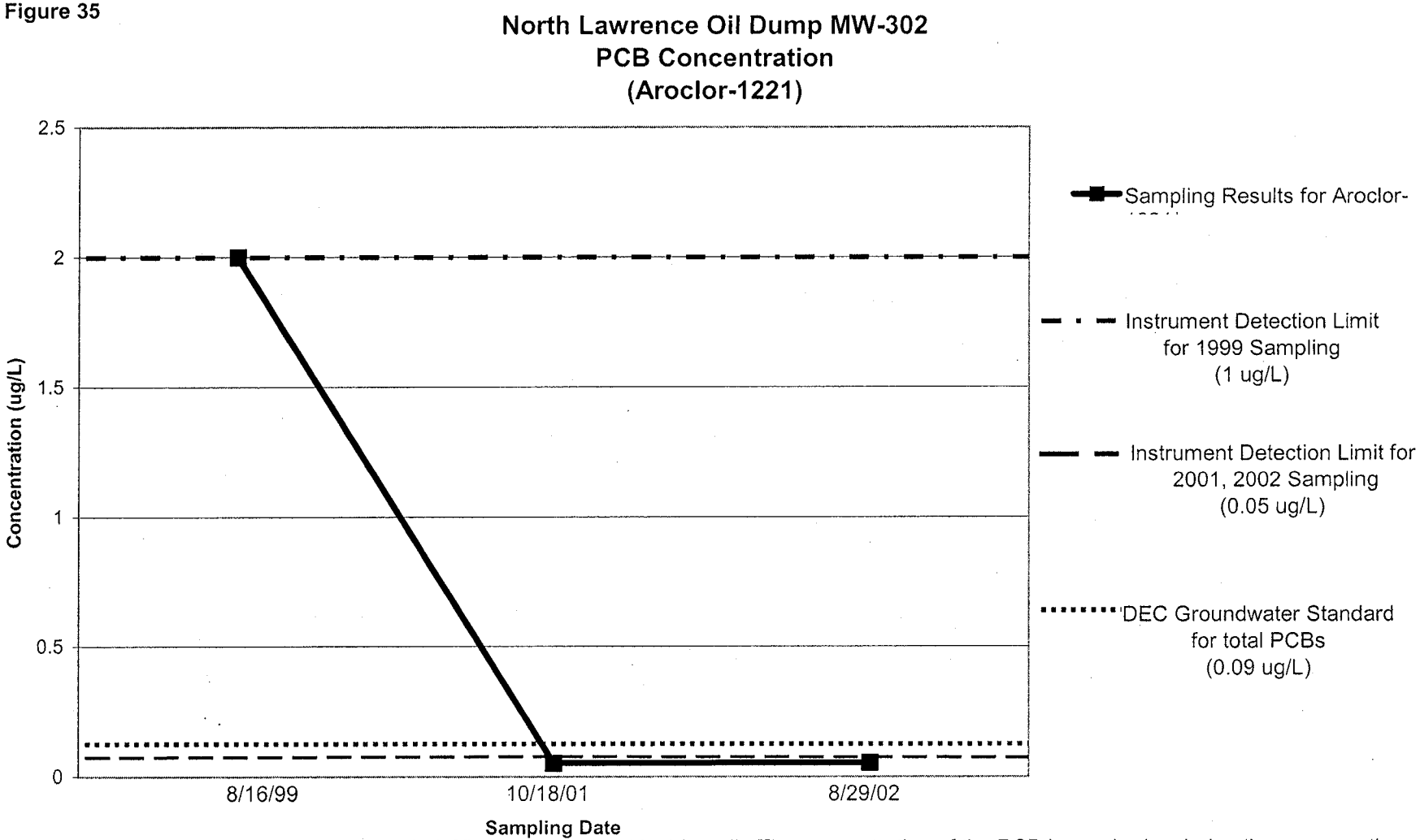
North Lawrence Oil Dump MW-302
PCB Concentration
(Aroclor-1016)



*Note: For all sampling dates in question, this PCB was undeteced in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 35

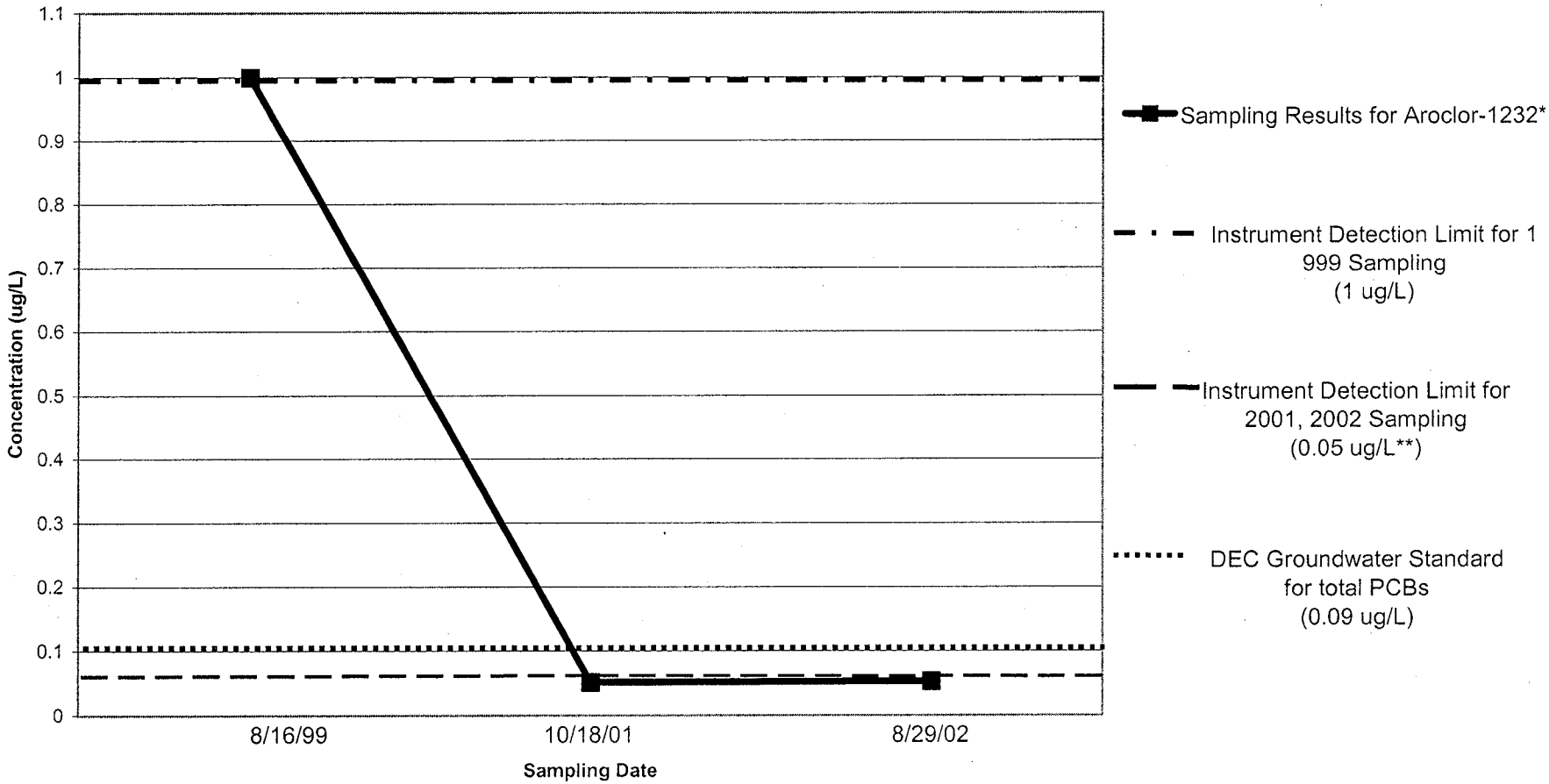


*Note: For the sampling dates in question, this PCB was undetected in this well. The concentration of the PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. This PCB was undetected based on these detection limits.

Figure 36

North Lawrence Oil Dump MW-302
PCB Concentration
(Aroclor-1232)

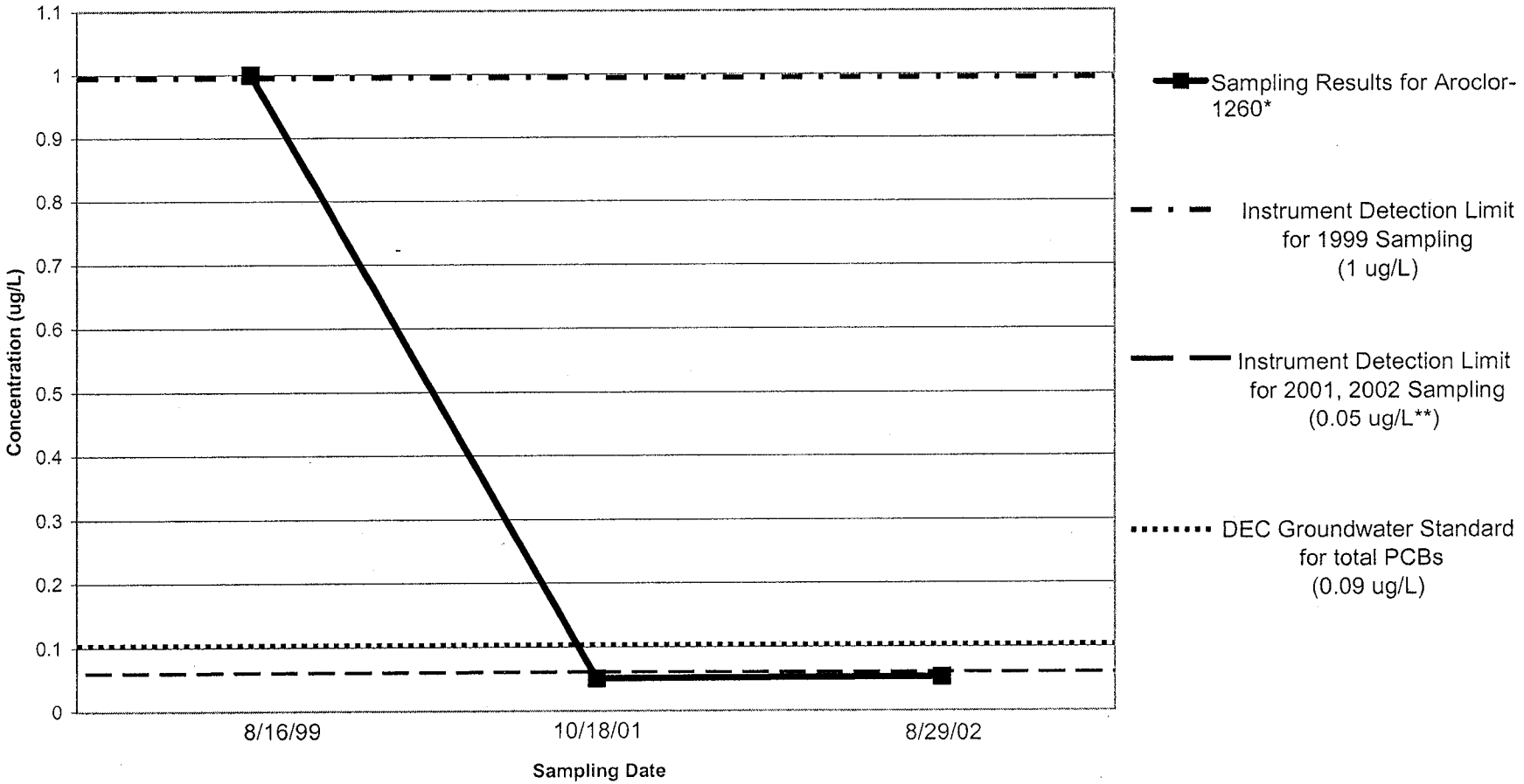


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 40

North Lawrence Oil Dump MW-302
PCB Concentration
(Aroclor-1260)

