

March 14, 2005

Mr. Mark Koplitz  
Petroleum Brownfields Program  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

RECEIVED

MAR 15 2005

9219 East River Road NW  
Minneapolis, MN 55433  
Phone 763-786-1445  
Fax 763-786-1030  
www.prosourcetech.com

Subject: Bloomington Substation  
2700 East 80<sup>th</sup> Street  
Bloomington, Minnesota

Dear Mr. Koplitz:

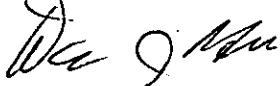
Please find enclosed the Development Response Action Plan Implementation Report for the above referenced site. Copies of these reports have also been submitted to the VIC Program for review due to the presence and removal of non-petroleum related impacts to surficial soil.

We would like an expedited technical review in order to meet an April 1<sup>st</sup> site closure and grading initiation deadline. This work needs to be initiated by April 1<sup>st</sup> in order to meet the FAA deadline for opening of the new runway. We are also requesting a file closure determination be considered for low-level, residual petroleum-related compounds in the near-surface soil at the site.

If you have any questions in the meantime, please feel free to call me at 763-786-1445.

Sincerely,

**ProSource Technologies, Inc.**



David J. Hodek, P.E.  
Project Engineer

cc: Mr. Al Peterson

enclosures

## **TECHNICAL REPORT**

### **DEVELOPMENT RESPONSE ACTION PLAN IMPLEMENTATION REPORT**

**Bloomington Substation  
Bloomington, Minnesota**



**Prepared for:**

**Xcel Energy  
414 Nicollet Mall  
Minneapolis, MN 55401**

**March 14, 2005**

**ProSource Project No. 0237-05**

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Appendix A	Disposal Records
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## 1.0 INTRODUCTION

On behalf of Northern States Power Company (d.b.a. Xcel Energy), ProSource Technologies, Inc. (ProSource) has prepared this Development Response Action Plan (DRAP) Implementation Report for the Bloomington Substation located at 2700 East 80<sup>th</sup> Street in Bloomington, Minnesota (hereon referred to as "Site"). The purpose of the response actions was to assist Xcel Energy with environmental issues related to the sale of its property to the Metropolitan Airports Commission (MAC).

### 1.1 Site Description

A site location map using the United States Geological Survey (USGS) St. Paul SW 7.5 minute topographic quadrangle base map is provided as Figure 1. The USGS coordinates for the site are the NW ¼ of the NE ¼ of Section 1, Township 27 North and Range 24 West within Hennepin County, Minnesota.

The Site was a rectangular piece of land approximately two acres in size and located southeast of the intersection of Interstate Highway 494 and 24<sup>th</sup> Avenue South. The Site was an electrical substation with five single-story control house buildings, two large transformers, seven vacuum switches, a gas-filled circuit breaker, and two large transmission towers. The remainder of the Site was gravel covered with some perimeter grasses, trees, and shrubs. A site map is included as Figure 2.

### 1.2 Site History

The Site was developed from farmland by the McCarthy Well Company in the mid-1960's and owned until 1986. In 1986, Xcel Energy acquired the Site by eminent domain in order to build an electrical substation to provide electrical service to the nearby Mall of America. The construction of the existing electrical substation was completed in 1987. The Site was recently acquired by the Metropolitan Airports Commission from Xcel Energy.

### 1.3 Previous Investigations

A Phase I ESA was conducted at the Site in June 2000 and updated in 2004 by ProSource. The Phase I ESA identified the areas surrounding two large transformers at the east and west sides of the Site as potential areas of concern. Absorbent materials were observed on the concrete pads below the transformers and evidence of permanent staining of the concrete pads was also observed.

To further define the extent of these impacts, a Phase II ESA was completed in September 2004 in accordance with the Phase II Investigation Work Plan approved by the MPCA on August 3, 2004. The Phase II Investigation indicated two locations of surficial soil staining adjacent to a transformer pad and a tower foundation. Analytical results from these two locations also indicated elevated levels of DRO at 330 mg/kg near the tower foundation and at 890 mg/kg near the transformer pad.

#### 1.4 Project Objectives

Specifically, this Report outlines the procedures and methods used to screen soil at the Site, sampling procedures and results, and disposal of impacted soil and concrete in order to accommodate the planned future land use as buffer property for MAC's runway expansion project. Ultimately, the purpose of this document is to fulfill MPCA VIC and VPIC program requirements and to achieve a "No Further Action" and "File Closure" letter.

## 2.0 RESPONSE ACTIONS

Response actions at the Site were undertaken December 6-7, 2004 with soil excavation and concrete removal performed by Xcel Energy. Activities were performed in accordance with the DRAP and the Construction Contingency Plan (CCP) approved by the MPCA VIC Program.

The soil cleanup activities at the Site included the removal of impacted soil from the vicinity of the transformer pad and the tower foundation. In addition, stained concrete from these two locations was also removed for disposal. Excavation areas are depicted on Figure 2. The following sections detail the cleanup activities associated with implementation of the response actions.

### 2.1 Site Preparation

Prior to starting work, all underground utilities were cleared through the Gopher One-Call service. ProSource also prepared a Health and Safety Plan (HASP) which all on-site personnel were required to read and sign prior to the start of work. All work was completed in Level D personal protective equipment (ppe). Air monitoring was conducted using a photoionization detector (PID).

### 2.2 Excavation, Trucking, and Disposal

ProSource field staff was on-site to supervise and direct field activities. To ensure the health and safety of on-site personnel, air monitoring was conducted using a PID. Organic vapor concentrations in the ambient air above background levels were not observed. Fugitive dust was controlled and noise, odors, and off-site tracking were minimized to the extent possible.

Excavation of impacted soil was conducted using a backhoe and began once the stained concrete was chipped from the transformer pad and tower foundation. Depth of the excavation near the transformer pad ranged from approximately one to two feet below grade while the excavation near the tower foundation reached a depth of ½-foot. Due to the lack of elevated organic vapor concentrations in the soil, the excavation was advanced based primarily on visual observations. Once it had been determined that soil was free of visual staining and elevated organic vapor concentrations it was directly loaded into the rolloff container for off-site disposal.

Approximately 10 cubic yards of contaminated soil and stained concrete were transported to SKB Rosemount Industrial Waste Facility in Rosemount, Minnesota for disposal. Disposal records are included in Appendix A.

### 2.3 Confirmatory Sampling

Due to the shallow depth of the tower foundation excavation, sidewall samples for headspace screening were not collected. Samples were screened for organic vapors on ½-foot intervals using a photoionization detector (PID). Headspace screening results are summarized on Table 1 with sampling locations depicted on Figure 2.

Once it had been determined that soil was free of visual staining and elevated organic vapor concentrations, confirmatory samples were collected from the excavation base and sidewalls in the transformer pad excavation and from the base of the tower foundation excavation. Samples were analyzed by En Chem, Inc. in Green Bay, Wisconsin for Benzene, Toluene, Ethylbenzene, Toluene (BTEX); Semi-Volatile Organic Compounds (SVOCs); Polychlorinated Biphenyls (PCBs); and Diesel Range Organics (DRO). Samples for BTEX, DRO, and PCB analysis were collected from all sampling locations while one sample for SVOC analysis was collected from each excavation base. Confirmatory sampling locations are shown on Figure 2.

### 2.3.1 Confirmatory Sampling Procedures

Soil samples for headspace screening were sealed in clean, Ziploc® bags and placed in a warm environment to allow organic vapors to develop. Soil samples were screened for organic vapors using a PID calibrated on a daily basis to an isobutylene standard.

Soil samples for laboratory analysis were field preserved (as required) and placed into clean, laboratory-supplied sample containers. Each sample container was uniquely numbered and labeled using indelible ink. Additional information on the label included the analytical parameters(s), preservatives(s), sampling personnel, date and time of sample collection and the project number. The label was then directly affixed to the appropriate sample container. Samples were placed on ice and maintained at a temperature of 4° C. A chain-of-custody was also initiated and kept with the samples until custody was relinquished to the laboratory.

A clean pair of latex or nitrile gloves was used at the onset of sampling activities at each new sampling point. Sampling personnel kept their hands as clean as practical and replaced gloves if they became soiled while performing sampling activities. Furthermore, sampling personnel took care not to touch the inside of sampling containers, inside of bottle caps, or the rim of sample containers. If contact occurred, sample containers were replaced. Care was also exercised to minimize the potential for airborne contamination of samples during collection.

### 2.3.2 Confirmatory Sampling Results

PCBs, BTEX, and SVOCs were not detected in any of the confirmatory samples collected. DRO was detected above the laboratory's method detection limit at eight of the nine sampling locations with concentrations ranging from below detection limits to a high of 58 mg/kg at SWS-1 (1-foot). SRVs have not yet been established for DRO. Per the MPCA's Gasoline Range Organics and Diesel Range Organics Policy, December 2004, DRO concentrations are primarily used by the VIC Program as indicator parameters or the presence of SVOCs. While a SVOC sample was not collected from SWS-1, a sample was collected from B-1 which was approximately three feet from SWS-1 and also had a detection of DRO. SVOC concentrations did not exceed the laboratory's method detection limit in B-1.

While an SRV has not been established for DRO, according to the MPCA's Petroleum Remediation Program (PRP) Fact Sheet 3.02, the action level for DRO or GRO is 50 mg/kg in sand or gravel and 100 mg/kg in silt or clay. The DRO action level for sand or gravel was slightly exceeded only at

SWS-1 in the sample collected from 1-foot below ground surface. Confirmatory sampling results are summarized in Table 2. Laboratory analytical reports are included in Appendix B.

#### 2.4 Site Construction

The current redevelopment plans call for use of the Site as a buffer property for the new runway to be built at the Minneapolis-St. Paul International Airport. Per the zoning ordinance and FAA regulations, construction of buildings on the Site will be prohibited. A road will be extended through the eastern portion of the site while the remainder of the property will be used as open space. Access to the Site will be strictly controlled. A fence will be erected around the runway protection zone and access will be limited only to a few authorized personnel.

Fill is expected to be added to the Site in order to complete a continuous slope from the northern boundary of the Site to the current ground surface at the southern boundary. Anticipated post-development topography at the Site is illustrated on Figure 3. Documents detailing the origin of the backfill to be used at the Site and/or a backfill sampling plan will be submitted with a No Association letter request by MAC immediately following submission of this report. Backfilling and grading activities will be summarized in the Annual Soil Management Report submitted to the MPCA by MAC as a requirement of their Soil Management Plan.



### 3.0 RECOMMENDATIONS AND CONCLUSIONS

The remedial actions succeeded in removing all visually stained soil and concrete from the Site. While DRO concentrations slightly exceeded the action levels at one of the sampling locations, SVOC concentrations were not detected in any of the confirmatory samples collected from the Site and organic vapor concentrations did not exceed background concentrations in the soil remaining in-place. As part of the Site's future development, the locations with elevated DRO concentrations will be covered with approximately two to three feet of clean fill, eliminating the direct contact pathway for exposure. In addition, access to the Site will be limited in accordance with FAA guidelines. This will eliminate the majority of human interaction with the Site.

Based on the nature of the release, the absence of DRO in shallow ground water at the Site, the removal of the source area soil, and the institutional controls, this site does not seem to pose a significant risk to human health or the environment. Therefore, we are proposing that a "No Further Action" letter and a "File Closure" letter be issued for the Site.

4.0 CERTIFICATION

ProSource has prepared this DRAP Implementation Report for the exclusive use of Xcel Energy and their agents, for specific application to the Bloomington Substation Site located in Bloomington, Minnesota. The services performed by ProSource for this project have been conducted in a manner consistent with the level of skill and care ordinarily exercised by other members of the profession currently practicing in this area. No other warranty, expressed or implied, is made.

Name and Title:

Signature:

Date Signed:

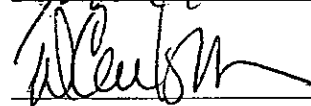
David J. Hodek, P.E. - Project Engineer

*for*



3/14/05

Wade A. Carlson, P.G. - Principal



3/14/05

Company Mailing Address:

ProSource Technologies, Inc.

