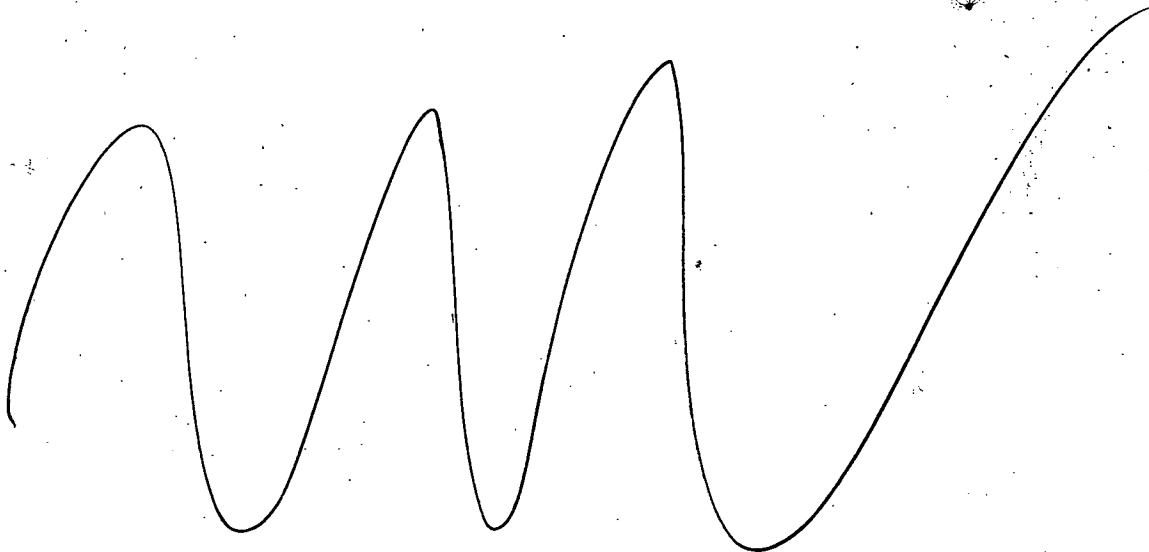


SITE CHECK REPORT
MILLSBURY ASSOCIATED INC
MARCH 13, 2015
LEAD 14872

Lesk

14872



2015



Millsop Associates, Inc.

P.O. Box 236, Crosby, MN 56441
218-763-2907 • FAX: 218-763-2908
www.millsop.com

March 23, 2005

Mr. Adam Sekely
Minnesota Pollution Control Agency
1800 College Drive
Baxter, Minnesota 55425

MAI Project No. M-05-076A

RE: Site Check Report for CJs Auto Wash in Baxter, Minnesota.

Dear Mr. Sekely:

On behalf of CJs Auto Wash, we are submitting the above referenced report for your review. You requested a site check for the property in a letter dated February 4, 2005.

The site check that you requested was due to a Minnesota Department of Transportation (MnDOT) Property Assessment in June 2002, which showed diesel range organics (DRO) at 990 parts per billion (ppb), and methyl tertiary butyl ether (MTBE) at 1.6 ppb in a groundwater sample from a boring about 150 feet east of the site. We contacted you to discuss potential boring locations for the site check work and you approved three locations on February 11, 2005. The borings were completed as proposed, two near the USTs and dispensers and one near the southeast corner of the car wash.

The only detections in the borings were DRO at 100 ppb in a groundwater sample from near the southeast corner of the car wash and MTBE at 1.7 ppb in a groundwater sample from just east of the USTs. We reported this information to you on March 21, 2005, the day that we received the analytical report. On March 22, you indicated to us that it was not necessary to report any additional analytical information to the State Duty Officer and that you would provide a "No Further Action" letter upon receiving and reviewing a report.

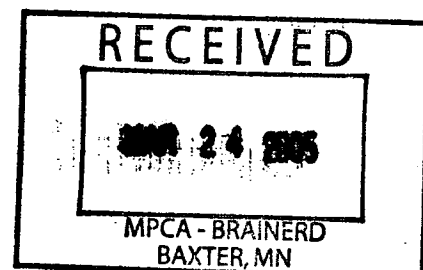
Please review the report as soon as possible and contact me with any questions. We appreciate your assistance in this matter.

Sincerely,

MILLSOP ASSOCIATES, INC.