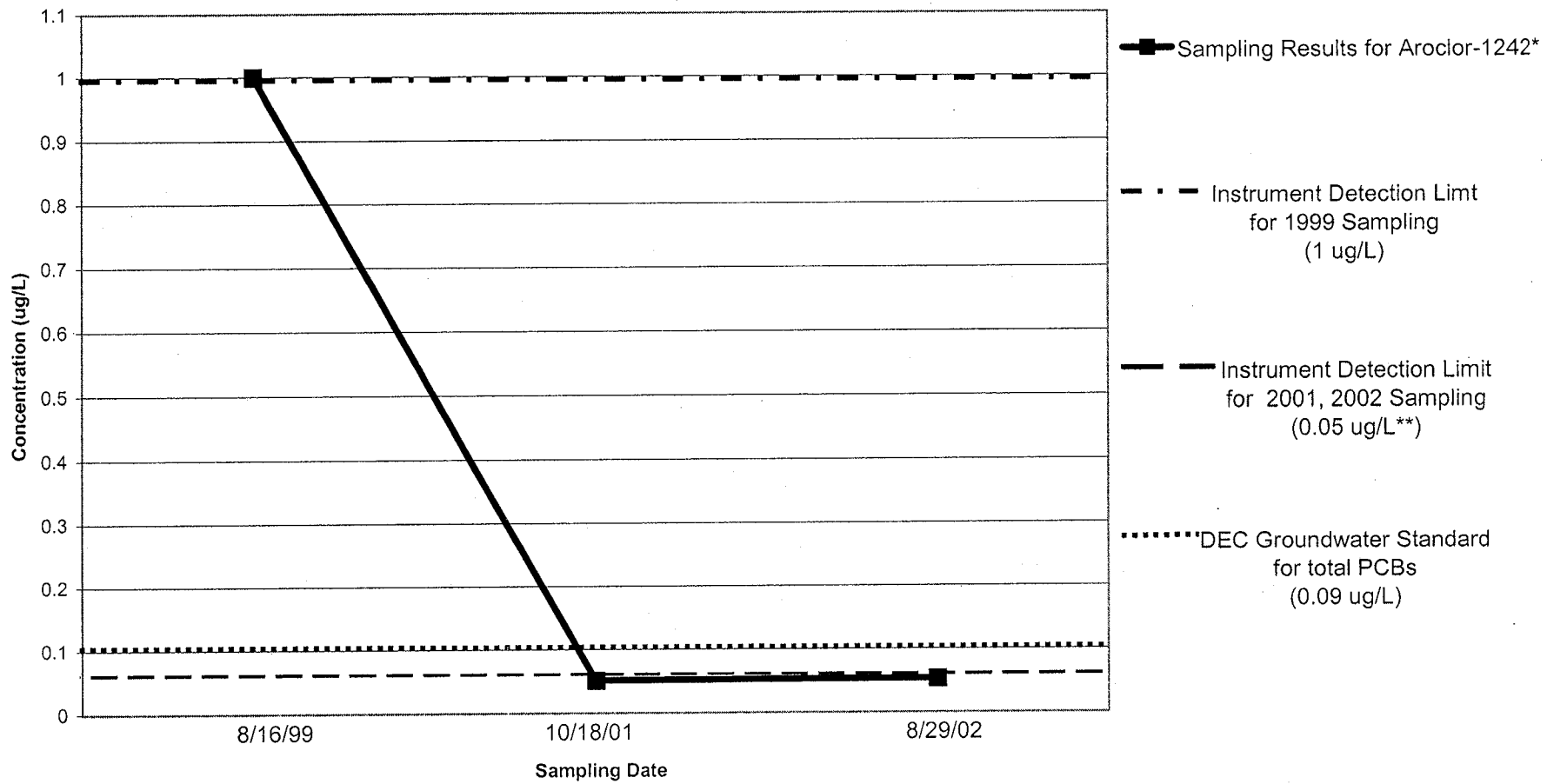


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 37

North Lawrence Oil Dump MW-302
PCB Contamination
(Aroclor-1242)

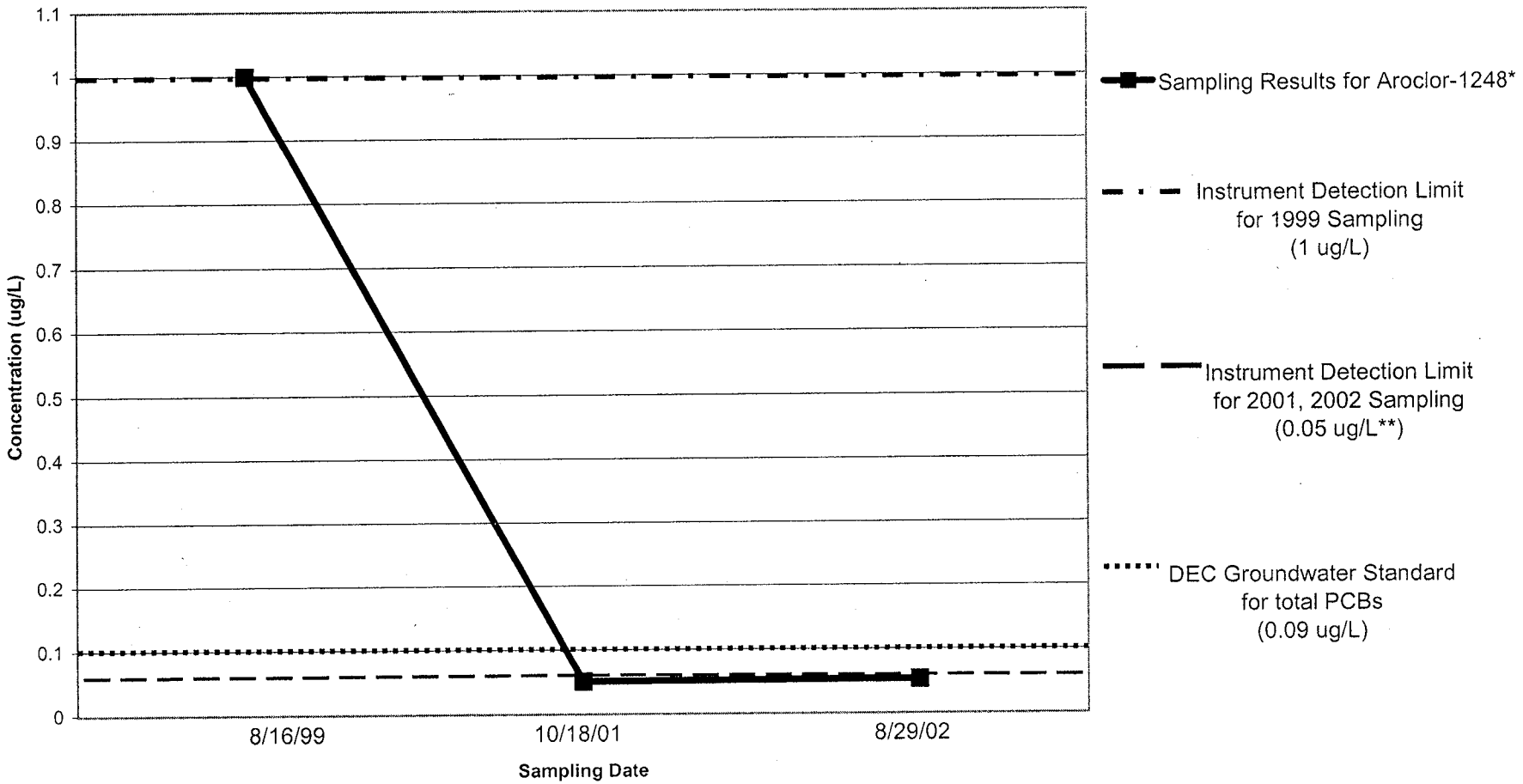


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on thesed detection limits.

Figure 38

North Lawrence Oil Dump MW-302
PCB Concentration
(Aroclor-1248)