9219 East River Road NW

Coon Rapids, Minnesota 55433

Phone:

(763) 786-1445

Fax:

(763) 786-1030

**TABLE 1**  
**HEADSPACE SCREENING RESULTS**

Bloomington Substation - DRAP Implementation Report

Xcel Energy

Bloomington, MN

ProSource Project No.: 237-05

Location	Date	Depth (feet)	Headspace (ppm)	Comments
B-1	7-Dec-04	1	0.0	
B-1	7-Dec-04	2	0.0	Analytical Sample Collected
B-2	7-Dec-04	1	0.0	
B-2	7-Dec-04	2	0.0	Analytical Sample Collected
B-3	7-Dec-04	1	0.0	
B-3	7-Dec-04	1.5	0.1	
B-4	7-Dec-04	1	0.0	
B-5	7-Dec-04	0.5	0.1	Analytical Sample Collected
B-6	7-Dec-04	0.5	0.0	Analytical Sample Collected
SWN-1	7-Dec-04	1	0.2	
SWN-2	7-Dec-04	1	0.0	Analytical Sample Collected
SWE-1	7-Dec-04	1	0.0	Analytical Sample Collected
SWW-1	7-Dec-04	1	0.0	Analytical Sample Collected
SWS-1	7-Dec-04	1	0.0	Analytical Sample Collected

**TABLE 2**  
**CONFIRMATORY SAMPLING RESULTS**  
 DRAP Implementation Report  
 Xcel Energy Bloomington Substation  
 Bloomington, MN  
 ProSource Project No.: 237-05

Parameters	Units	Tier 1 Residential SRVs	B-1 2 feet	B-2 2 feet	B-5 0.5 feet	B-6 0.5 feet	SWN-2 1 foot	SWS-1 1 foot	SWW-1 1 foot	SWE-1 1 foot
<b>Diesel Range Organics (DRO)</b>	mg/Kg	NE	3.6	5.3	11	40	<3.3	58	3.6	5.4
<b>BTEX</b>										
Benzene	ug/Kg	1500	<26	<27	<27	<27	<27	<27	<28	<27
Ethylbenzene	ug/Kg	200000	<26	<27	<27	<27	<27	<27	<28	<27
Toluene	ug/Kg	107000	<26	<27	<27	<27	<27	<27	<28	<27
Xylene, o	ug/Kg	110000	<26	<27	<27	<27	<27	<27	<28	<27
Xylene, m & p	ug/Kg	110000	<26	<27	<27	<27	<27	<27	<28	<27
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	mg/Kg	NE	ND	NA	ND	NA	NA	NA	NA	NA
<b>Polychlorinated Biphenyls (PCBs)</b>										
<i>Aroclor 1016</i>	mg/Kg	1.2	<53	<54	<54	<54	<54	<54	<55	<54
<i>Aroclor 1221</i>	mg/Kg	1.2	<53	<54	<54	<54	<54	<54	<55	<54
<i>Aroclor 1232</i>	mg/Kg	1.2	<53	<54	<54	<54	<54	<54	<55	<54
<i>Aroclor 1242</i>	mg/Kg	1.2	<53	<54	<54	<54	<54	<54	<55	<54
<i>Aroclor 1248</i>	mg/Kg	1.2	<53	<54	<54	<54	<54	<54	<55	<54
<i>Aroclor 1254</i>	mg/Kg	1.2	<53	<54	<54	<54	<54	<54	<55	<54
<i>Aroclor 1260</i>	mg/Kg	1.2	<53	<54	<54	<54	<54	<54	<55	<54
<i>Total PCBs</i>	mg/Kg	1.2	<53	<54	<54	<54	<54	<54	<55	<54

mg/Kg = milligrams per kilogram which equals parts per million (ppm)

ug/Kg = micrograms per kilogram which equals parts per billion (ppb)

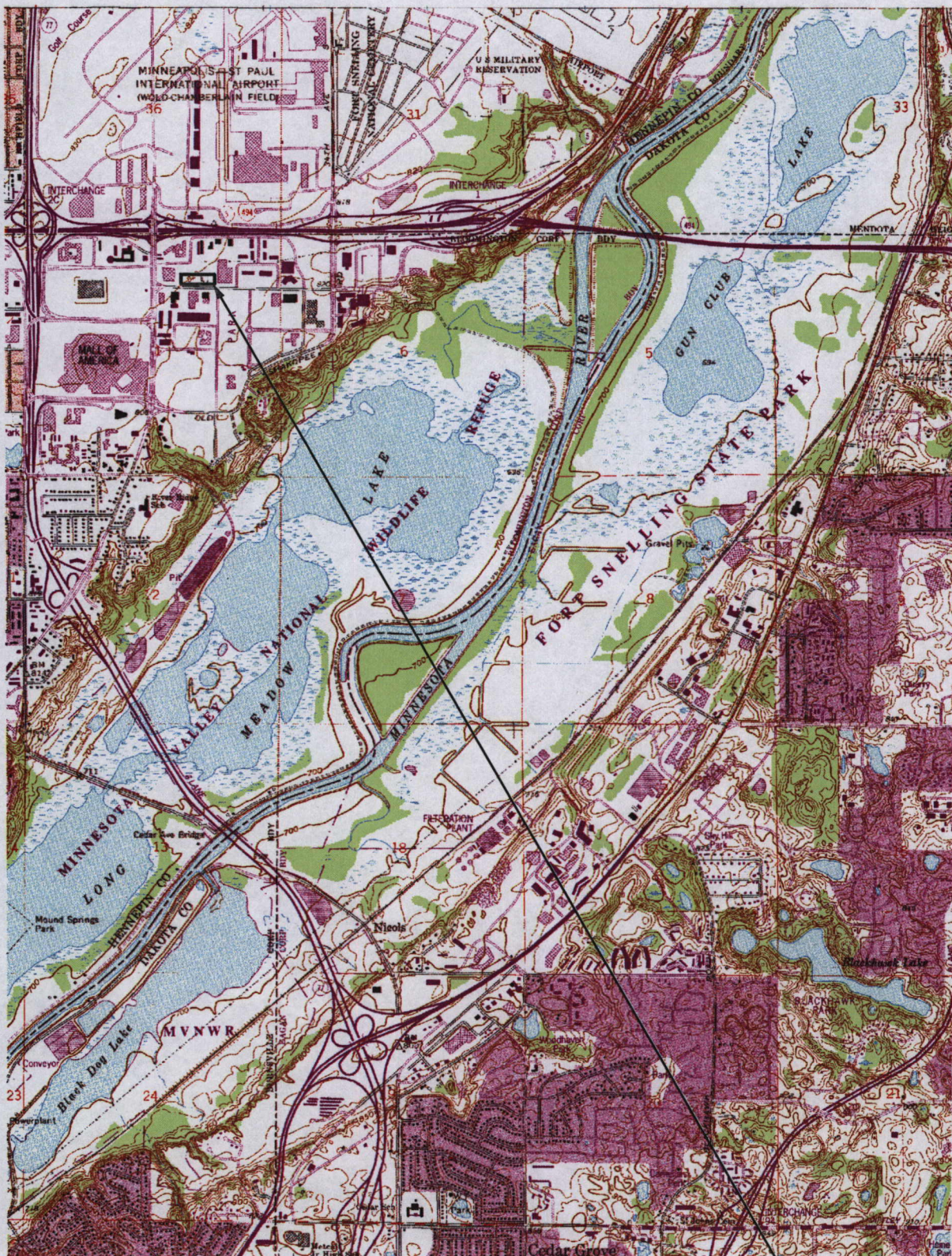
SRV = MPCA Soil Reference Value

**BOLD** indicates detected value is greater than the SRV

NE = Not established

NA = Not analyzed for this parameter

ND indicates that each of the SVOC individual compounds was detected below (less than) laboratory detection limits



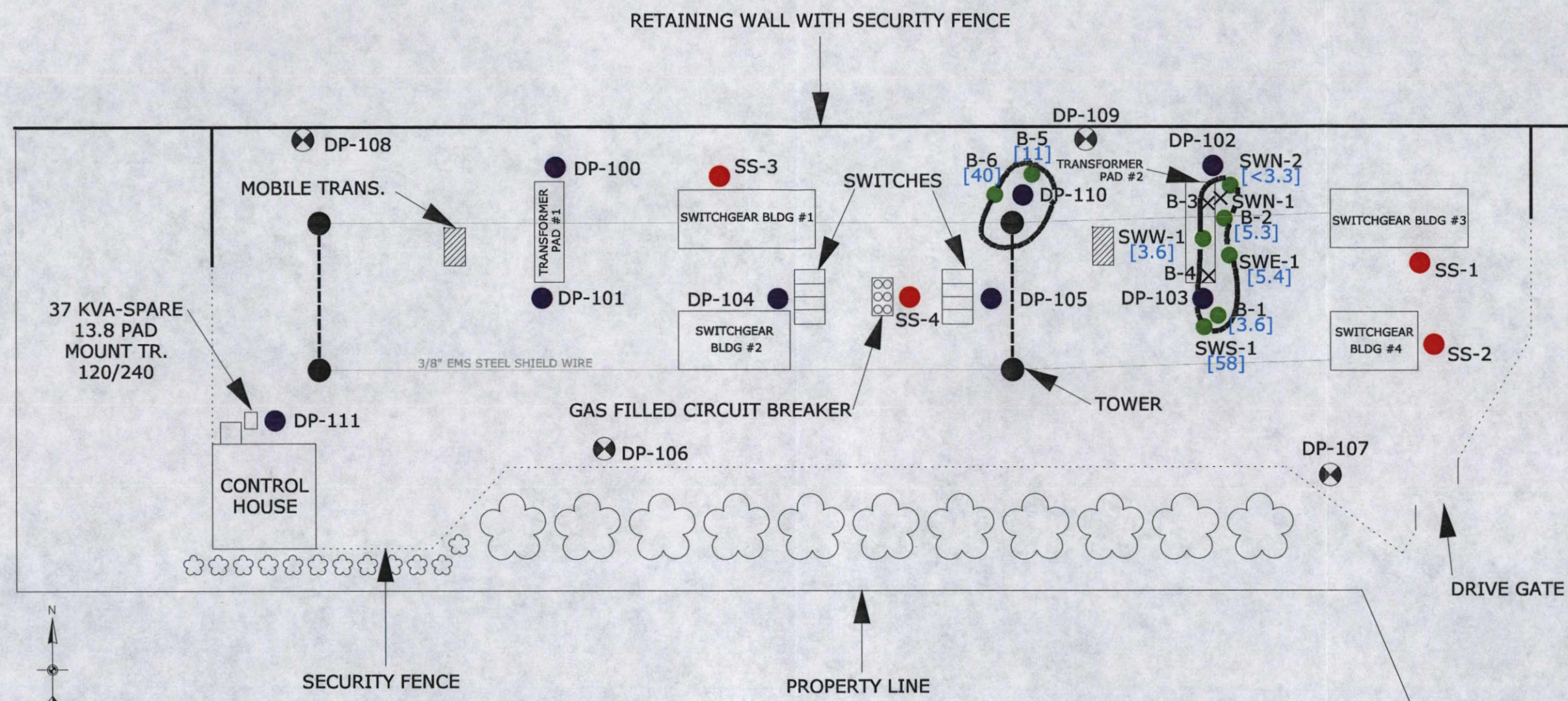
SITE LOCATION

SOURCE: USGS ST. PAUL SOUTHWEST 7.5 MINUTE QUAD MAP

DRAP IMPLEMENTATION REPORT  
 Xcel Energy Power Company  
 Bloomington Substation  
 2700 East 80th Street  
 Bloomington, Minnesota 55425  
 ProSource Project No.: 237-05