Mark D. Millsop, P.G.
Principal Hydrogeologist

c: Mr. Brian Karl, CJs Auto Wash



**SITE CHECK REPORT
CJs AUTO WASH
BAXTER, MINNESOTA**

**MAI PROJECT NO. M-05-076A
MARCH 23, 2005**

Prepared For:

**Mr. Brian Karl
CJs Auto Wash
8343 State Highway 210
Baxter, Minnesota 56425**

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REMEDIAL INVESTIGATION REPORT CJs AUTO WASH BAXTER, MINNESOTA

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MARCH 23, 2005**

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Leaking Petroleum Storage Tanks

Minnesota Pollution Control Agency

http://www.pca.state.mn.us/programs/lust_p.html

Investigation Report Form

Fact Sheet #3.24

Complete this form to document remedial investigation (RI) activities, including Limited Site Investigations (LSIs) and full RIs. Do not revise or delete any text or questions from this report form. Include any additional information that is important for making a site cleanup decision. If only a LSI is necessary, you may skip Section 6 and Section 7 of this report form.

Refer to Minnesota Pollution Control Agency (MPCA) fact sheet 3.1 *Leaking Underground Storage Tank Program* for the overall RI objectives, and to other MPCA fact sheets for details on investigation methods. When a tank has been excavated, refer to fact sheets 3.6 *Excavation of Petroleum Contaminated Soil During Tank Removal* and 3.7 *Excavation Report Worksheet for Petroleum Release Sites* for reporting requirements. Document the occurrence of free product using fact sheet 3.3 *Free Product: Evaluation and Recover*, and fact sheet 3.4 *Free Product Recovery Report Worksheet*.

MPCA Site ID: Leak: *None for site, but
See nearby #14878*

Date: *March 23, 2005*

Volunteer: *CJs Auto Wash*

R.P. phone #: *218-829-0385*

Consultant: *Millsop Associates, Inc.*

Consultant phone #: *218-763-2907*

Facility Name: *CJs Auto Wash*

Facility Address: *8343 State Highway 210.*

City: *Baxter*

County: *Crow Wing*

Zip Code: *56425*

Site location: The required coordinate scheme for reporting site location is Universal Transverse Mercator (UTM), Extended Zone 15, 1983 North American Datum (NAD83). Refer to http://www.ot.state.mn.us/ot_files/handbook/standard/std17-1.html for Minnesota spatial data standards, or <http://mac.usgs.gov/mac/isb/pubs/factsheets/fs15799.html> for more information about UTM Coordinates.

X coordinate (Easting) ¹⁵⁰⁴ 05 ⁶⁶¹ meters

Y coordinate (Northing) ⁵¹ 33 ⁹⁴⁰ meters

What feature does the coordinate represent? (i.e. center of parcel, approximate center of source area, etc. Please describe) *Center of parcel.*

What method was used to determine the coordinate? (i.e. GPS receiver, map interpolation, address matching, etc. Please describe) *Map interpolation using MapTech software.*

If a paper map, digital map, aerial photo or digital orthophotoquad was used to find the site location, please provide the scale of the map or photo (i.e. 1:24,000, etc.)
1:24,000

Section 1: Emergency and High Priority Sites

1. Is an existing drinking water well impacted or likely to be impacted within a two-year travel time? ☐ Yes ☒ No
2. Are there existing vapor impacts? ☐ Yes ☒ No
3. Is there an existing surface water impact as indicated by 1) a product sheen on the surface water or 2) a product sheen or volatile organic compounds in the part per million (ppm) range in ground water in a well located close to the surface water. ☐ Yes ☒ No
4. Has the release occurred in the last 30 days? ☐ Yes ☒ No
5. Has free product been detected at the site? **If YES**, attach fact sheet 3.4 *Free Product Recovery Report Worksheet.* ☐ Yes ☒ No
6. Is a sand or gravel aquifer impacted which is tapped by water wells within or potentially within 500 feet from the release source **or** does impacted soil overlie a geologically sensitive area? **If YES**, explain: ☐ Yes ☒ No

If you answered YES to any of questions 1 through 6 above describe below the actions taken to date to reduce or eliminate the risk posed by the release.

Section 2: Site and Release Information

- 2.1** Attach Table 1 - Tank Information. Describe the status of the other components of the tank system(s), (i.e., piping and dispensers).