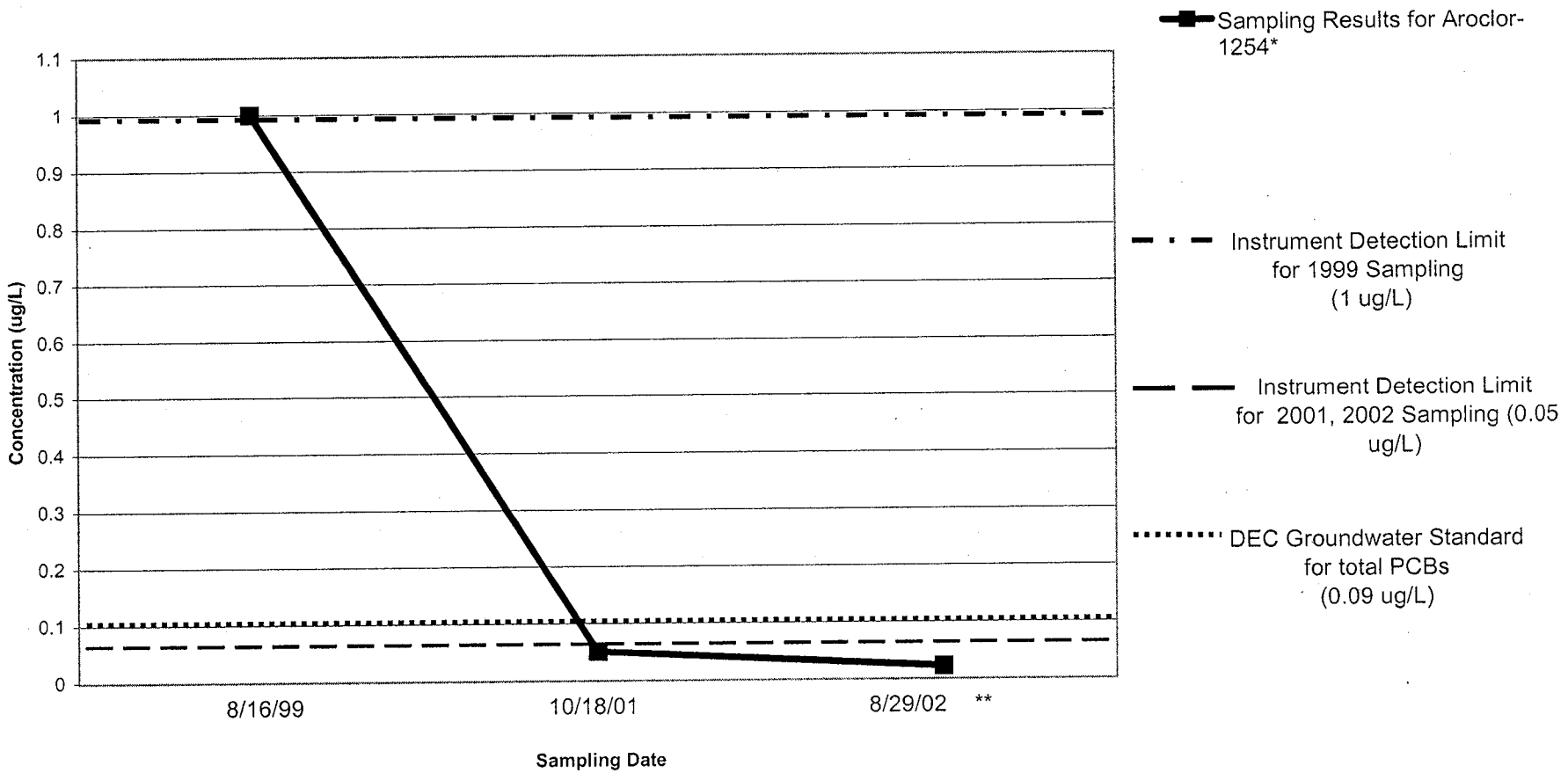


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purpose of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 39

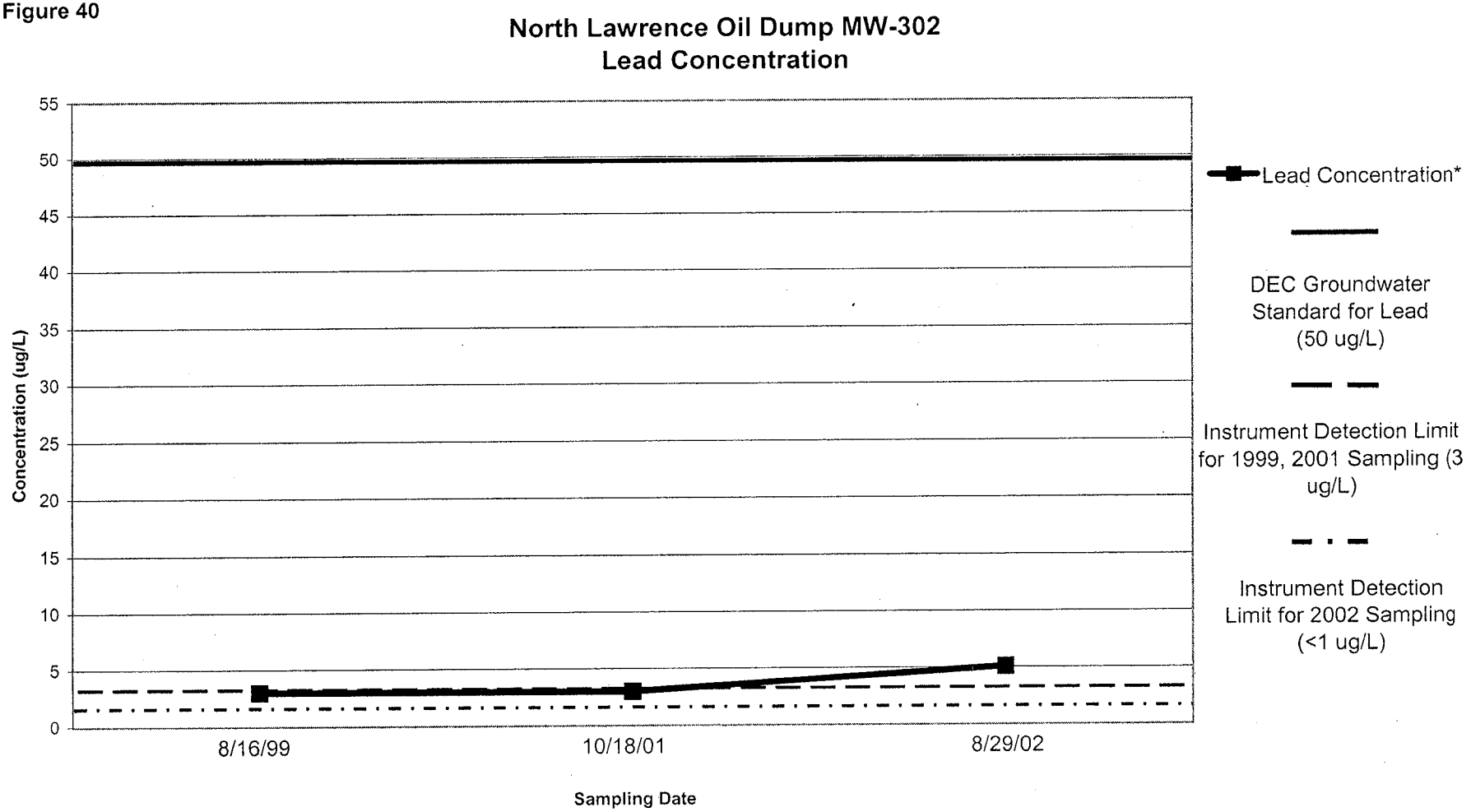
North Lawrence Oil Dump MW-302
PCB Concentration
(Aroclor-1254)



*Note: For the sampling dates in question, this PCB was undetected in this well. The concentration of the PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The 2002 reported value is due to background contamination in the lab.

Figure 40

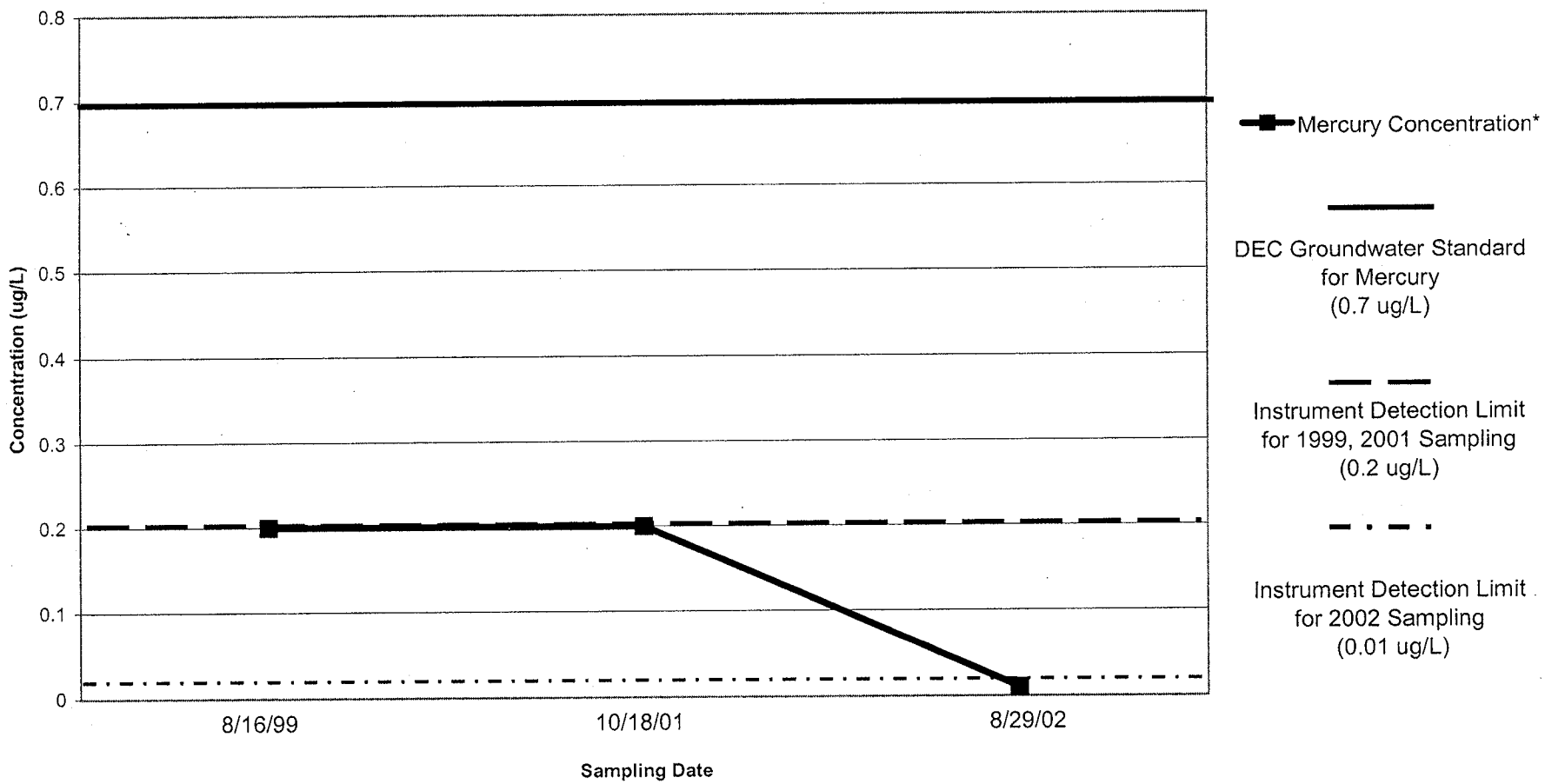


*Note: For 1999 and 2001 sampling, Lead was undetected in this well. For these sampling dates, the concentration of Lead is graphed as being the same as the instrument Detection Limit, however the concentration may be below the detection limit of the instruments. For 2002 sampling, the Lead concentration was determined to be 10.4 ug/L. This value is less than the Contract Required Detection Limit but is greater than or equal to the

Standard.