FIGURE 1  
 SITE LOCATION

**ProSource**  
 TECHNOLOGIES, INC.



**LEGEND**

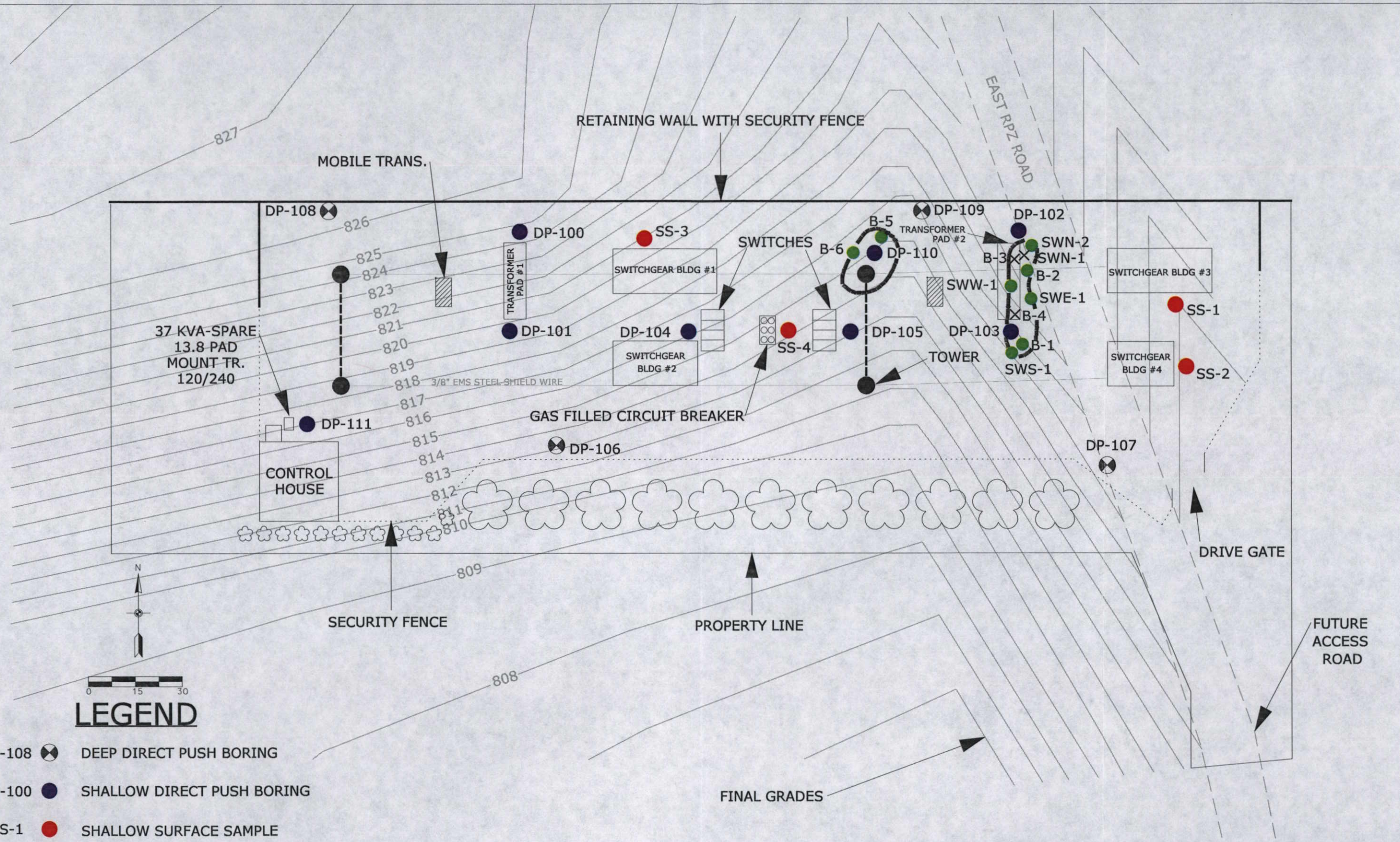
- DP-108 DEEP DIRECT PUSH BORING
- DP-100 SHALLOW DIRECT PUSH BORING
- SS-1 SHALLOW SURFACE SAMPLE
- B-4 CONFIRMATION SAMPLE LOCATION
- HEADSPACE SCREENING LOCATION
- EXCAVATION AREAS

[<3.3] DRO CONCENTRATION IN SOIL (mg/kg)

DRAP IMPLEMENTATION REPORT  
 Xcel Energy Power Company  
 Bloomington Substation  
 2700 East 80th Street  
 Bloomington, Minnesota 55425  
 ProSource Project No.: 237-05

FIGURE 2  
 SITE MAP WITH  
 DRO CONCENTRATION  
 IN SOIL





**LEGEND**

- DP-108 DEEP DIRECT PUSH BORING
- DP-100 SHALLOW DIRECT PUSH BORING
- SS-1 SHALLOW SURFACE SAMPLE
- B-4 CONFIRMATION SAMPLE LOCATION
- X HEADSPACE SCREENING LOCATION
- EXCAVATION AREAS

DRAP IMPLEMENTATION REPORT  
 Xcel Energy Power Company  
 Bloomington Substation  
 2700 East 80th Street  
 Bloomington, Minnesota 55425  
 ProSource Project No.: 237-05

FIGURE 3  
 POST DEVELOPMENT  
 FINAL GRADING PLAN





# SKB Rosemount Industrial Waste Facility

Manifest #

097842

## Shipping Manifest

1. Generator's US EPA ID No. (if any)

2. Page 1 of 1 page(s)

3. Generator's Name and Facility Address

Mailing Address

Blomington Sub  
2700 East 80th Street  
Blomington, MN  
612-332-6493414 Nicolet Mall  
App. MN 55401  
612-370-6357

4. Generator's Phone

Fax

5. Transporter 1 Company Name

Veight Companies

Phone:

6. Transporter 2 Company Name

Phone:

7. Designated Facility Name and Site Address

SKB Rosemount Industrial Waste Facility  
13425 Courthouse Blvd.  
Rosemount, MN 55068  
651-438-1500

8. U.S. DOT Description (including Proper Shipping Name)

9. Containers

10. Total Quantity

11. Unit Wt/Vol

12. Waste Profile Sheet #

a. Non Regulated Spill Cleanup  
(Soil + Concrete)

601 CN 10 TN 920133

b.

c.

d.

13. Additional Descriptions for Materials Listed Above (indicate waste stream Approval # below)

a. MI 92-0003-17  
b. MI  
c. MI  
d. MI

14. Special Handling Procedures for Wastes Listed Above

15. Special Handling Instructions and Additional Information

SKB Use Only

Load #

Scale Wt.

Tons/Yds.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Printed/Typed Name

Signature

Month Day Year

Al Peterson

Al Peterson

11 20 15 10 15

17. Transporter 1 Acknowledged of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Ken Wundt

Ken Wundt

11 20 15 10 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this Manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

White - Return to Generator

Green - Facility Copy

Canary - Transporter #2

Pink Transporter #1

Goldenrod - Generator Copy

GENERATOR

TRANSPORTER

FACILITY



Please Print Legibly

Company Name: ProSource

Branch or Location: Coon Rapids, MN

Project Contact: DAVE HODER

Telephone: 763-786-1445

Project Number: \_\_\_\_\_

Project Name: Bloomington Substation

Project State: MN

Sampled By (Print): DAVE HODER

PO #: \_\_\_\_\_



1241 Bellevue St., Suite 9  
Green Bay, WI 54302  
920-469-2436  
Fax 920-469-8827

# CHAIN OF CUSTODY No 124913

Page 1 of 1

Quote #: \_\_\_\_\_

Mail Report To: DAVE HODER

Company: ProSource

Address: \_\_\_\_\_

Invoice To: SAME

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Mail Invoice To: SAME

### Data Package Options - (please circle if requested)

Sample Results Only (no QC)

EPA Level II (Subject to Surcharge)

EPA Level III (Subject to Surcharge)

EPA Level IV (Subject to Surcharge)

### Regulatory Program

UST  
RCRA  
SDWA  
NPDES  
CERCLA

### Matrix Codes

W=Water  
S=Soil  
A=Air  
C=Charcoal  
B=Biota  
Sl=Sludge

\*Preservation Codes  
 A=None B=HCL C=H2SO4 D=HN03 E=EnCore F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO) \_\_\_\_\_

PRESERVATION (CODE)\* \_\_\_\_\_

ANALYSES REQUESTED

BTEX  
DRO  
PCB  
SVOC  
Total Solids

TOTAL # OF BOTTLES SENT

LABORATORY ID (Lab Use Only)	FIELD ID		COLLECTION		MATRIX	ANALYSES REQUESTED										TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	
			DATE	TIME		BTEX	DRO	PCB	SVOC	Total Solids									
001	B-1	2'	12/7/04		S	X	X	X	X	X							5	1-8oz amber <sup>A</sup> , 2-2oz <sup>FA</sup> , 1-10z <sup>A</sup>	
002	B-2	2'				X	X	X		X							4		
003	B-5	0.5'				X	X	X	X	X							5	2-8oz amber <sup>AA</sup>	
004	B-6	0.5'				X	X	X	X	X							4	1-8oz amber <sup>A</sup>	
005	SWN-2	1'				X	X	X		X							4		
006	SWS-1	1'				X	X	X		X							4		
007	SWW-1	1'				X	X	X		X							4		
008	SWE-1	1'				X	X	X		X							4		

Rush Turnaround Time Requested (TAT) - Prelim  
(Rush TAT subject to approval/surcharge)

Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (circle):  
 Phone  Fax  E-Mail

Phone #: \_\_\_\_\_

Fax #: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: Dunham 12/9/04 0835 Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: Willy Buzky 12-8- 12/9/04 0835 Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

En Chem Project No. 1200 854309

Sample Receipt Temp. 20.0°C

Sample Receipt pH (Wet/Metals) NA

Cooler Custody Seal Present / Not Present

Intact / Not Intact

\*NO METH blank rec'd 12/9/04 AB



A Division of Pace Analytical Services, Inc.

1241 Bellevue Street, Suite 9  
Green Bay, WI 54302  
920-469-2436, Fax: 920-469-8827

### Analytical Report Number: 854309

Client: PROSOURCE TECHNOLOGIES

Lab Contact: Tom Trainor

Project Name: BLOOMINGTON SUBSTATION

Project Number:

Lab Sample Number	Field ID	Matrix	Collection Date
854309-001	B-1 2'	SOIL	12/07/04
854309-002	B-2 2'	SOIL	12/07/04
854309-003	B-5 0.5'	SOIL	12/07/04
854309-004	B-6 0.5'	SOIL	12/07/04
854309-005	SWN-2 1'	SOIL	12/07/04
854309-006	SWS-1 1'	SOIL	12/07/04
854309-007	SWW-1 1'	SOIL	12/07/04
854309-008	SWE-1 1'	SOIL	12/07/04

MS/MSD: If the Form 3 header for the MS/MSD QC indicates that the MS/MSD was "Batch QC", then the MS/MSD results may not be directly applicable to your samples

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

Approval Signature

Date

# En Chem

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : PROSOURCE TECHNOLOGIES  
Project Name : BLOOMINGTON SUBSTATION  
Project Number :  
Field ID : B-1 2'

Matrix Type : SOIL  
Collection Date : 12/07/04  
Report Date : 12/23/04  
Lab Sample Number : 854309-001

### INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	95.0	---	1	%		12/10/04	SM 2540G M	SM 2540G M

### DIESEL RANGE ORGANICS

Prep Date: 12/10/04

Preservation Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	3.6	3.3	1	mg/kg		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank	< 5.0	5.0	1	mg/kg		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike	89	---	1	%Recov		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	84	---	1	%Recov		12/16/04	WI MOD DRO	WI MOD DRO

### BTEX

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 26	26	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Ethylbenzene	< 26	26	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Toluene	< 26	26	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylene, o	< 26	26	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylenes, m + p	< 26	26	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
a,a,a-Trifluorotoluene	103	---	1	%Recov		12/10/04	5035/5030B	SW846 M8021B

### BTEX BLANK

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1555-71		1					

### SEMIVOLATILES - 3.4 TCL LIST

Prep Date:

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trichlorobenzene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
1,2-Dichlorobenzene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
1,3-Dichlorobenzene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
1,4-Dichlorobenzene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,2'-oxybis(1-Chloropropane)	< 350	350	1	ug/Kg	&	12/14/04	SW846 3545	SW846 8270C
2,4,5-Trichlorophenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,4,6-Trichlorophenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,4-Dichlorophenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,4-Dimethylphenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,4-Dinitrophenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,4-Dinitrotoluene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,6-Dinitrotoluene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2-Chloronaphthalene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2-Chlorophenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2-Methylnaphthalene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2-Methylphenol	< 350	350	1	ug/Kg	&	12/14/04	SW846 3545	SW846 8270C
2-Nitroaniline	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2-Nitrophenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
3,3-Dichlorobenzidine	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
3 & 4-Methylphenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
3-Nitroaniline	< 350	350	1	ug/Kg	&	12/14/04	SW846 3545	SW846 8270C
4,6-Dinitro-2-methylphenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
4-Bromophenyl Phenyl Ether	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
4-Chloro-3-methylphenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

# En Chem

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : PROSOURCE TECHNOLOGIES

Project Name : BLOOMINGTON SUBSTATION

Project Number :

Field ID : B-1 2'

Matrix Type : SOIL

Collection Date : 12/07/04

Report Date : 12/23/04

Lab Sample Number : 854309-001

### SEMIVOLATILES - 3.4 TCL LIST

Prep Date:

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
4-Chloroaniline	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
4-Chlorophenyl Phenyl Ether	< 870	870	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
4-Nitroaniline	< 870	870	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
4-Nitrophenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Acenaphthene	< 870	870	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Acenaphthylene	< 870	870	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Anthracene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Benzo(a)anthracene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Benzo(a)pyrene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Benzo(b)fluoranthene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Benzo(ghi)perylene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Benzo(k)fluoranthene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
bis(2-Chloroethoxy)methane	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
bis(2-Chloroethyl)ether	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
bis(2-Ethylhexyl)phthalate	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Butylbenzylphthalate	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Carbazole	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Chrysene	< 350	350	1	ug/Kg	&	12/14/04	SW846 3545	SW846 8270C
Dibenz(a,h)anthracene	< 350	350	1	ug/Kg	&*	12/14/04	SW846 3545	SW846 8270C
Dibenzofuran	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Diethylphthalate	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Dimethylphthalate	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Di-n-butylphthalate	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Di-n-octylphthalate	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Fluoranthene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Fluorene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Hexachlorobenzene	< 710	710	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Hexachlorobutadiene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Hexachlorocyclopentadiene	< 710	710	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Hexachloroethane	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Isophorone	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Naphthalene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Nitrobenzene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
N-Nitrosodi-n-propylamine	< 350	350	1	ug/Kg	&	12/14/04	SW846 3545	SW846 8270C
N-Nitrosodiphenylamine	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Pentachlorophenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Phenanthrene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Phenol	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Pyrene	< 350	350	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
1,2-Dichlorobenzene-d4	34	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
Nitrobenzene-d5	44	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
2,4,6-Tribromophenol	67	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
2-Chlorophenol-d4	49	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
2-Fluorobiphenyl	64	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
2-Fluorophenol	45	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
Phenol-d5	50	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
Terphenyl-d14	60	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

# En Chem

A Division of Pace Analytical Services, Inc.