The site map shows the approximate dispenser and UST locations. The equipment appeared to be in good condition, based on our cursory observations. We also observed no indications of significant surface spills. Mr. Karl knows of no spills or releases associated with the 12 year old UST installation; an electronic monitoring device provides a twice daily read-out of gallons used and available, and performs a daily leak test.

- 2.2a** Describe the land use and pertinent geographic features within 1,000 feet of the site.

The site is used as a gasoline station and car wash. It formerly was part of a ready mix plant. The current land use in the area is commercial (Figure 1). The site is bordered by Highway 210 to the north, a storage building to the east, the former BN tie plant to the south, and an auto lube shop to the west. Other commercial businesses exist farther to the east, north and west.

The topography of the site area is relatively flat. The land does slope downward to the south of the site. There is no surface water nearby.

- 2.2b** List other potential leak sources within 500 feet of the site.

Other potential leak sources within 500 feet of the site include the auto lube shop adjacent to the west of the property, the former Burlington Northern tie plant, which is a Federal Superfund site to the south and southeast of the property, the County property adjacent to the east, which currently is used as a storage building but formerly was used as a ready mix plant, and Tanner Auto Sales to the east of the County property. The information that we obtained from MnDOT regarding the release detected in their soil boring 7-17 is included in the Appendix of this report. These maps show that two tanks and a silo formerly were located on the current County property, adjacent to the east of CJs Auto Wash, between CJs and MnDOT boring 7-17, which encountered the DRO and MTBE detections.

- 2.3** Identify and describe the source or suspected source(s) of the release.

The minor amounts of MTBE and DRO detected at the site in our groundwater samples may be related to small surface spills. However, the concentrations detected are only slightly above the laboratory method detection limits, and it also is possible that these detections are false positives.

The source of the relatively higher DRO detection in the groundwater sample collected from MnDOT boring 7-17 possibly may be due to a release associated with the tank that formerly was near the south property line of the current County property. It also is possible that the former BN tie plant or Tanner Auto Sales could be a source of these impacts. It does not appear that the DRO impacts detected at the MnDOT boring location are related to a release at CJs Auto Wash.

2.4 What was the volume of the release? (if known): *Not Applicable*

2.5 When did the release occur? (if known): *Not Applicable*

Section 3: Excavated Soil Information

3.1 Include the Fact Sheet 3.7 *Excavation Report Worksheet* in Appendix A

3.2 Was soil excavated for off-site treatment? ☐ Yes ☒ No

Date excavated:

Volume removed: cubic yards

3.3 Indicate soil treatment type:

- ☐ land treatment
- ☐ thermal treatment
- ☐ composting/biopiling
- ☐ other ()

Name and location of treatment facility:

Section 4: Extent and Magnitude of Soil Contamination

- 4.1 Were soil borings conducted in or immediately adjacent to all likely sources including:
- | | ☒ YES | ☐ NO | |
|----------------------------------|---|-----------------------------|---|
| | YES | NO | NOT PRESENT |
| dispensers, | ☒ yes | ☐ no | ☐ not present |
| underground storage tank basins, | ☒ yes | ☐ no | ☐ not present |
| above ground storage tank areas, | ☐ yes | ☐ no | ☒ not present |
| piping, | ☒ yes | ☐ no | ☐ not present |
| remote fill pipes, | ☐ yes | ☐ no | ☒ not present |
| and known spill areas | ☐ yes | ☐ no | ☒ not present |
- 4.2 To adequately define the vertical extent of contamination, soil borings should be completed at least five feet below the water table or ten feet below the deepest measurable (field screening and visual observation) contamination, whichever is deeper. Were all soil borings completed to the required depth?
- ☐ YES ☒ NO
- 4.3 To adequately evaluate site stratigraphy complete at least one boring to 20 feet below the water table, or to 20 feet below the deepest site contamination, whichever is deeper. If a confining layer is present, drill the boring in an uncontaminated area. Was this done?
- ☐ YES ☒ NO

If you answered *NO* to any of the three previous questions, explain why the borings were not conducted in the required locations or to the required depths (see fact sheet #3.19, *Soil and Ground Water Investigations Performed During Remedial Investigations* regarding exceptions and MPCA approval for depth of drilling):

Regarding 4.2, borings B-2 and B-3 only were completed to 4 feet below the water table versus 5 feet, because no release was encountered and 4 feet was adequate to obtain groundwater samples. Regarding 4.3, a stratigraphy boring was not necessary for this site check work and would have been completed if impacts had been detected.