Figure 41

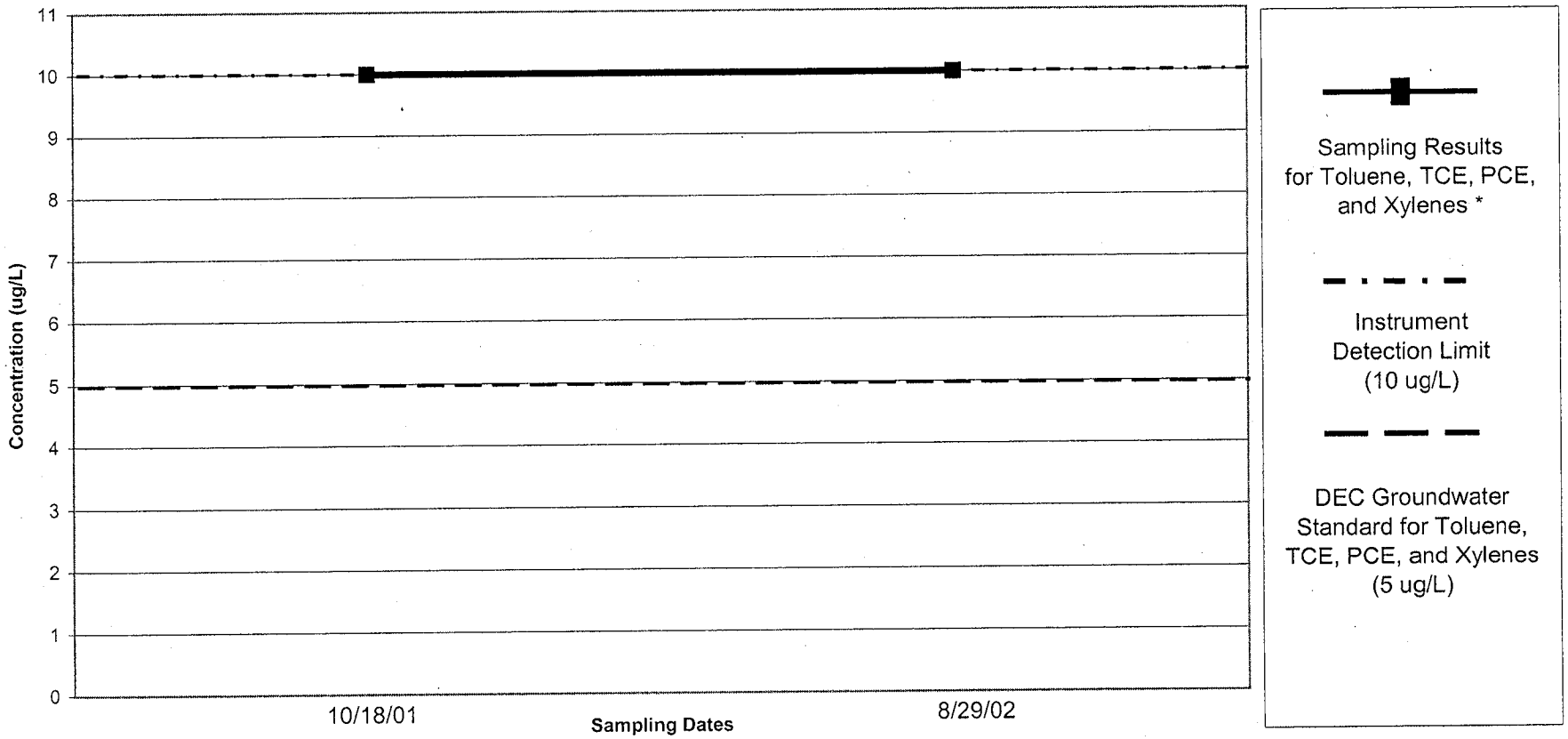
North Lawrence Oil Dump MW-302
Mercury Concentration



*Note: For all sampling dates in question, Mercury was undetected in this well. The concentration of Mercury is graphed as being the same as the instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments. It is important to note that all of the Mercury concentrations are below the New York State Groundwater Standard.

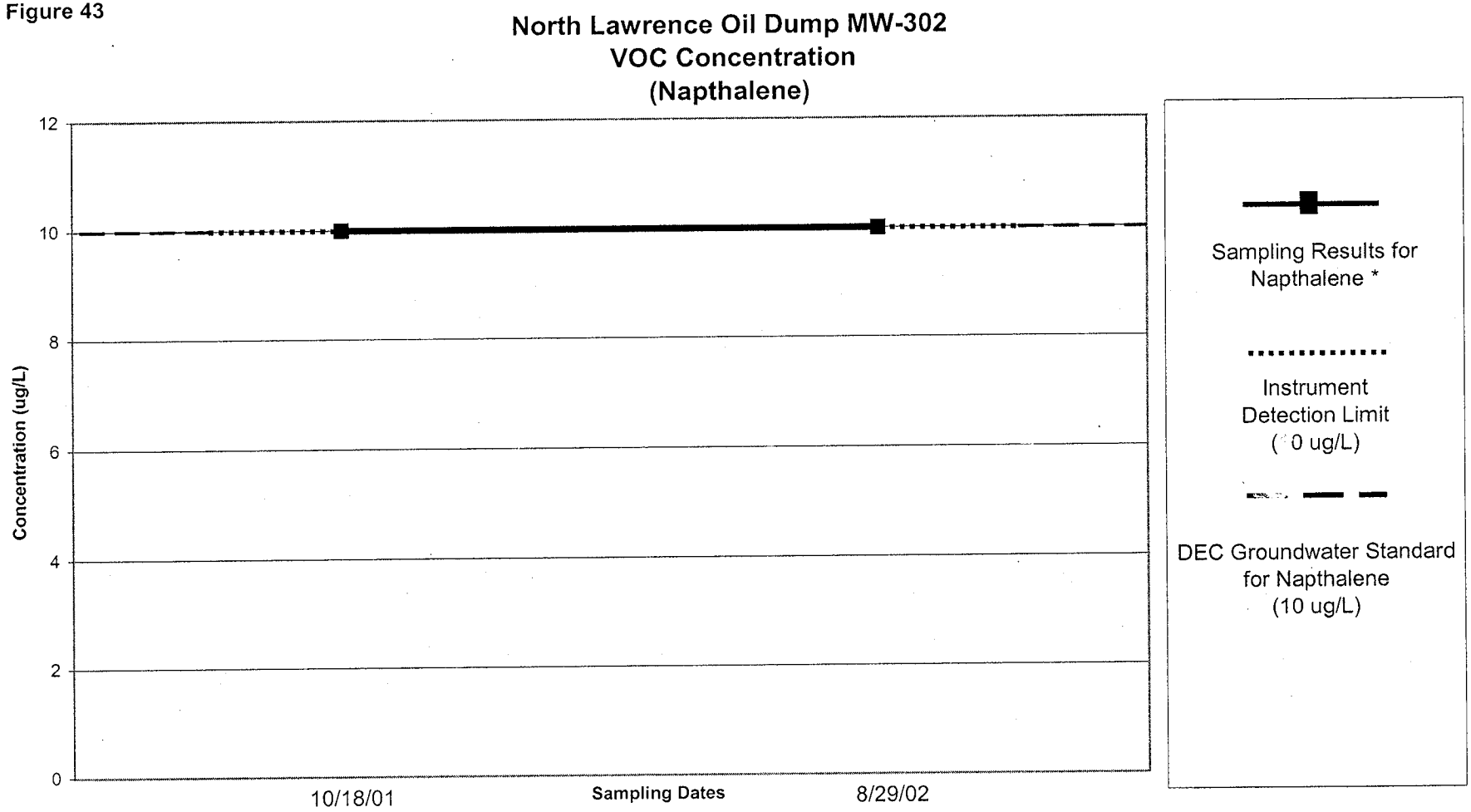
Figure 42

North Lawrence Oil Dump MW-302
VOC Concentration
(Toluene, TCE, PCE, and Xylenes)



* Note: For all sampling dates in question, all individual VOC's were undetected in this well. The sampling results are graphed as being the same as the Instrument Detection Limit, however these results may be below the detection limit of the instruments. It is important to note that the New York State Groundwater Standard for each VOC of concern is less than the detection limit of the instruments.

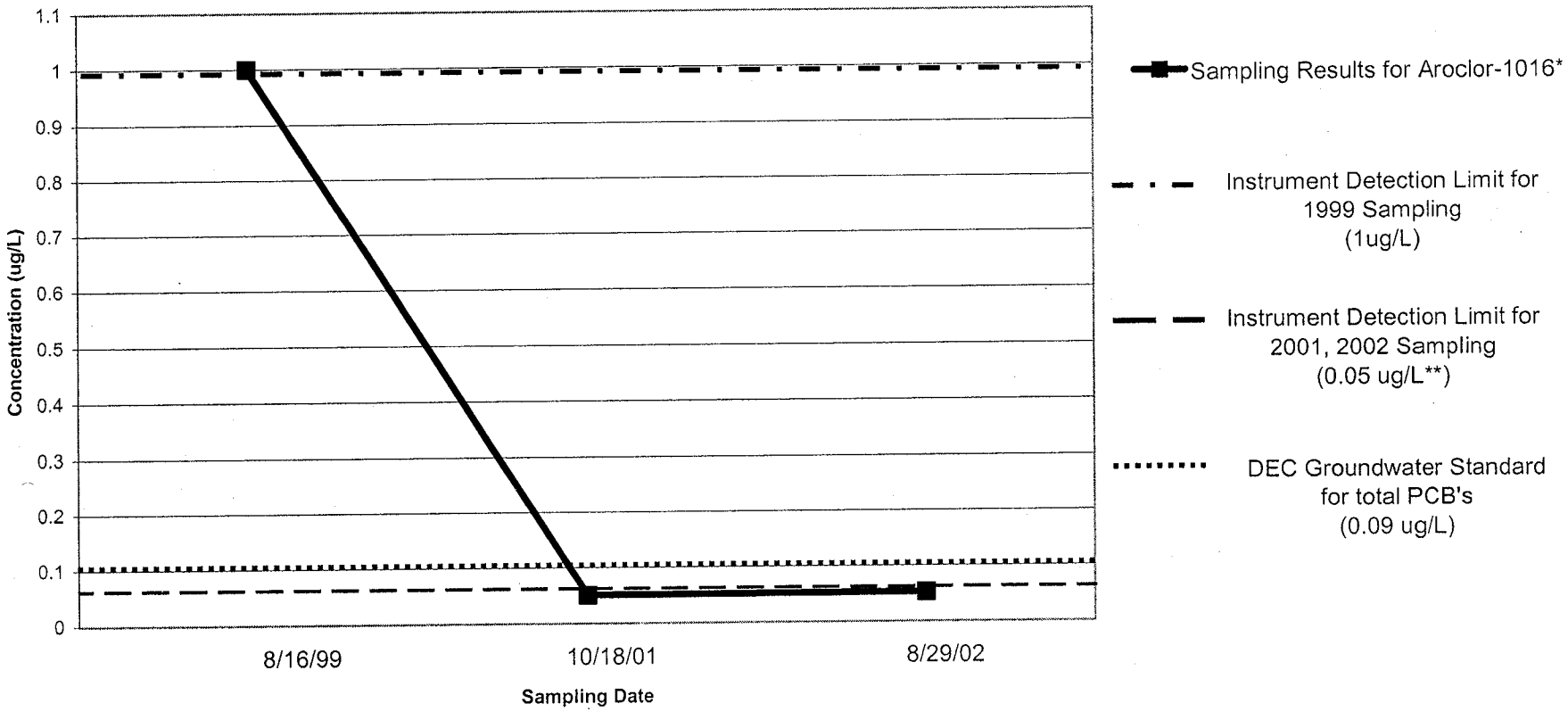
Figure 43



* Note: For all sampling dates in question, the VOC was undetected in this well. The sampling results are graphed as being the same as the Instrument Detection Limit, however these results may be below the detection limit of the instruments. It is important to note that the Instrument Detection Limit is the same as the New York State Groundwater Standard.