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

Client : PROSOURCE TECHNOLOGIES

Project Name : BLOOMINGTON SUBSTATION

Project Number :

Field ID : B-1 2'

Matrix Type : SOIL

Collection Date : 12/07/04

Report Date : 12/23/04

Lab Sample Number : 854309-001

PCB		Prep Date: 12/20/04							
Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method	
Aroclor 1016	< 53	53	1	ug/Kg		12/21/04	SW846 3550B	SW846 8082	
Aroclor 1221	< 53	53	1	ug/Kg		12/21/04	SW846 3550B	SW846 8082	
Aroclor 1232	< 53	53	1	ug/Kg		12/21/04	SW846 3550B	SW846 8082	
Aroclor 1242	< 53	53	1	ug/Kg		12/21/04	SW846 3550B	SW846 8082	
Aroclor 1248	< 53	53	1	ug/Kg		12/21/04	SW846 3550B	SW846 8082	
Aroclor 1254	< 53	53	1	ug/Kg		12/21/04	SW846 3550B	SW846 8082	
Aroclor 1260	< 53	53	1	ug/Kg		12/21/04	SW846 3550B	SW846 8082	
Total PCBs	< 53	53	1	ug/Kg		12/21/04	SW846 3550B	SW846 8082	
Tetrachloro-m-xylene	107	---	1	%Recov		12/21/04	SW846 3550B	SW846 8082	
Decachlorobiphenyl	119	---	1	%Recov		12/21/04	SW846 3550B	SW846 8082	

# En Chem

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : PROSOURCE TECHNOLOGIES

Project Name : BLOOMINGTON SUBSTATION

Project Number :

Field ID : B-2 2'

Matrix Type : SOIL

Collection Date : 12/07/04

Report Date : 12/23/04

Lab Sample Number : 854309-002

### INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	93.0	---	1	%		12/10/04	SM 2540G M	SM 2540G M

### DIESEL RANGE ORGANICS

Prep Date: 12/10/04

Preservation Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	5.3	3.5	1	mg/kg		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank	< 5.0	5.0	1	mg/kg		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike	89	---	1	%Recov		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	84	---	1	%Recov		12/16/04	WI MOD DRO	WI MOD DRO

### BTEX

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Ethylbenzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Toluene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylene, o	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylenes, m + p	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
a,a,a-Trifluorotoluene	103	---	1	%Recov		12/10/04	5035/5030B	SW846 M8021B

### BTEX BLANK

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1555-71		1					

### PCB

Prep Date: 12/15/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Aroclor 1016	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1221	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1232	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1242	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1248	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1254	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1260	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Total PCBs	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Tetrachloro-m-xylene	118	---	1	%Recov		12/19/04	SW846 3550B	SW846 8082
Decachlorobiphenyl	130	---	1	%Recov	F	12/19/04	SW846 3550B	SW846 8082

# En Chem

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : PROSOURCE TECHNOLOGIES  
Project Name : BLOOMINGTON SUBSTATION  
Project Number :  
Field ID : B-5 0.5'

Matrix Type : SOIL  
Collection Date : 12/07/04  
Report Date : 12/23/04  
Lab Sample Number : 854309-003

### INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	92.2	---	1	%		12/10/04	SM 2540G M	SM 2540G M

### DIESEL RANGE ORGANICS

Prep Date: 12/10/04

Preservation Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	11	3.2	1	mg/kg		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank	< 5.0	5.0	1	mg/kg		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike	89	---	1	%Recov		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	84	---	1	%Recov		12/16/04	WI MOD DRO	WI MOD DRO

### BTEX

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Ethylbenzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Toluene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylene, o	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylenes, m + p	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
a,a,a-Trifluorotoluene	102	---	1	%Recov		12/10/04	5035/5030B	SW846 M8021B

### BTEX BLANK

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1555-71		1					

### SEMIVOLATILES - 3.4 TCL LIST

Prep Date: 12/14/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trichlorobenzene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
1,2-Dichlorobenzene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
1,3-Dichlorobenzene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
1,4-Dichlorobenzene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,2'-oxybis(1-Chloropropane)	< 360	360	1	ug/Kg	&	12/14/04	SW846 3545	SW846 8270C
2,4,5-Trichlorophenol	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,4,6-Trichlorophenol	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,4-Dichlorophenol	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,4-Dimethylphenol	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,4-Dinitrophenol	< 360	360	1	ug/Kg	N*	12/14/04	SW846 3545	SW846 8270C
2,4-Dinitrotoluene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2,6-Dinitrotoluene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2-Chloronaphthalene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2-Chlorophenol	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2-Methylnaphthalene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2-Methylphenol	< 360	360	1	ug/Kg	&	12/14/04	SW846 3545	SW846 8270C
2-Nitroaniline	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
2-Nitrophenol	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
3,3-Dichlorobenzidine	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
3 & 4-Methylphenol	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
3-Nitroaniline	< 360	360	1	ug/Kg	&	12/14/04	SW846 3545	SW846 8270C
4,6-Dinitro-2-methylphenol	< 360	360	1	ug/Kg	N*	12/14/04	SW846 3545	SW846 8270C
4-Bromophenyl Phenyl Ether	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
4-Chloro-3-methylphenol	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

# En Chem

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : PROSOURCE TECHNOLOGIES  
Project Name : BLOOMINGTON SUBSTATION  
Project Number :  
Field ID : B-5 0.5'

Matrix Type : SOIL  
Collection Date : 12/07/04  
Report Date : 12/23/04  
Lab Sample Number : 854309-003

### SEMIVOLATILES - 3.4 TCL LIST

Prep Date: 12/14/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
4-Chloroaniline	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
4-Chlorophenyl Phenyl Ether	< 900	900	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
4-Nitroaniline	< 900	900	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
4-Nitrophenol	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Acenaphthene	< 900	900	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Acenaphthylene	< 900	900	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Anthracene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Benzo(a)anthracene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Benzo(a)pyrene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Benzo(b)fluoranthene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Benzo(ghi)perylene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Benzo(k)fluoranthene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
bis(2-Chloroethoxy)methane	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
bis(2-Chloroethyl)ether	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
bis(2-Ethylhexyl)phthalate	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Butylbenzylphthalate	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Carbazole	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Chrysene	< 360	360	1	ug/Kg	N&	12/14/04	SW846 3545	SW846 8270C
Dibenz(a,h)anthracene	< 360	360	1	ug/Kg	N&*	12/14/04	SW846 3545	SW846 8270C
Dibenzofuran	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Diethylphthalate	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Dimethylphthalate	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Di-n-butylphthalate	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Di-n-octylphthalate	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Fluoranthene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Fluorene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Hexachlorobenzene	< 730	730	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Hexachlorobutadiene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Hexachlorocyclopentadiene	< 730	730	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Hexachloroethane	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Isophorone	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Naphthalene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Nitrobenzene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
N-Nitrosodi-n-propylamine	< 360	360	1	ug/Kg	N&	12/14/04	SW846 3545	SW846 8270C
N-Nitrosodiphenylamine	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Pentachlorophenol	< 360	360	1	ug/Kg	N*	12/14/04	SW846 3545	SW846 8270C
Phenanthrene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Phenol	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
Pyrene	< 360	360	1	ug/Kg		12/14/04	SW846 3545	SW846 8270C
1,2-Dichlorobenzene-d4	34	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
Nitrobenzene-d5	47	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
2,4,6-Tribromophenol	45	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
2-Chlorophenol-d4	52	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
2-Fluorobiphenyl	55	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
2-Fluorophenol	46	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
Phenol-d5	48	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C
Terphenyl-d14	62	---	1	%Recov		12/14/04	SW846 3545	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.



# En Chem

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : PROSOURCE TECHNOLOGIES

Project Name : BLOOMINGTON SUBSTATION

Project Number :

Field ID : B-5 0.5'

Matrix Type : SOIL

Collection Date : 12/07/04

Report Date : 12/23/04

Lab Sample Number : 854309-003

### SEMIVOLATILES BLANK

Prep Date: 12/14/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
SVOC Blank ID	1430-97		1			12/14/04		

### PCB

Prep Date: 12/15/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Aroclor 1016	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1221	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1232	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1242	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1248	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1254	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1260	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Total PCBs	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Tetrachloro-m-xylene	108	---	1	%Recov		12/19/04	SW846 3550B	SW846 8082
Decachlorobiphenyl	115	---	1	%Recov		12/19/04	SW846 3550B	SW846 8082

# En Chem

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : PROSOURCE TECHNOLOGIES  
Project Name : BLOOMINGTON SUBSTATION  
Project Number :  
Field ID : B-6 0.5'

Matrix Type : SOIL  
Collection Date : 12/07/04  
Report Date : 12/23/04  
Lab Sample Number : 854309-004

### INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	93.2	—	1	%		12/10/04	SM 2540G M	SM 2540G M

### DIESEL RANGE ORGANICS

Prep Date: 12/10/04

Preservation Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	40	3.4	1	mg/kg		12/15/04	WI MOD DRO	WI MOD DRO
DRO Blank	< 5.0	5.0	1	mg/kg		12/15/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike	89	—	1	%Recov		12/15/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	84	—	1	%Recov		12/15/04	WI MOD DRO	WI MOD DRO

### BTEX

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Ethylbenzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Toluene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylene, o	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylenes, m + p	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
a,a,a-Trifluorotoluene	102	—	1	%Recov		12/10/04	5035/5030B	SW846 M8021B

### BTEX BLANK

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1555-71		1					

### PCB

Prep Date: 12/15/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Aroclor 1016	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1221	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1232	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1242	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1248	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1254	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1260	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Total PCBs	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Tetrachloro-m-xylene	104	—	1	%Recov		12/19/04	SW846 3550B	SW846 8082
Decachlorobiphenyl	113	—	1	%Recov		12/19/04	SW846 3550B	SW846 8082

All soil results are reported on a dry weight basis unless otherwise noted.

# En Chem

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : PROSOURCE TECHNOLOGIES

Project Name : BLOOMINGTON SUBSTATION

Project Number :

Field ID : SWN-2 1'

Matrix Type : SOIL

Collection Date : 12/07/04

Report Date : 12/23/04

Lab Sample Number : 854309-005

### INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	92.4	---	1	%		12/10/04	SM 2540G M	SM 2540G M

### DIESEL RANGE ORGANICS

Prep Date: 12/10/04

Preservation Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 3.3	3.3	1	mg/kg		12/15/04	WI MOD DRO	WI MOD DRO
DRO Blank	< 5.0	5.0	1	mg/kg		12/15/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike	89	---	1	%Recov		12/15/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	84	---	1	%Recov		12/15/04	WI MOD DRO	WI MOD DRO

### BTEX

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Ethylbenzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Toluene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylene, o	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylenes, m + p	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
a,a,a-Trifluorotoluene	103	---	1	%Recov		12/10/04	5035/5030B	SW846 M8021B

### BTEX BLANK

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1555-71		1					

### PCB

Prep Date: 12/15/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Aroclor 1016	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1221	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1232	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1242	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1248	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1254	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1260	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Total PCBs	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Tetrachloro-m-xylene	113	---	1	%Recov		12/19/04	SW846 3550B	SW846 8082
Decachlorobiphenyl	113	---	1	%Recov		12/19/04	SW846 3550B	SW846 8082

# En Chem

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : PROSOURCE TECHNOLOGIES  
Project Name : BLOOMINGTON SUBSTATION  
Project Number :  
Field ID : SWS-1 1'

Matrix Type : SOIL  
Collection Date : 12/07/04  
Report Date : 12/23/04  
Lab Sample Number : 854309-006

### INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	92.4	---	1	%		12/10/04	SM 2540G M	SM 2540G M

### DIESEL RANGE ORGANICS

Prep Date: 12/10/04

Preservation Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	58	3.6	1	mg/kg		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank	< 5.0	5.0	1	mg/kg		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike	89	---	1	%Recov		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	84	---	1	%Recov		12/16/04	WI MOD DRO	WI MOD DRO

### BTEX

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Ethylbenzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Toluene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylene, o	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylenes, m + p	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
a,a,a-Trifluorotoluene	103	---	1	%Recov		12/10/04	5035/5030B	SW846 M8021B

### BTEX BLANK

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1555-71 /		1					

### PCB

Prep Date: 12/15/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Aroclor 1016	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1221	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1232	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1242	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1248	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1254	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1260	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Total PCBs	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Tetrachloro-m-xylene	107	---	1	%Recov		12/19/04	SW846 3550B	SW846 8082
Decachlorobiphenyl	116	---	1	%Recov		12/19/04	SW846 3550B	SW846 8082

# En Chem

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : PROSOURCE TECHNOLOGIES  
Project Name : BLOOMINGTON SUBSTATION  
Project Number :  
Field ID : SWW-1 1'

Matrix Type : SOIL  
Collection Date : 12/07/04  
Report Date : 12/23/04  
Lab Sample Number : 854309-007

### INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	90.6	---	1	%		12/10/04	SM 2540G M	SM 2540G M

### DIESEL RANGE ORGANICS

Prep Date: 12/10/04

Preservation Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	3.6	3.2	1	mg/kg		12/15/04	WI MOD DRO	WI MOD DRO
DRO Blank	< 5.0	5.0	1	mg/kg		12/15/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike	89	---	1	%Recov		12/15/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	84	---	1	%Recov		12/15/04	WI MOD DRO	WI MOD DRO

### BTEX

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 28	28	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Ethylbenzene	< 28	28	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Toluene	< 28	28	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylene, o	< 28	28	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylenes, m + p	< 28	28	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
a,a,a-Trifluorotoluene	102	---	1	%Recov		12/10/04	5035/5030B	SW846 M8021B

### BTEX BLANK

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1555-71		1					

### PCB

Prep Date: 12/15/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Aroclor 1016	< 55	55	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1221	< 55	55	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1232	< 55	55	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1242	< 55	55	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1248	< 55	55	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1254	< 55	55	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1260	< 55	55	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Total PCBs	< 55	55	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Tetrachloro-m-xylene	102	---	1	%Recov		12/19/04	SW846 3550B	SW846 8082
Decachlorobiphenyl	112	---	1	%Recov		12/19/04	SW846 3550B	SW846 8082

# En Chem

## Analytical Report Number: 854309

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : PROSOURCE TECHNOLOGIES

Project Name : BLOOMINGTON SUBSTATION

Project Number :

Field ID : SWE-1 1'

Matrix Type : SOIL

Collection Date : 12/07/04

Report Date : 12/23/04

Lab Sample Number : 854309-008

### INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	93.0	---	1	%		12/10/04	SM 2540G M	SM 2540G M

### DIESEL RANGE ORGANICS

Prep Date: 12/10/04

Preservation Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	5.4	3.5	1	mg/kg		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank	< 5.0	5.0	1	mg/kg		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike	89	—	1	%Recov		12/16/04	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	84	—	1	%Recov		12/16/04	WI MOD DRO	WI MOD DRO

### BTEX

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Ethylbenzene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Toluene	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylene, o	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
Xylenes, m + p	< 27	27	50	ug/kg		12/10/04	5035/5030B	SW846 M8021B
a,a,a-Trifluorotoluene	102	—	1	%Recov		12/10/04	5035/5030B	SW846 M8021B

### BTEX BLANK

Prep Date: 12/10/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1555-71		1					

### PCB

Prep Date: 12/15/04

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Aroclor 1016	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1221	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1232	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1242	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1248	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1254	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Aroclor 1260	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Total PCBs	< 54	54	1	ug/Kg		12/19/04	SW846 3550B	SW846 8082
Tetrachloro-m-xylene	111	—	1	%Recov		12/19/04	SW846 3550B	SW846 8082
Decachlorobiphenyl	116	---	1	%Recov		12/19/04	SW846 3550B	SW846 8082

# En Chem

A Division of Pace Analytical Services, Inc.

1241 Bellevue Street  
Green Bay, WI 54302  
920-469-2436  
Fax: 920-469-8827

Lab Number	TestGroupID	Field ID	Comment
854309-001	DRO-S	B-1 2'	Late eluting hump along with diesel range peaks were present in the chromatogram.
854309-002	DRO-S	B-2 2'	Late eluting hump along with diesel range peaks were present in the chromatogram.
854309-003	BTEX-S-ME	B-5 0.5'	Sample received overweight (37.7 grams).
854309-003	DRO-S	B-5 0.5'	Late eluting hump along with diesel range peaks were present in the chromatogram.
854309-004	DRO-S	B-6 0.5'	Late eluting hump along with diesel range peaks were present in the chromatogram.
854309-006	BTEX-S-ME	SWS-1 1'	Sample received overweight (42.1 grams).
854309-006	DRO-S	SWS-1 1'	Late eluting hump along with diesel range peaks were present in the chromatogram.
854309-007	DRO-S	SWW-1 1'	Late eluting hump along with diesel range peaks were present in the chromatogram.
854309-008	BTEX-S-ME	SWE-1 1'	Sample received overweight (38.6 grams).
854309-008	DRO-S	SWE-1 1'	Late eluting hump along with diesel range peaks were present in the chromatogram.

## Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
J	Organic	Concentration detected is greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.



# En Chem

A Division of Pace Analytical Services, Inc.

## Analysis Summary by Laboratory

1241 Bellevue Street  
Green Bay, WI 54302

1090 Kennedy Avenue  
Kimberly, WI 54136

Test Group Name	854309-001	854309-002	854309-003	854309-004	854309-005	854309-006	854309-007	854309-008
BTEX	G	G	G	G	G	G	G	G
BTEX BLANK	G	G	G	G	G	G	G	G
DIESEL RANGE ORGANICS	G	G	G	G	G	G	G	G
PCB	K	K	K	K	K	K	K	K
PERCENT SOLIDS	G	G	G	G	G	G	G	G
SEMIVOLATILES - 3.4 TCL LIST	G	G						
SEMIVOLATILES BLANK			G					

### Minnesota Certification

G = En Chem Green Bay	055-999-334
K = En Chem Kimberly	055-999-107
S = En Chem Superior	Not Applicable
C = Subcontracted Analysis	

Date : 16-DEC-2004 00:28

Client ID: 854309-001

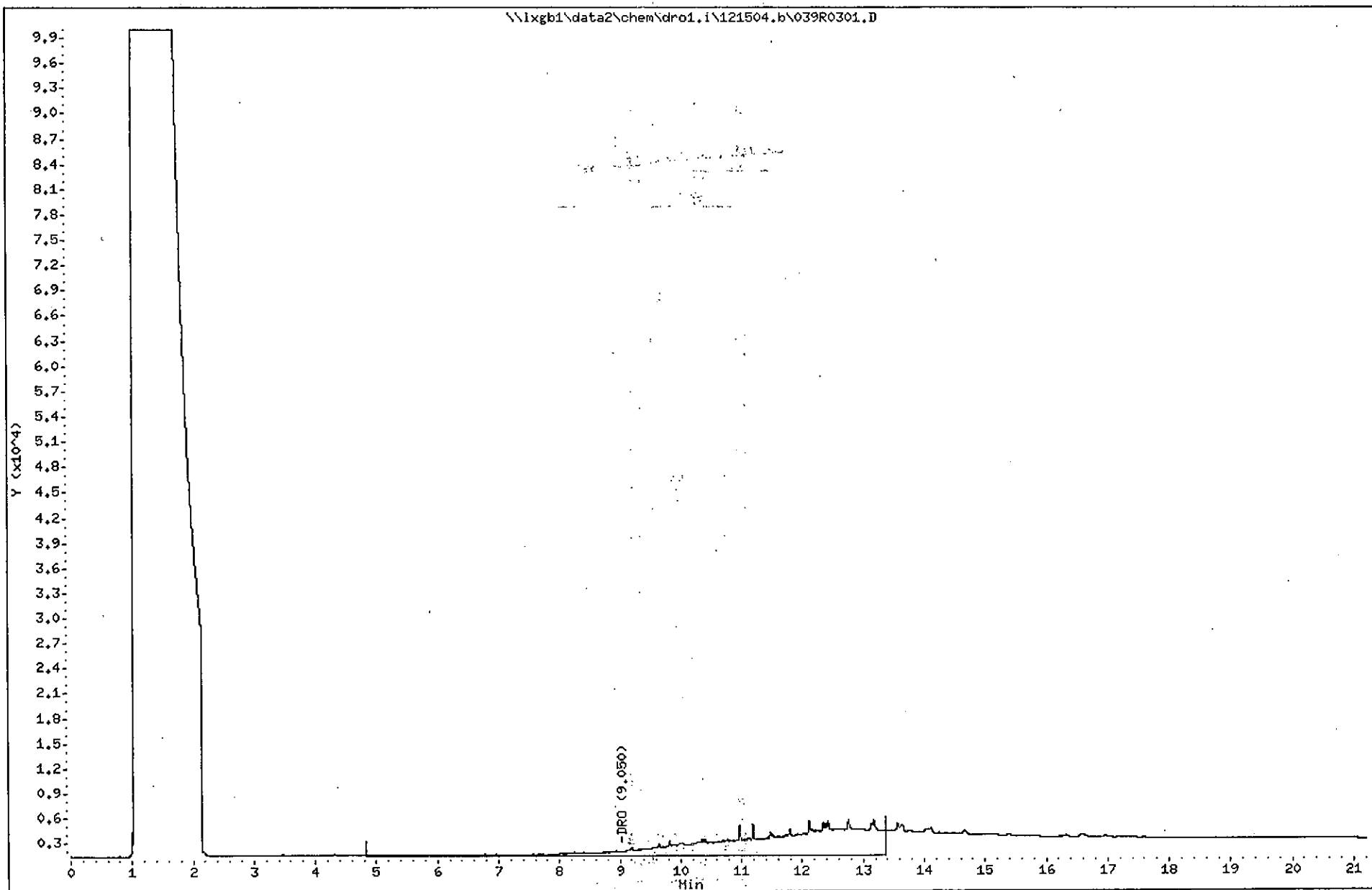
Sample Info: 54309D001SLX1

Instrument: dro1.i

Operator: SVM

Column diameter: 0.53

Column phase: RTX-5/I.G.