Figure 44

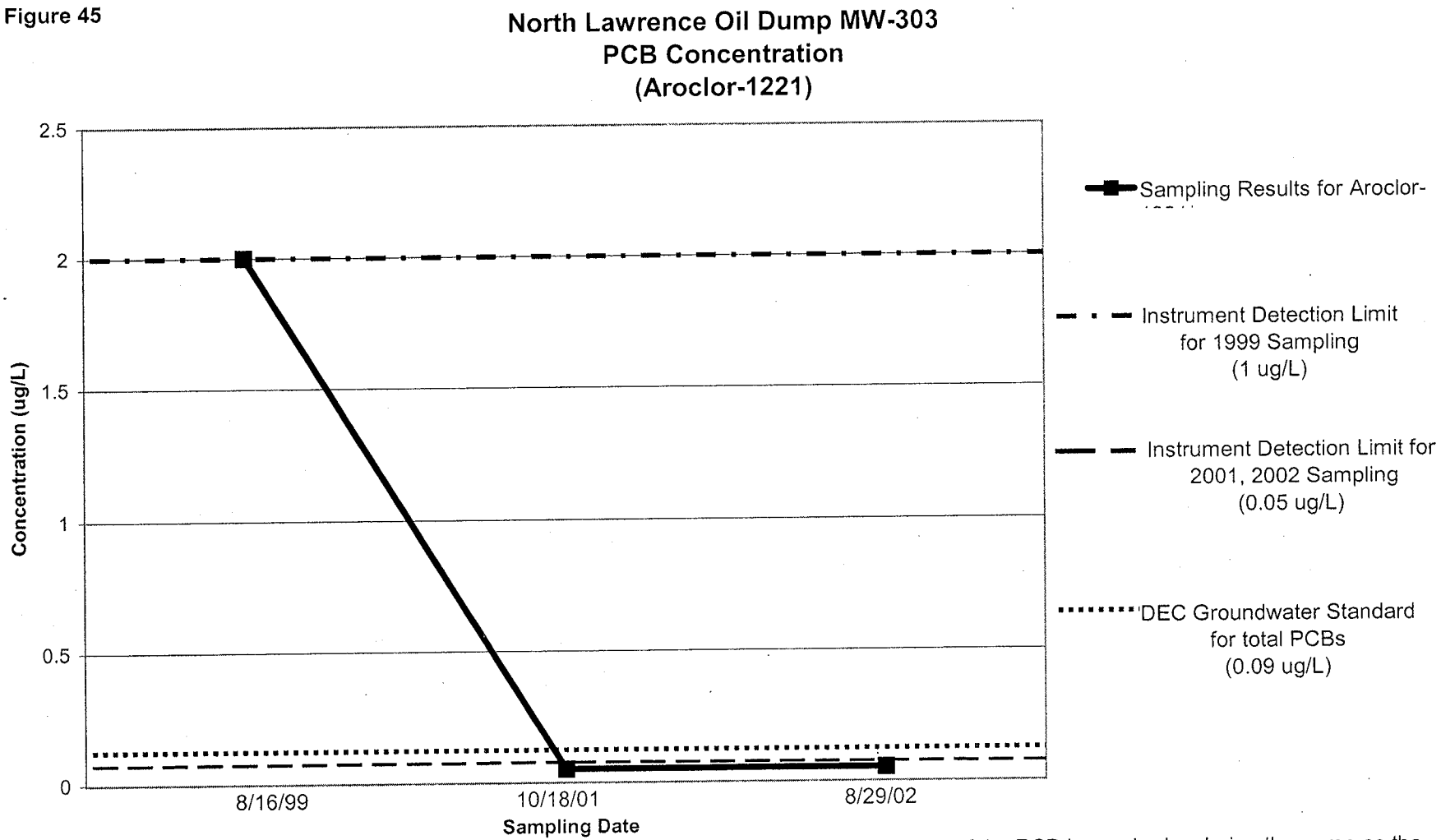
North Lawrence Oil Dump MW-303
PCB Concentration
(Aroclor-1016)



*Note: For all sampling dates in question, this PCB was undeteced in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 45

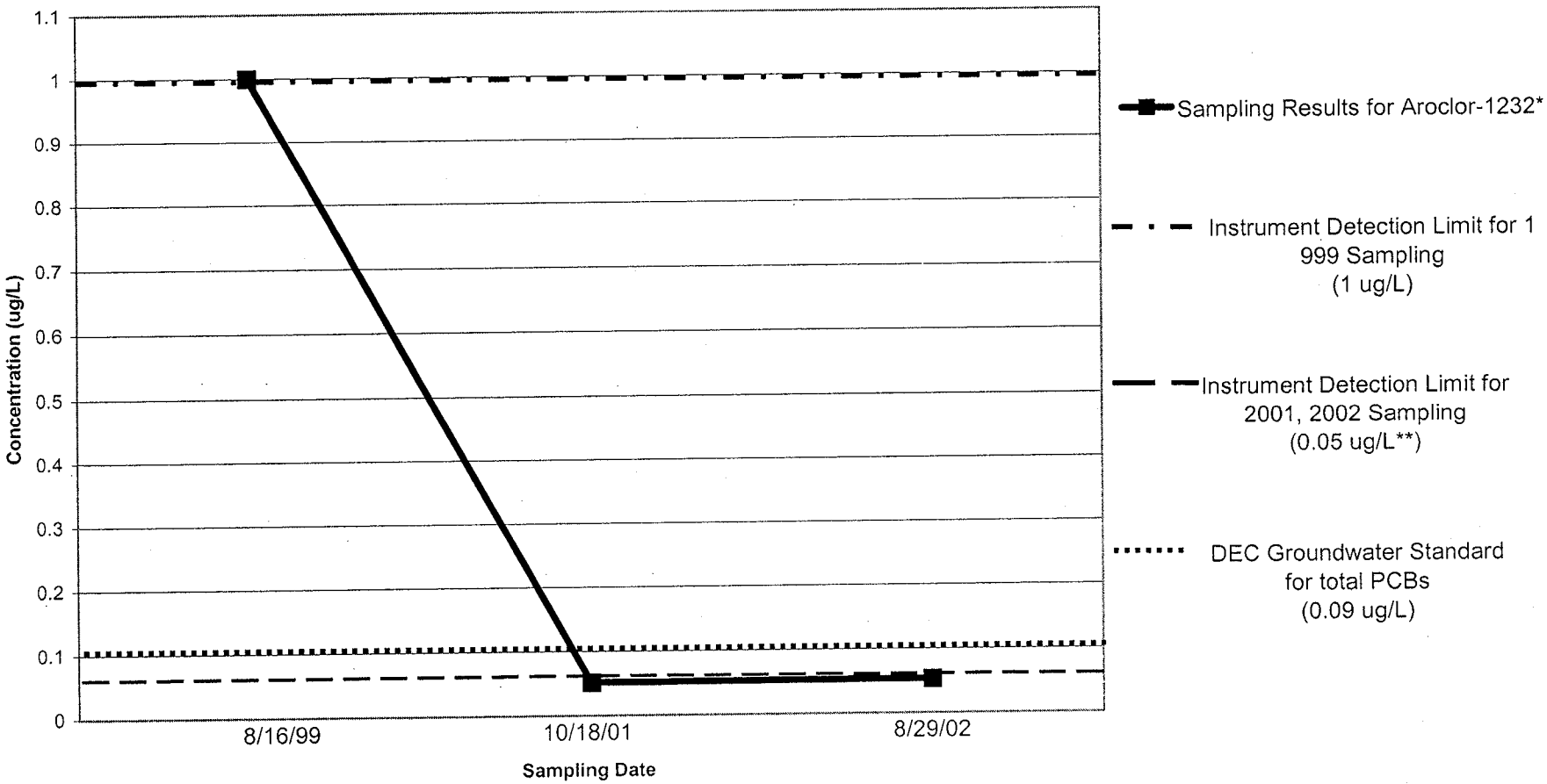


*Note: For the sampling dates in question, this PCB was undetected in this well. The concentration of the PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. This PCB was undetected based on these detection limits.

Figure 46

North Lawrence Oil Dump MW-303
PCB Concentration
(Aroclor-1232)