Data File: \\l\gb1\data2\chem\dro1.i\121504.b\041R0301.D

Page 2

Date : 16-DEC-2004 01:22

Client ID: 854309-002

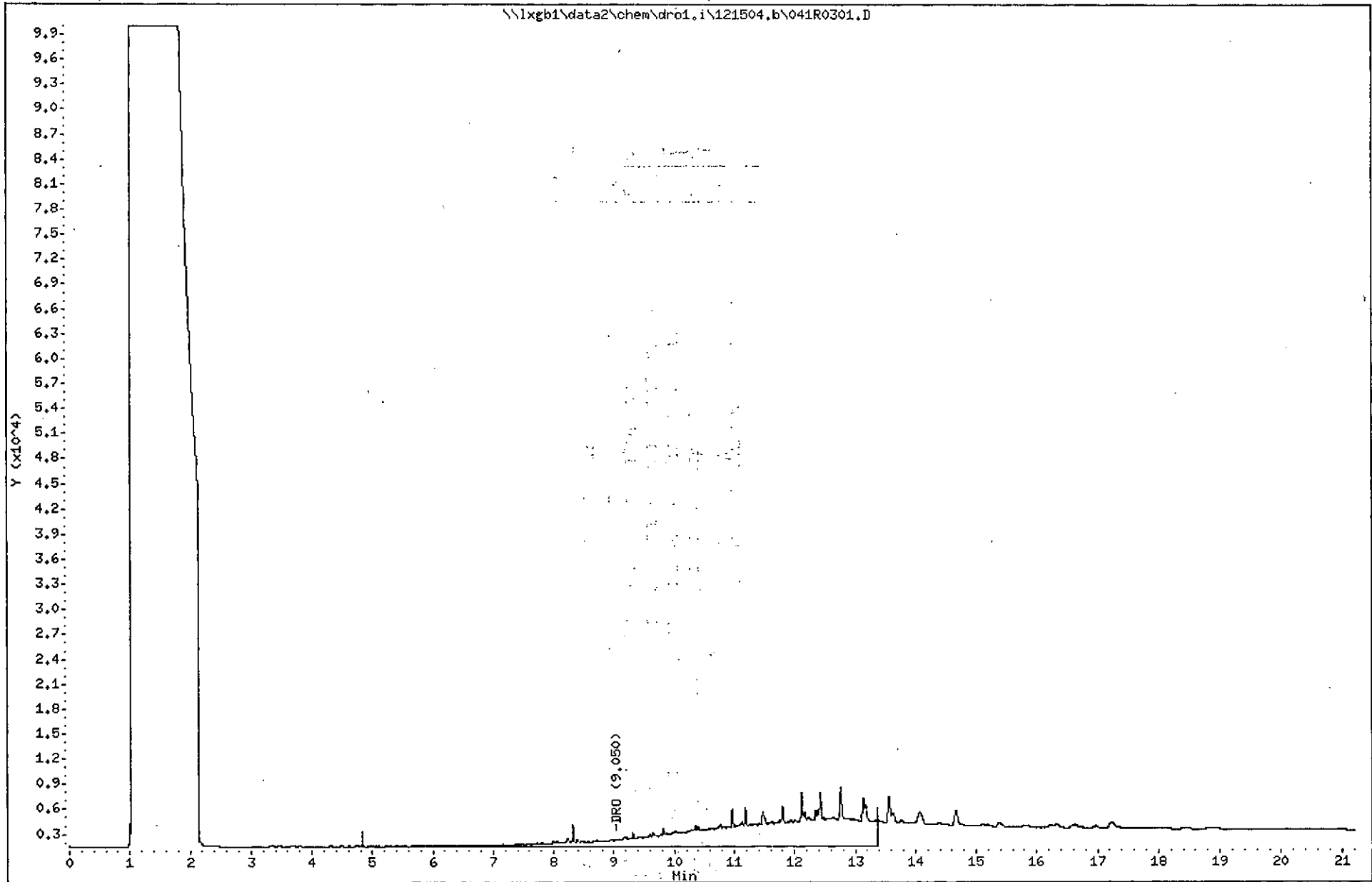
Sample Info: 54309D002SLX1

Instrument: dro1.i

Operator: SVM

Column diameter: 0.53

Column phase: RTX-5/I.G.



Date : 16-DEC-2004 00:55

Client ID: 854309-003

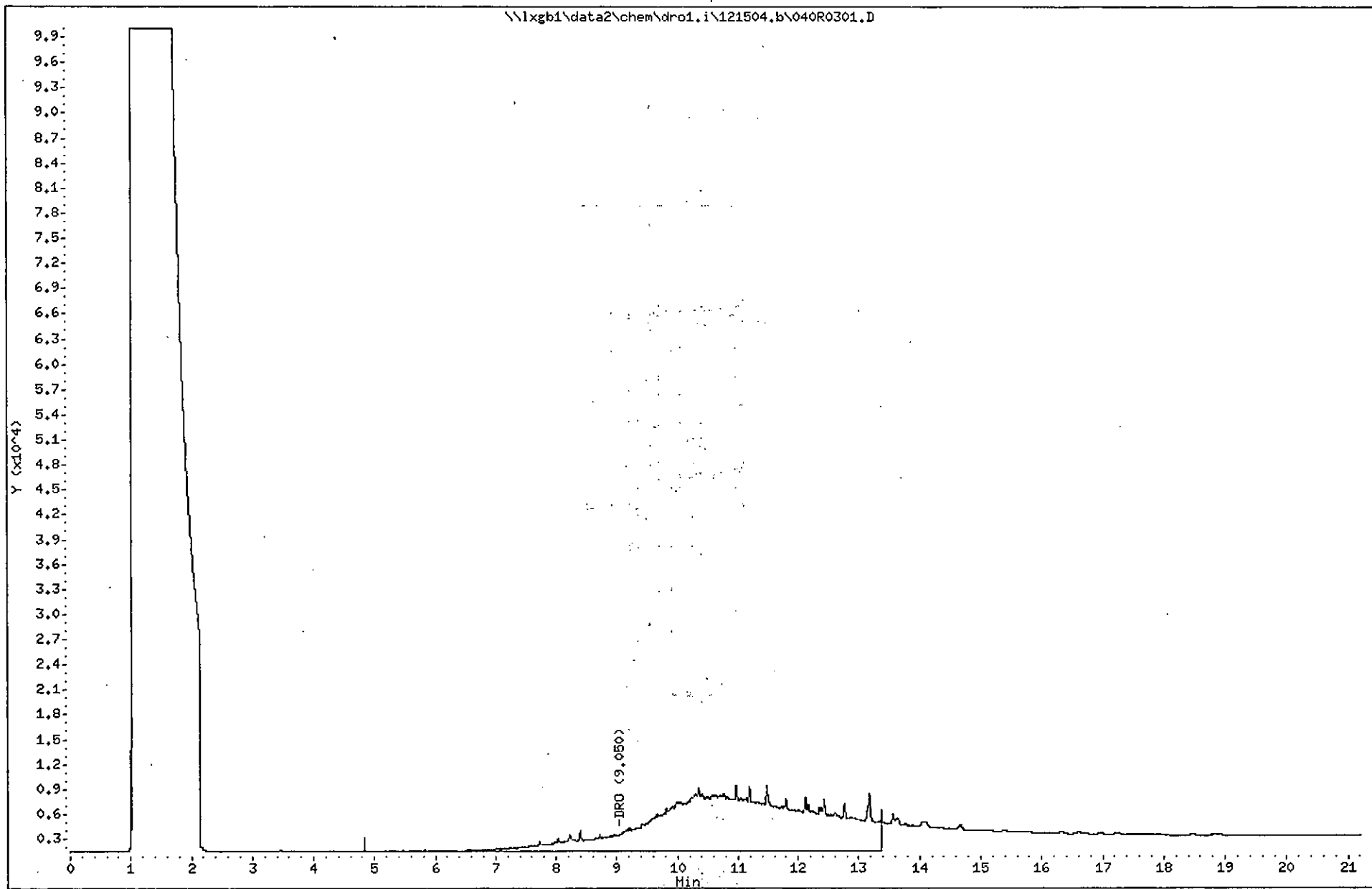
Sample Info: 54309D003SLX1

Instrument: dro1.i

Operator: SVH

Column diameter: 0.53

Column phase: RTX-5/I.G.



Date : 15-DEC-2004 23:35

Client ID: 854309-004

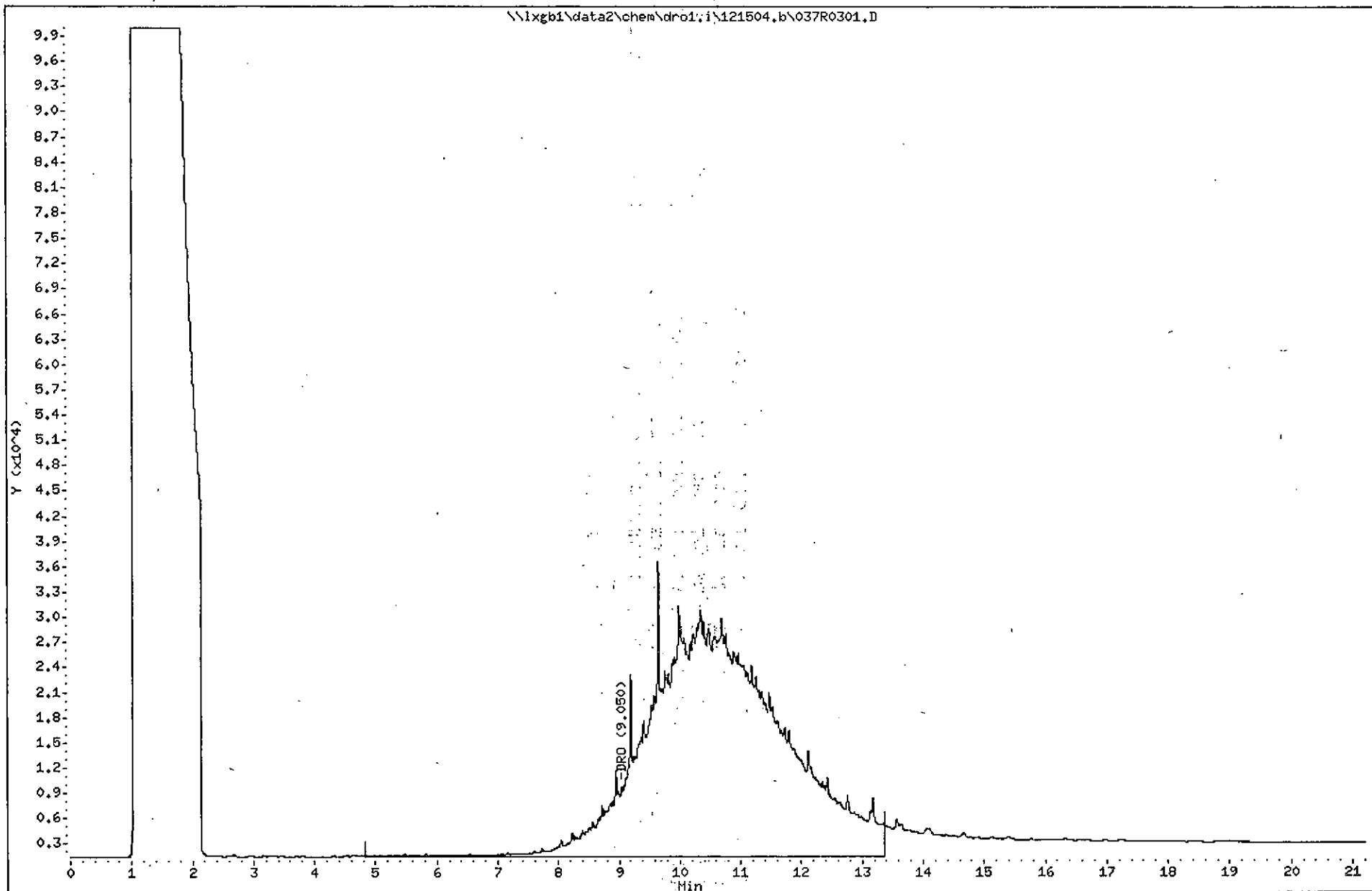
Instrument: dro1.i

Sample Info: 54309D004SLX1

Operator: SVM

Column phase: RTX-5/I.G.