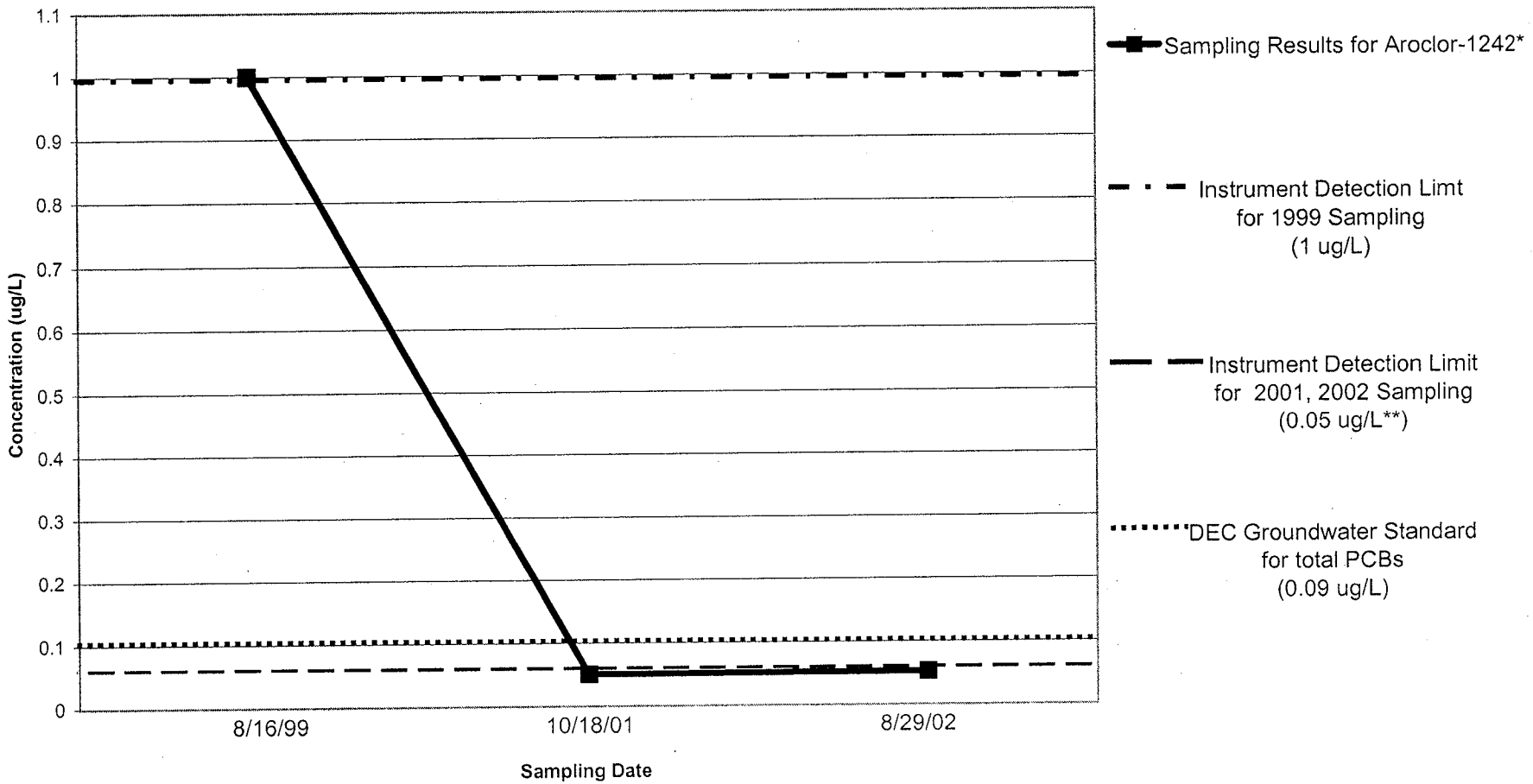


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 47

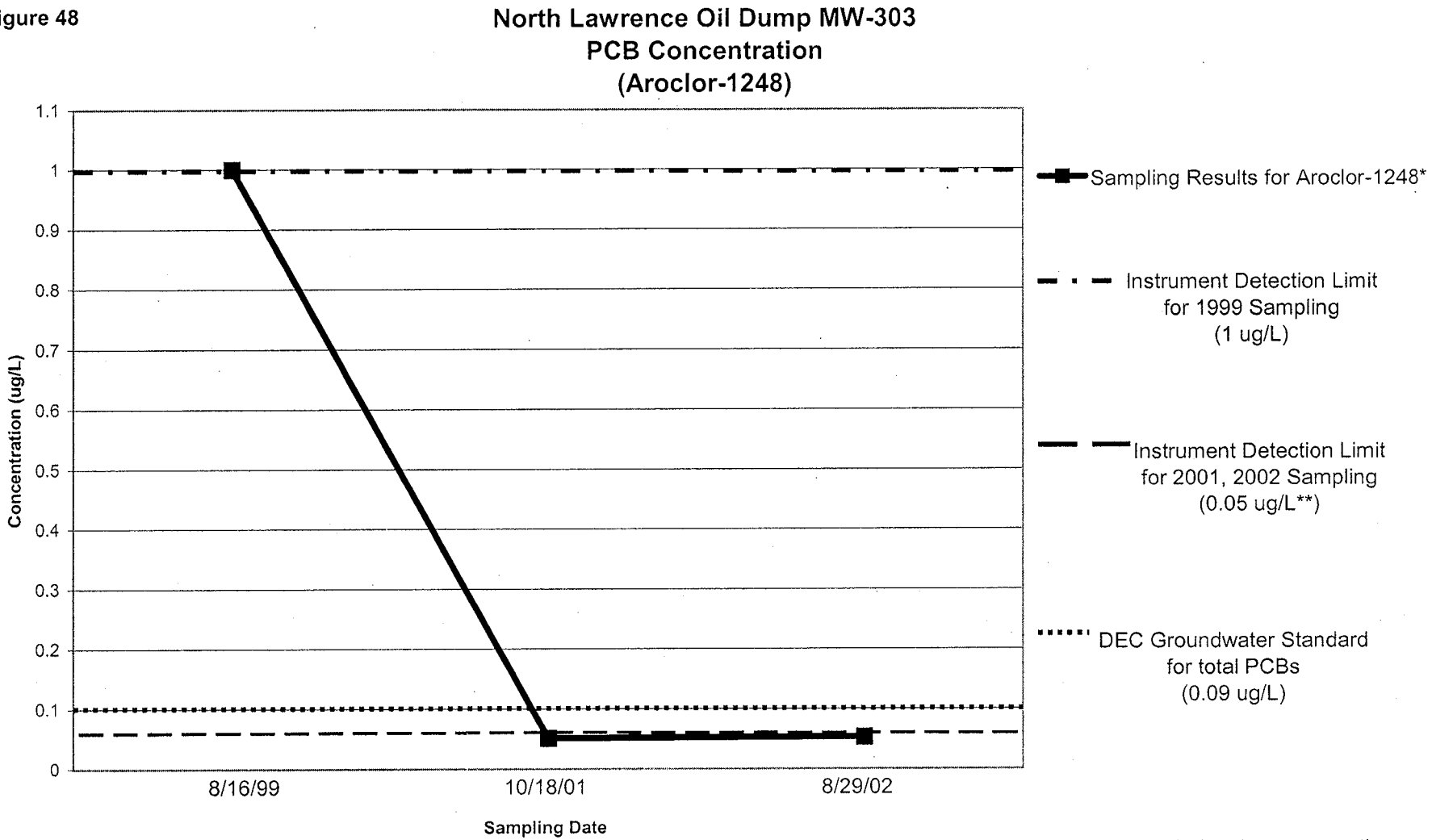
North Lawrence Oil Dump MW-303
PCB Contamination
(Aroclor-1242)



*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on thesed detection limits.

Figure 48

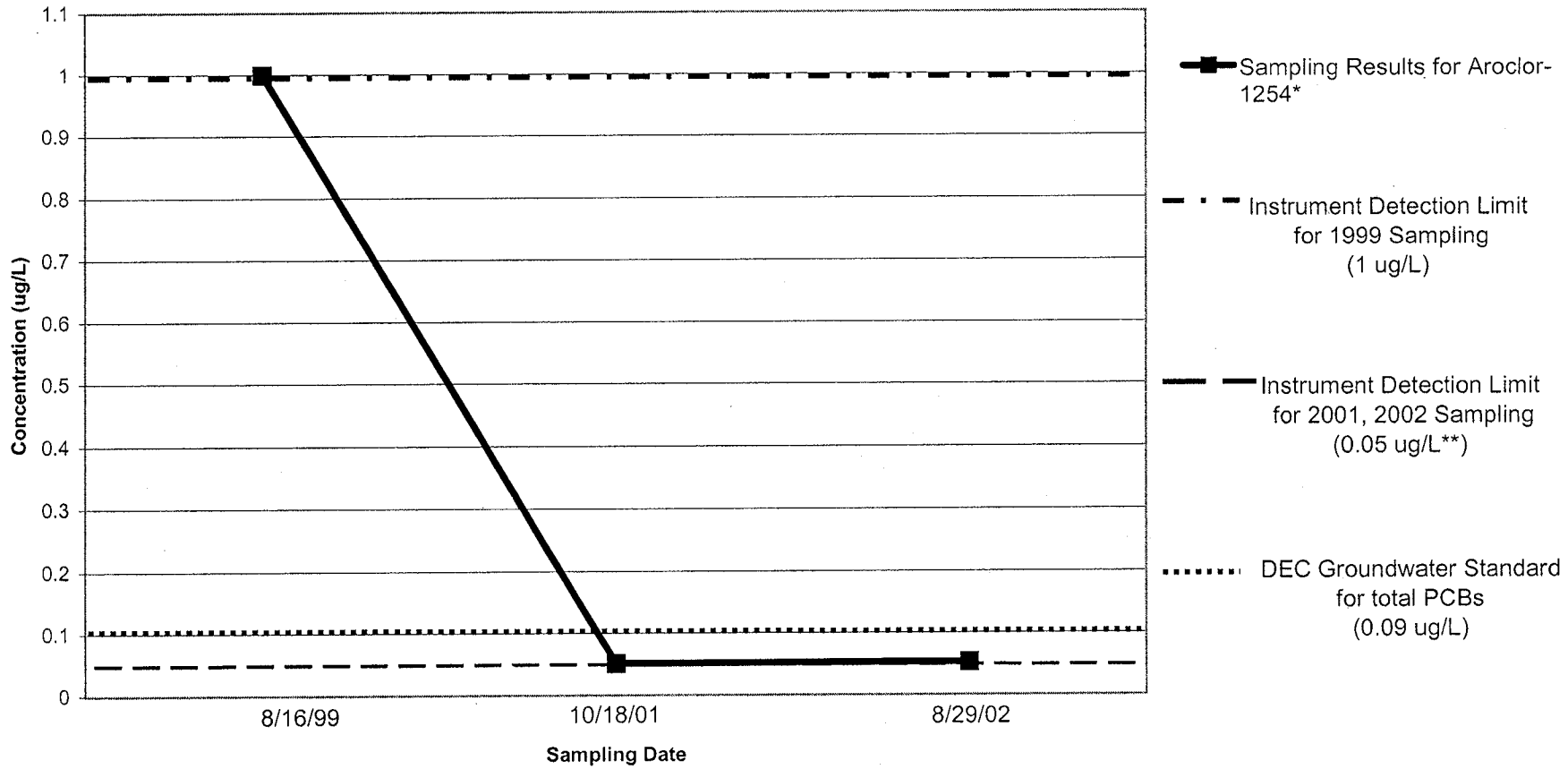


*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purpose of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 49

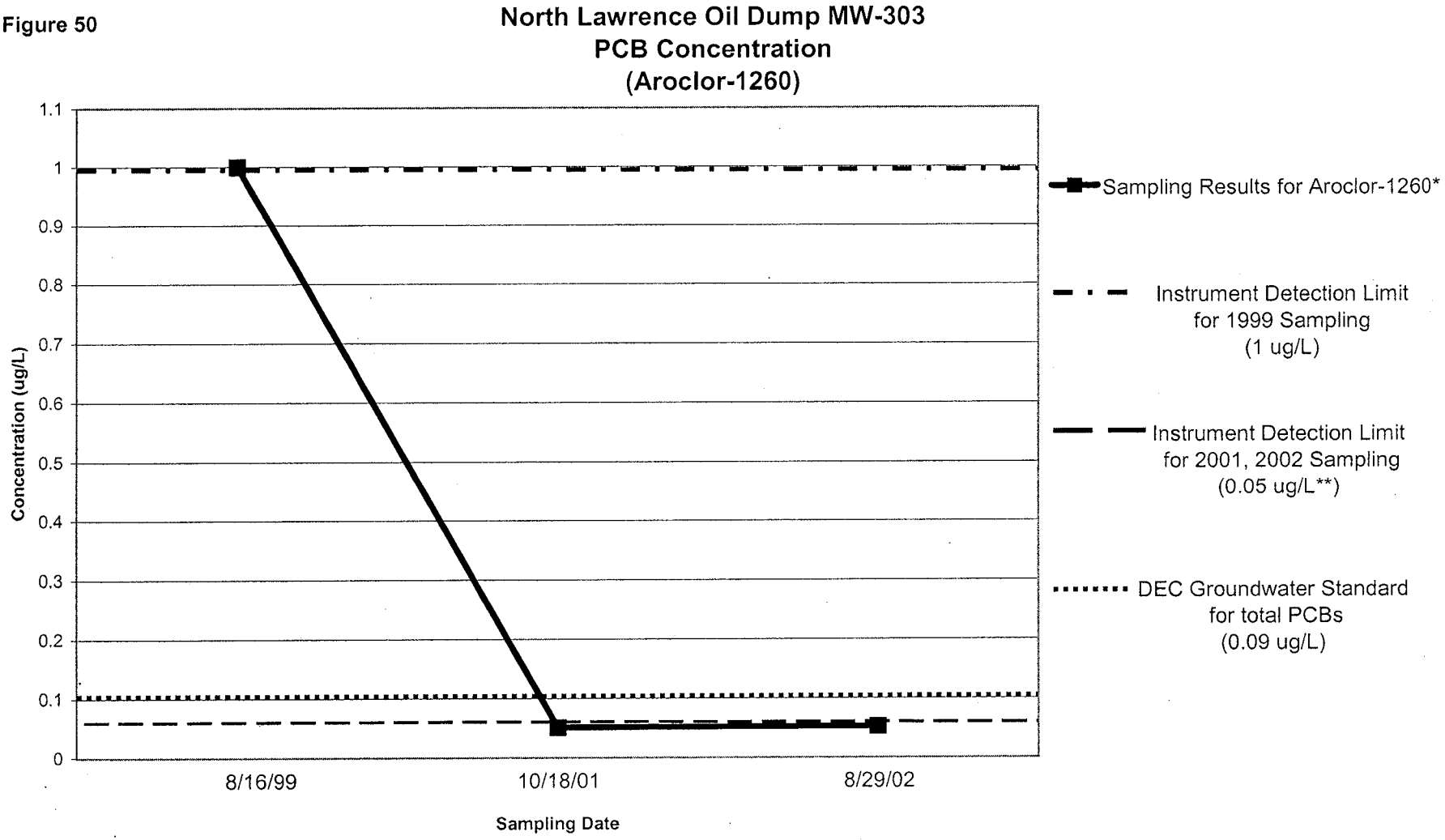
North Lawrence Oil Dump MW-303
PCB Concentration
(Aroclor-1254)



*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

Figure 50



*Note: For all sampling dates in question, this PCB was undetected in this well. The concentration of this PCB is graphed as being the same as the Instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments.

**Note: The Instrument Detection Limit for 2001 and 2002 has been rounded to 0.05 ug/L for the purposes of graphical simplicity. The actual Instrument Detection Limit for 2001 was 0.051 ug/L, and was 0.053 ug/L for 2002. The PCB was undetected based on these detection limits.

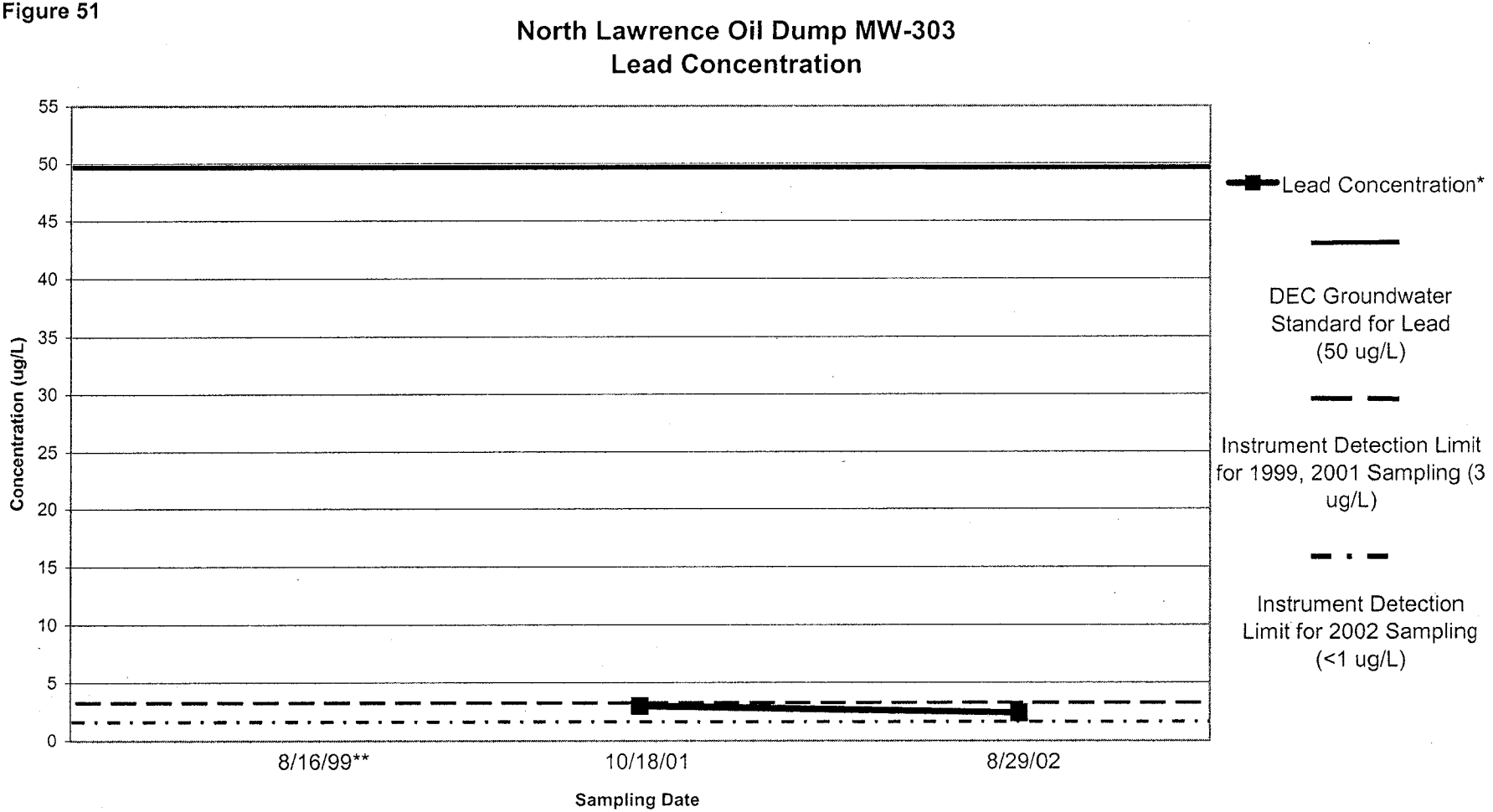
North Lawrence Oil Dump
Site # 645013
MW - 303
1999 sample # : A315 - 01
2001 sample # : LAW - 303
2002 sample # : A315 - 03

Analyte	DEC groundwater standards (ug/L)	1999 concentration (ug/L)	Q	2001 concentration (ug/L)	Q	2002 concentration (ug/L)	Q
Lead	50		NA	3	U	2.4	B
Mercury	0.7		NA	0.2	U	0.01	U

U - The compound was not detected.
B - The reported value was obtained from a reading that was less than the Contract Required Detection Limit but was greater than or equal to the Instrument Detection Limit.
NA - Sample was not analyzed.

1999 data came from lab reports from ChemTech Consulting Group.
2001 data came from lab reports from the DEC Lab.
2002 data came from lab reports from Columbia Analytical Services.

Figure 51

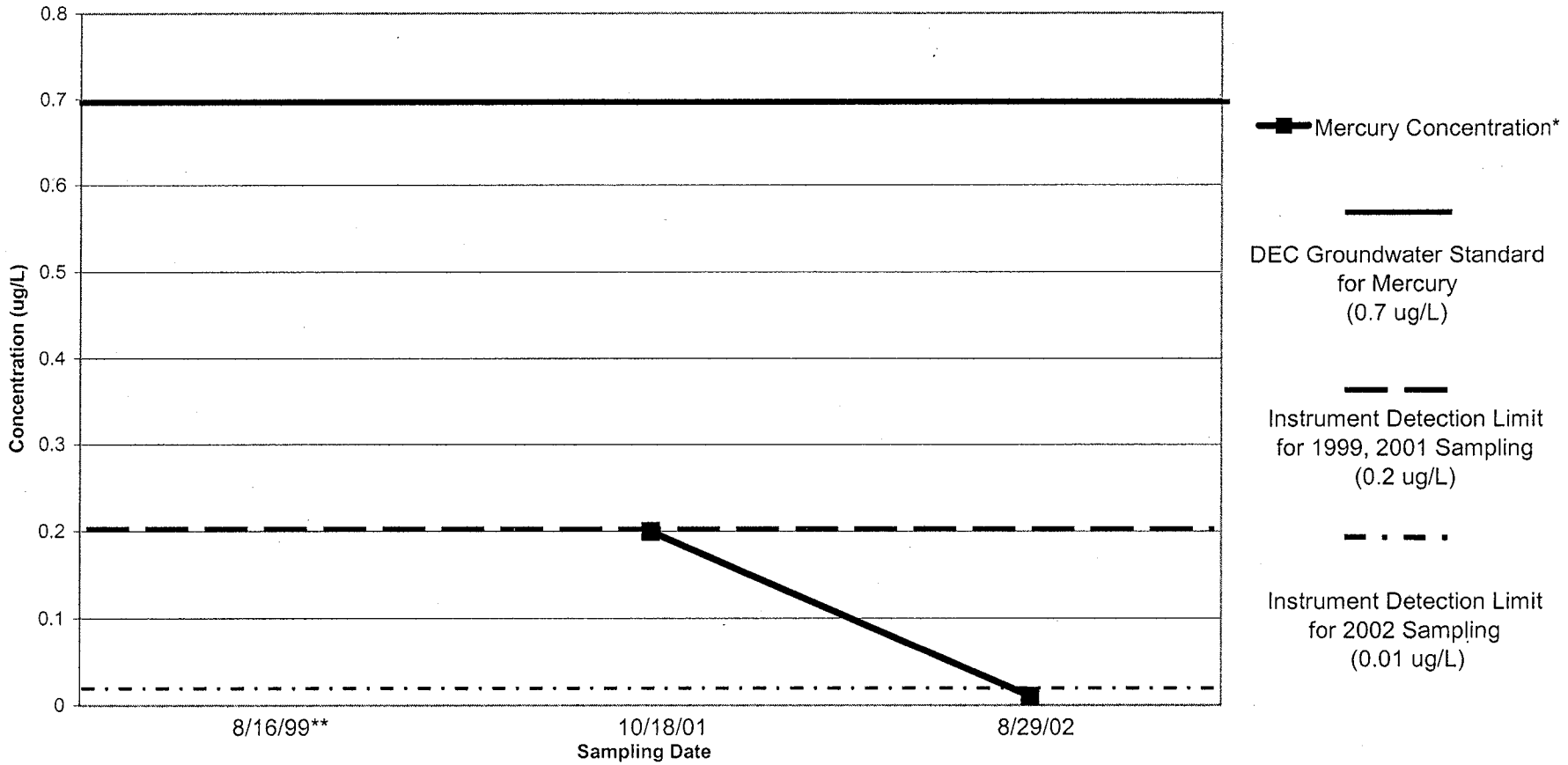


*Note: For 2001 sampling, Lead was undetected in this well. For this sampling date, the concentration of Lead is graphed as being the same as the instrument Detection Limit, however, the concentration may be below the detection limit of the instruments. For 2002 sampling, the Lead concentration was determined to be 2.4 ug/L. This value is less than the Contract Required Detection Limit, but is greater than or equal to the instrument Detection