Column diameter: 0.53



Date : 15-DEC-2004 23:08

Client ID: 854309-005

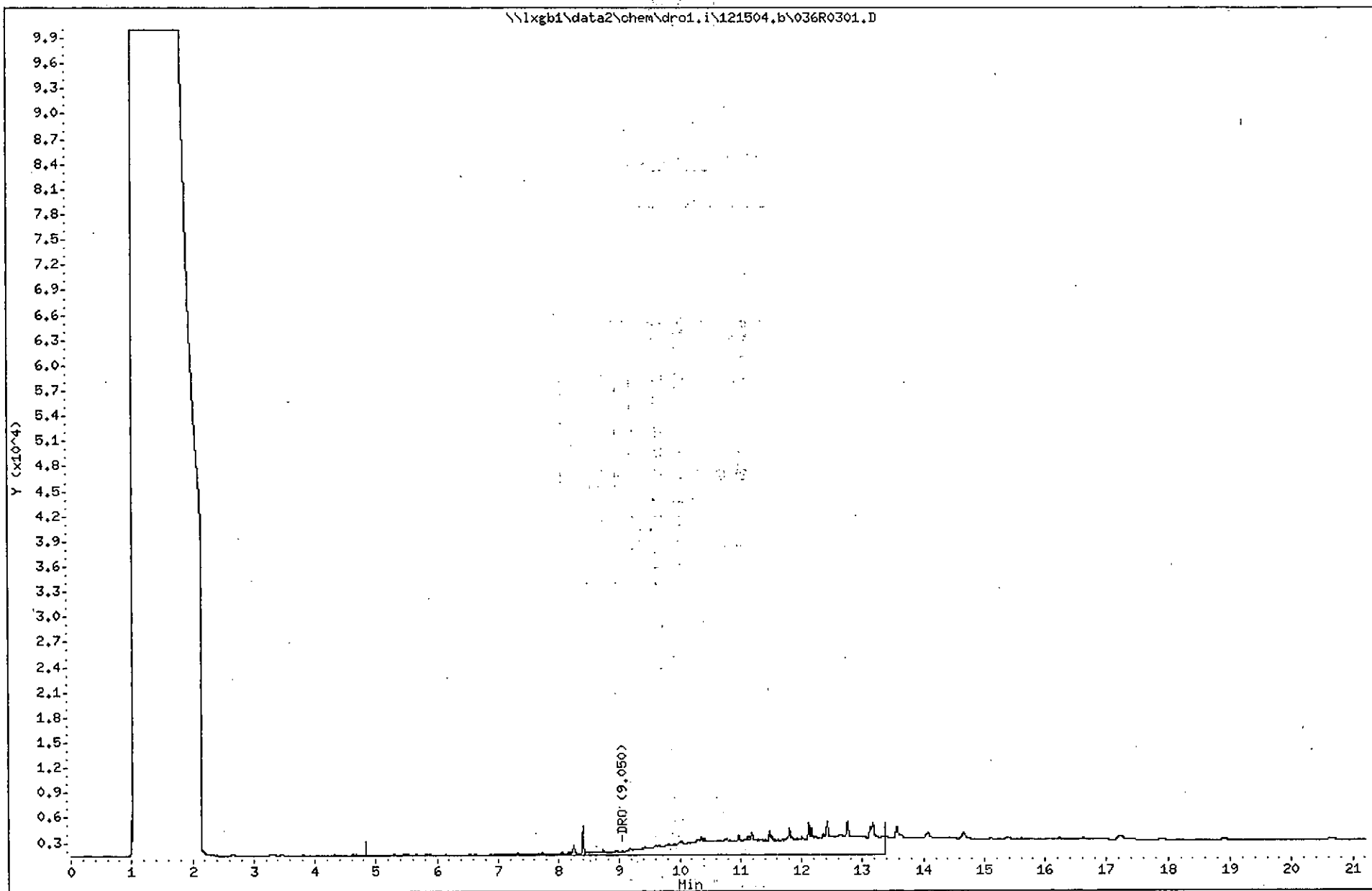
Sample Info: 54309D005SLX1

Instrument: dro1.i

Operator: SVH

Column diameter: 0.53

Column phase: RTX-5/I.G.



Date : 16-DEC-2004 00:02

Client ID: 854309-006

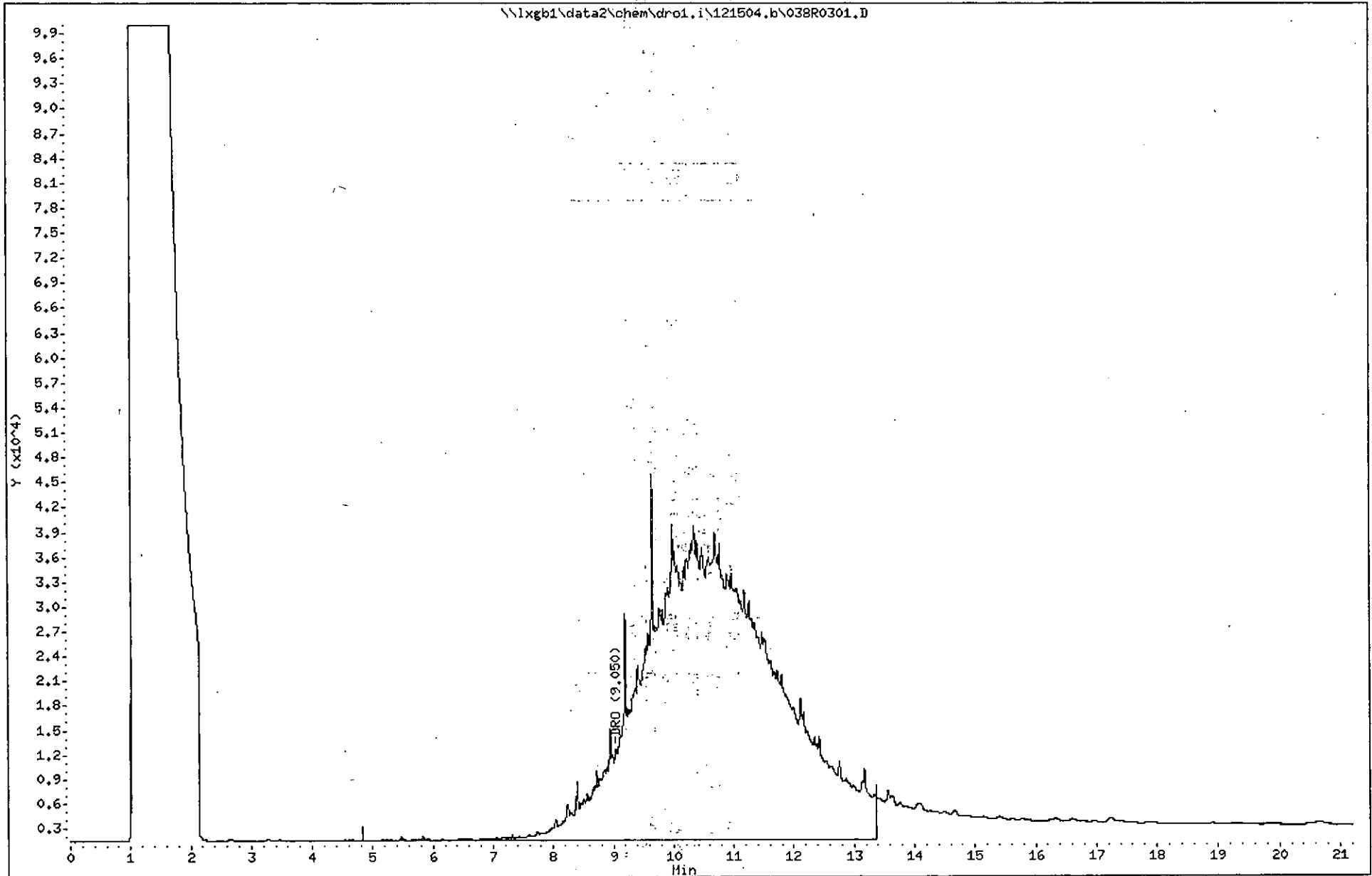
Sample Info: 54309D006SLX1

Instrument: dro1.i

Operator: SVM

Column diameter: 0.53

Column phase: RTX-5/I.G.



Date : 15-DEC-2004 20:55

Client ID: 854309-007

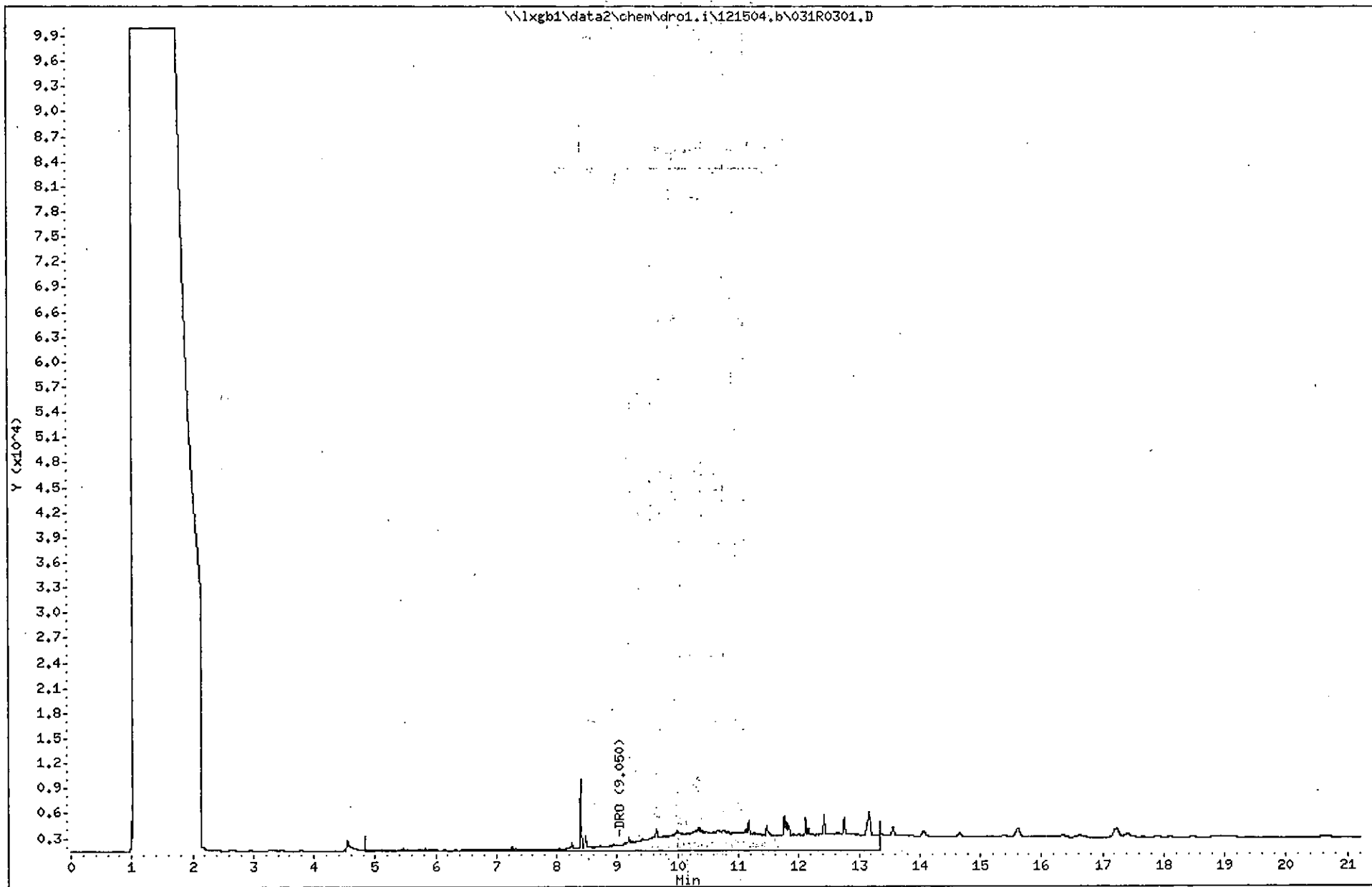
Sample Info: 54309D007SLX1

Instrument: dro1.i

Operator: SVM

Column diameter: 0.53

Column phase: RTX-5/I.G.