**Note: The 1999 samples were not analyzed for Lead.

Figure 52

North Lawrence Oil Dump MW-303
Mercury Concentration

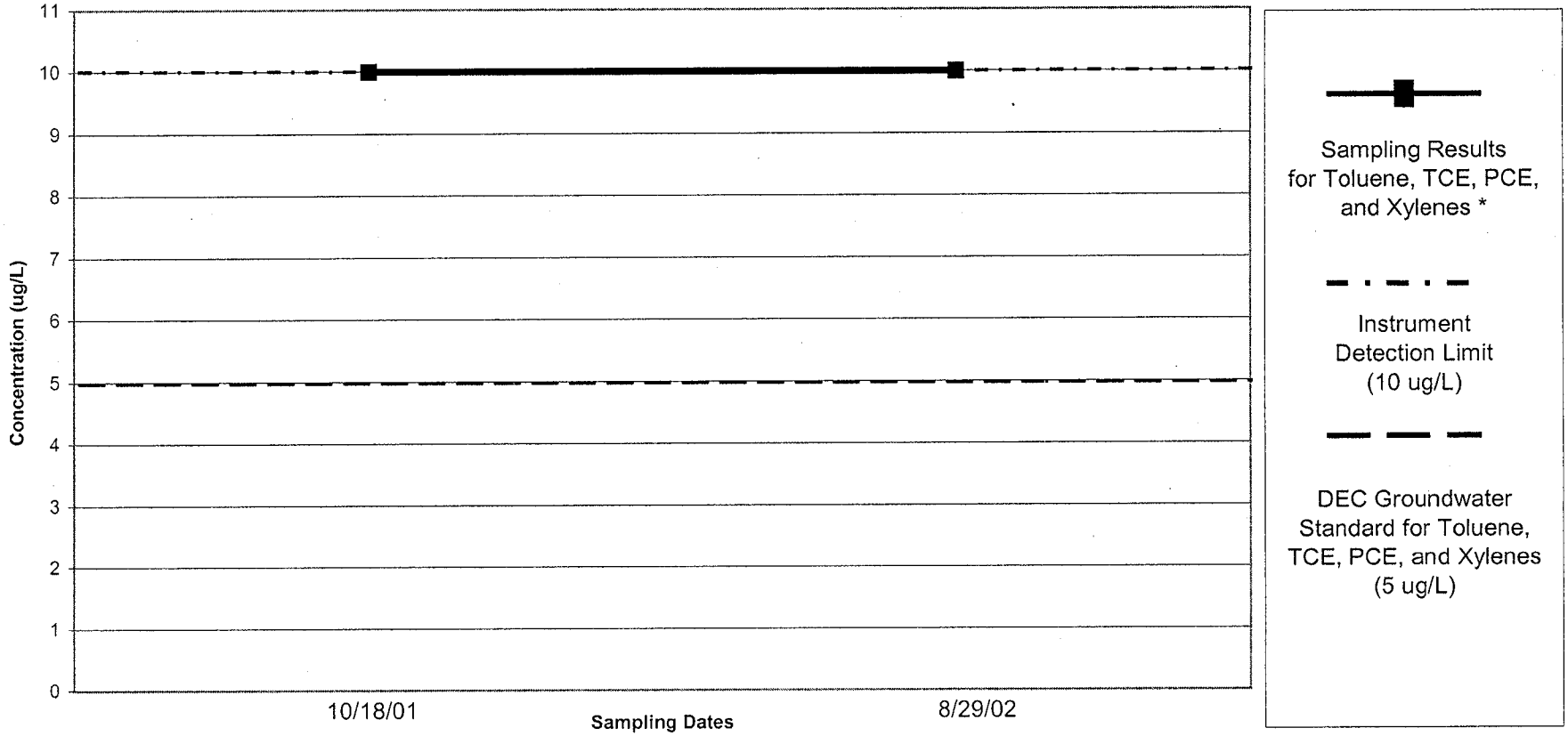


*Note: For all sampling dates in question, Mercury was undetected in this well. The concentration of Mercury is graphed as being the same as the instrument Detection Limit for each date of sampling, however the concentration may be below the detection limit of the instruments. It is important to note that all of the Mercury concentrations are below the New York State Groundwater Standard.

**Note: 1999 samples were not analyzed for Mercury.

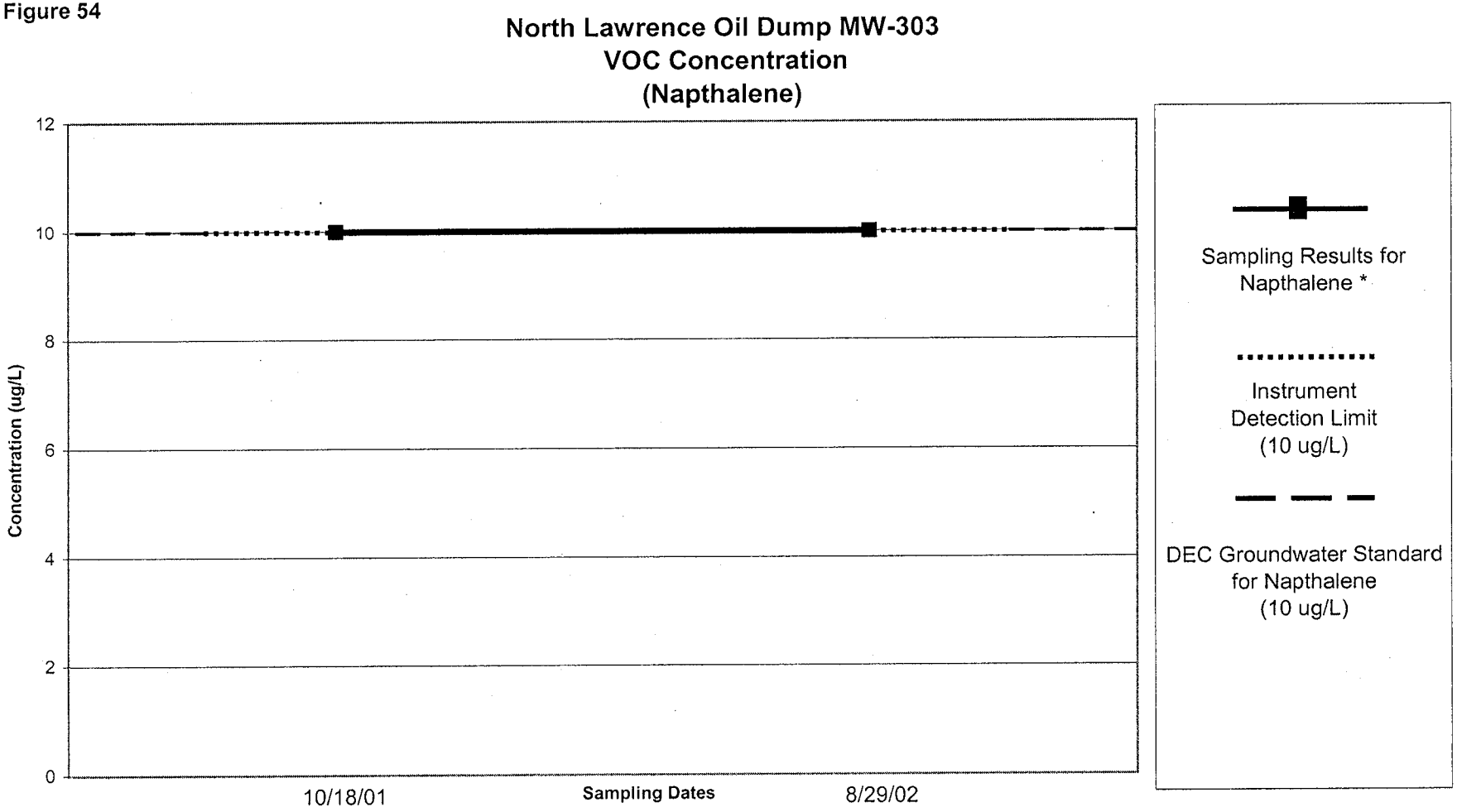
Figure 53

North Lawrence Oil Dump MW-303
VOC Concentration
(Toluene, TCE, PCE, and Xylenes)



* Note: For all sampling dates in question, all individual VOC's were undetected in this well. The sampling results are graphed as being the same as the Instrument Detection Limit, however these results may be below the detection limit of the instruments. It is important to note that the New York State Groundwater Standard for each VOC of concern is less than the detection limit of the instruments.

Figure 54



* Note: For all sampling dates in question, the VOC was undetected in this well. The sampling results are graphed as being the same as the Instrument Detection Limit, however these results may be below the detection limit of the instruments. It is important to note that the Instrument Detection Limit is the same as the New York State Groundwater Standard.

Section 7.0 – Construction Diagrams

LEGEND
FIRST PHASE SURFACE WATER/SEDIMENT SAMPLE LOCATION
SECOND PHASE SEDIMENT SAMPLE LOCATION
PROPOSED AREAS TO BE EXCAVATED
WETLAND
WETLAND BOUNDARY
EDGE OF LAGOON
0 50 100 200 FEET
SCALE: 1" = 100'
PROPOSED AREAS TO BE EXCAVATED
NORTH LAWRENCE OIL DUMP SITE
FEASIBILITY STUDY

FIGURE 2