Date : 16-DEC-2004 01:48

Client ID: 854309-008

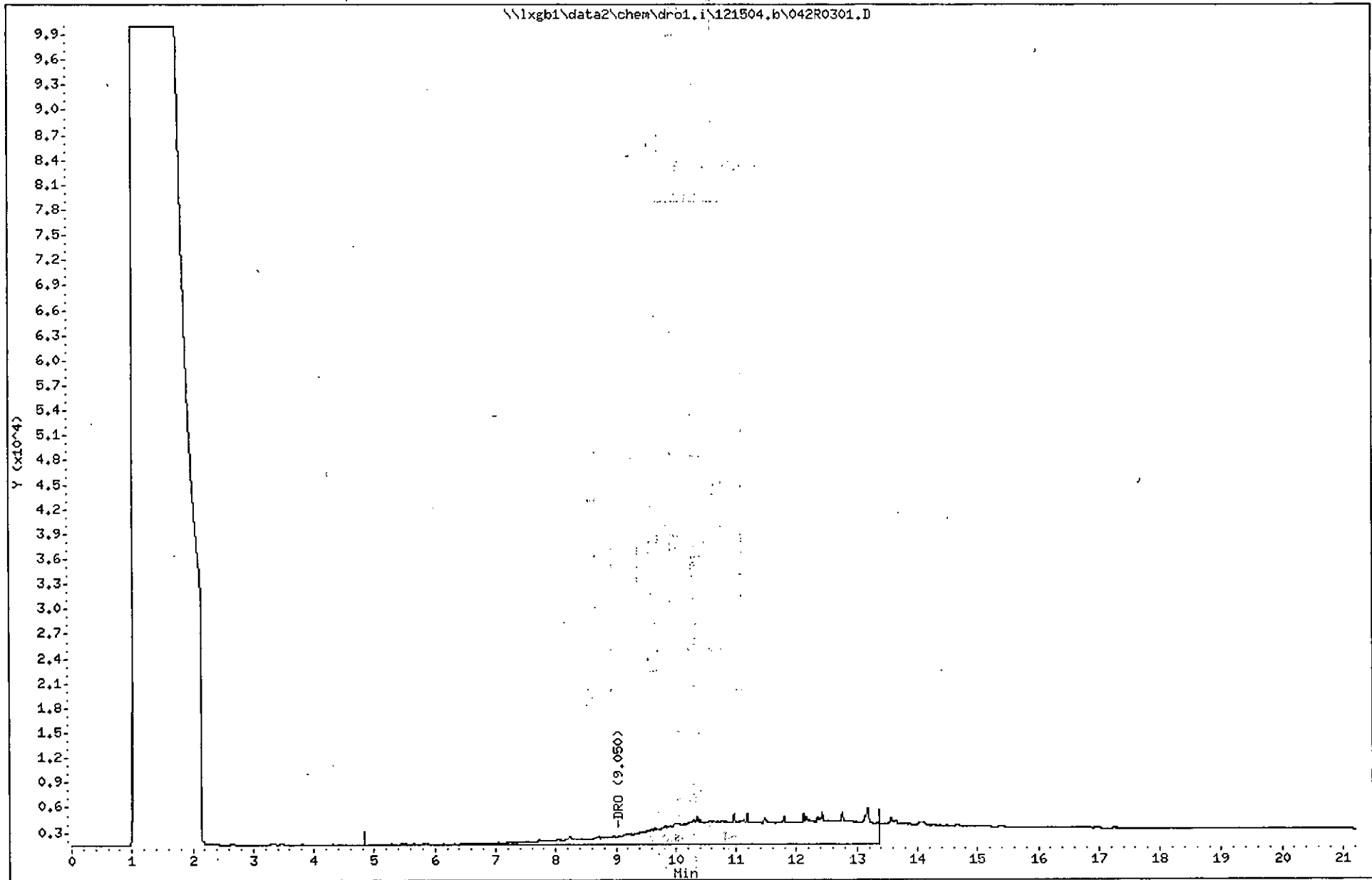
Sample Info: 54309D008SLX1

Instrument: dro1.i

Operator: SVH

Column diameter: 0.53

Column phase: RTX-5/I.G.



FORM 1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BLK1430-97

Lab Name: ENCHEM

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 854309

Matrix: (soil/water) SOIL

Lab Sample ID: BLK1430-97

Sample wt/vol: \_\_\_\_\_ (g/mL) G

Lab File ID: 12140404

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 12/14/04

Concentrated Extract Volume: \_\_\_\_\_ (uL)

Date Analyzed: 12/14/04

Injection Volume: \_\_\_\_\_ (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) PPB

CAS NO.	COMPOUND	Q
108-95-2	Phenol	102 U
111-44-4	bis(2-Chloroethyl) ether	99 U
95-57-8	2-Chlorophenol	107 U
541-73-1	1,3-Dichlorobenzene	72 U
106-46-7	1,4-Dichlorobenzene	78 U
95-50-1	1,2-Dichlorobenzene	80 U
95-48-7	2-Methylphenol	85 U
108-60-1	2,2-oxybis(1-Chloropropane)	86 U
106-44-5	4-Methylphenol	83 U
67-72-1	Hexachloroethane	67 U
621-64-7	N-Nitroso-di-n-propylamine	84 U
98-95-3	Nitrobenzene	97 U
78-59-1	Isophorone	83 U
88-75-5	2-Nitrophenol	88 U
105-67-9	2,4-Dimethylphenol	83 U
111-91-1	bis(2-Chloroethoxy)methane	89 U
120-83-2	2,4-Dichlorophenol	94 U
120-82-1	1,2,4-Trichlorobenzene	89 U
91-20-3	Naphthalene	93 U
106-47-8	4-Chloroaniline	74 U
87-68-3	Hexachlorobutadiene	81 U
59-50-7	4-Chloro-3-methylphenol	81 U
91-57-6	2-Methylnaphthalene	94 U
77-47-4	Hexachlorocyclopentadiene	47 U
88-06-2	2,4,6-Trichlorophenol	82 U
95-95-4	2,4,5-Trichlorophenol	93 U
91-58-7	2-Chloronaphthalene	93 U
88-74-4	2-Nitroaniline	75 U
131-11-3	Dimethylphthalate	76 U
208-96-8	Acenaphthylene	79 U
606-20-2	2,6-Dinitrotoluene	74 U
99-09-2	3-Nitroaniline	53 U
83-32-9	Acenaphthene	80 U

FORM 1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BLK1430-97

Lab Name: ENCHEM

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 854309

Matrix: (soil/water) SOIL

Lab Sample ID: BLK1430-97

Sample wt/vol: \_\_\_\_\_ (g/mL) G

Lab File ID: 12140404

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 12/14/04

Concentrated Extract Volume: \_\_\_\_\_ (uL)

Date Analyzed: 12/14/04

Injection Volume: \_\_\_\_\_ (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPB	Q
51-28-5	2,4-Dinitrophenol	118	U
132-64-9	Dibenzofuran	77	U
100-02-7	4-Nitrophenol	98	U
121-14-2	2,4-Dinitrotoluene	74	U
84-66-2	Diethylphthalate	76	U
86-73-7	Fluorene	77	U
7005-72-3	4-Chlorophenyl phenyl ether	78	U
100-01-6	4-Nitroaniline	80	U
534-52-1	4,6-Dinitro-2-methylphenol	74	U
86-30-6	N-Nitrosodiphenylamine (1)	188	U
101-55-3	4-Bromophenyl phenyl ether	77	U
118-74-1	Hexachlorobenzene	78	U
87-86-5	Pentachlorophenol	67	U
85-01-8	Phenanthrene	80	U
120-12-7	Anthracene	74	U
86-74-8	Carbazole	88	U
84-74-2	di-n-Butylphthalate	102	U
206-44-0	Fluoranthene	92	U
129-00-0	Pyrene	68	U
85-68-7	Butylbenzylphthalate	77	U
56-55-3	Benzo(a)anthracene	81	U
91-94-1	3,3'-Dichlorobenzidine	87	U
218-01-9	Chrysene	78	U
117-81-7	bis(2-Ethylhexyl)phthalate	79	U
117-84-0	di-n-Octylphthalate	118	U
205-99-2	Benzo(b)fluoranthene	90	U
207-08-9	Benzo(k)fluoranthene	76	U
50-32-8	Benzo(a)pyrene	79	U
193-39-5	Indeno(1,2,3-cd)pyrene	51	U
53-70-3	Dibenzo(a,h)anthracene	51	U
191-24-2	Benzo(g,h,i)perylene	47	U

(1) - Cannot be separated from Diphenylamine

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: EN CHEM

Contract:

BLKU 1555-71

Lab Code: ENCHEMGB Case No.:

SAS No.:

SDG No.: GRO2-121004

Matrix: (soil/water) SOIL

Lab Sample ID: BLKU 1555-71

Sample wt/vol: 20.0 (g/mL) G

Lab File ID: 008F0201

Level: (low/med) MED

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/10/04

GC Column: DB-624 ID: 0.32 (mm)

Dilution Factor: 50.0

Soil Extract Volume: 20 (mL)

Soil Aliquot Volume: 1000 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

1634-04-4-----	Methyl tert-butyl ether	25.00	U
71-43-2-----	Benzene	25.00	U
108-88-3-----	Toluene	25.00	U
100-41-4-----	Ethylbenzene	25.00	U
108-38-3-----	m/p-Xylene	50.00	U
95-47-6-----	o-Xylene	25.00	U
108-67-8-----	1,3,5-Trimethylbenzene	25.00	U
95-63-6-----	1,2,4-Trimethylbenzene	25.00	U
91-20-3-----	Naphthalene	33.54	NA
-----	Total Xylenes	75.00	U

Effective Date: July 14, 2002

Surrogates  
En Chem - Green Bay

Revised: 8/17/2004

GC VOA	Aqueous		Low Level Solids		Methanol Solids	
	LCL	UCL	LCL	UCL	LCL	UCL
$\alpha,\alpha,\alpha$ -Trifluorotoluene	80	124	65	139	80	119

GCMS VOA	Aqueous		Low Level Solids		Methanol Solids	
	LCL	UCL	LCL	UCL	LCL	UCL
Dibromofluoromethane	69	140	59	105	62	123
Toluene-d <sub>8</sub>	72	137	63	118	73	123
4-Bromofluorobenzene	65	133	44	107	66	119

GCMS PAH	Aqueous		Solids	
	LCL	UCL	LCL	UCL
Nitrobenzene-d <sub>5</sub>	10	136	20	119
2-Fluorobiphenyl	14	111	30	97
Terphenyl-d <sub>14</sub>	46	137	41	119

GCMS BNA	Aqueous		Solids	
	LCL	UCL	LCL	UCL
2-Fluorophenol	13	70	35	113
Phenol-d <sub>5</sub>	8	44	29	114
2-Chlorophenol-d <sub>4</sub>	29	104	34	107
1,2-Dichlorobenzene-d <sub>4</sub>	34	112	27	116
Nitrobenzene-d <sub>5</sub>	34	126	32	118
2-Fluorobiphenyl	36	126	26	126
2,4,6-Tribromophenol	39	133	17	129
Terphenyl-d <sub>14</sub>	56	139	23	141

GC PCB	Aqueous		Solids	
	LCL	UCL	LCL	UCL
Decachlorobiphenyl	22	133	11	142

TPH Diesel	Aqueous		Solids	
	LCL	UCL	LCL	UCL
o - Terphenyl	33	133	34	106

TPH Gas	Aqueous		Solids	
	LCL	UCL	LCL	UCL
$\alpha,\alpha,\alpha$ -Trifluorotoluene	80	124	69	146

## En Chem, Inc. Cooler Receipt Log

Batch No. 854309

Project Name or ID Bloomington Substation No. of Coolers: 1 Temps: ROI 0°C

A. Receipt Phase: Date cooler was opened: 12/9/04 By: AB

- 1: Were samples received on ice? (Must be ≤ 6 C).....  YES NO<sup>2</sup> NA
- 2: Was there a Temperature Blank?..... YES  NO
- 3: Were custody seals present and intact on cooler? (Record on COC)..... YES  NO
- 4: Are COC documents present?.....  YES NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?..... YES  NO
- 6: Is there any sub-work?..... YES  NO
- 7: Are there any short hold time tests?..... YES  NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 12/9/04 By: AB

- 1: Were all sample containers listed on the COC received and intact?.....  YES  NO<sup>2</sup> NA 12/9/04 AB
- 2: Sign the COC as received by En Chem. Completed.....  YES NO
- 3: Do sample labels match the COC?.....  YES NO<sup>2</sup>
- 4: Completed pH check on preserved samples..... YES NO  NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 5: Do samples have correct chemical preservation?.....  YES NO<sup>2</sup> NA  
*(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)*
- 6: Are dissolved parameters field filtered?..... YES NO<sup>2</sup>  NA
- 7: Are sample volumes adequate for tests requested?.....  YES NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm..... YES NO<sup>2</sup>  NA
- 9: Enter samples into logbook. Completed.....  YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....  YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed..... YES NO  NA
- 12: Start Nonconformance form.....  YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES NO  NA
- 14: Check laboratory sample number on all containers and COC. .... SF  YES NO NA

**Short Hold-time tests:**

24 Hours or less	48 Hours	7 days	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
Coliform	BOD	Ash	
Corrosivity = pH	Color	Aqueous Extractable Organics- ALL	
Dissolved Oxygen	Nitrite or Nitrate	Flashpoint	
Hexavalent Chromium	Ortho Phosphorus	Free Liquids	
HPC	Surfactants	Sulfide	
Ferrous Iron	Turbidity	TDS	
Eh	En Core Preservation	TSS	
Odor	Power stop preservation	Total Solids	
Residual Chlorine		TVS	
Sulfite		TVSS	
		Unpreserved VOC's	

Rev. 2/05/04, Attachment to 1-REC-5.  
Subject to QA Audit.

Reviewed by/date INT 12/13/04