- 4.4 Indicate the drilling method:
- ☒ hollow-stem auger
 - ☐ sonic drilling
 - ☐ push probes
 - ☐ other

Note: MPCA staff hydrologist approval is required before use of flight augers

- 4.5 Discuss soil borings drilled and provide rationale for their locations. Attach boring logs in Appendix D.

The locations of the three soil borings were approved by MPCA staff prior to drilling at the site. These locations were selected to assess the soil and groundwater in the likely downgradient direction from the dispensers and USTs, and the oil/water separators in the car wash. Further, all three of these boring locations were between the potential source areas at CJs Auto Wash and the MnDOT boring 7-17 to the east-southeast.

- 4.6 Attach Table 2 - Results of Soil Headspace Screening, In Appendix C, discuss soil headspace screening method and describe any deviation from recommended and/or required methods and procedures.
- 4.7 Attach Table 3 - Analytical Results of Soil Samples. Provide analytical results in Appendix B. In Appendix C, discuss soil sampling and analytical methods used and describe any deviation from recommended and/or required methods and procedures

- 4.8 Describe the vertical and horizontal extent and magnitude of soil contamination. Provide a plan-view map and two cross-sections that illustrate both soil head space and laboratory analytical results. See Section 13.

There were no soil impacts detected.

- 4.9 Attach Table 4 - Other Contaminants Detected in Soils (Petroleum or Non-petroleum Derived). Discuss the possible sources of these compounds.

No non-petroleum VOC analyses were conducted on the soil samples, because groundwater samples were collected and analyzed for VOCs.

- 4.10 Is contaminated soil in contact with ground water? ☐ Yes ☒ No

If YES or if ground water contamination appears likely, then complete Section 5.

If NO (contaminated soil is not in contact with ground water), what is _____ feet
the distance separating the deepest contamination from the surface of
the water table? Was this distance measured during site activities,
referenced from geologic information, or estimated based on
professional opinion during a site visit?

4.11 Describe observations of any evidence of a fluctuating water table and a seasonal high water table (e.g., mottling). Also, from other sources of information describe the range of natural water table fluctuations in the area.

We observed evidence of a perched groundwater table at approximately 19 to 20 feet below grade. This evidence was saturated sand directly above a silty clay. The sand encountered below the silty clay was dry and the apparent static groundwater table was encountered at approximately 30 feet below grade. There was no evidence of a fluctuating static groundwater table.

4.12 In your judgment, is there a sufficient distance separating the petroleum contaminated soil (or an impacted non- aquifer) from the underlying aquifer to prevent petroleum contamination of the aquifer? Please explain in detail. In your explanation, consider the data and information of this section as well as the nature of the petroleum release (i.e., volume, when it occurred, petroleum product). ☒ Yes ☐ No

If YES, a ground water contamination assessment is not necessary as part of the LSI.

If NO, a ground water contamination assessment is necessary. Complete Section 5.

Section 5: Aquifer Characteristics/Ground Water Contamination Assessment

Complete Section 5 if groundwater has been contaminated or may become contaminated. Aquifer determination is made during the LSI. It is based upon the stratigraphy and a hydraulic conductivity measurement calculated from grain size distribution analysis. The site stratigraphy gives the context within which the hydraulic conductivity measurement can be interpreted. Please refer to Fact Sheet 3.19, *Soil and Ground Water Investigations Performed During Remedial Investigations* for methods and requirements.

5.1 Provide an average hydraulic conductivity value (K) measured: *Not Applicable*

K = ft/day

Indicate the method of measurement (i.e., Hazen, Masch and Denny, Kozeny-Carmen, etc.):

Indicate the locations and depths of soil samples submitted for grain size analyses. Provide the results of grain size analyses and other information used for the determination of K-values in Appendix F.

5.2 Calculate a range for aquifer transmissivity (T) using the equation $T = Kb$, where b is the thickness of the aquifer: *Not Applicable*

$T_{\text{High}} =$ ft²/day
 $T_{\text{Low}} =$ ft²/day

Determine the aquifer thickness (b) from geologic logs of soil borings, water well logs, and available published information. Attach water well logs in Appendix D. If the transmissivity of a contaminated hydrogeologic unit is greater than 50 ft²/day, it is considered an aquifer (for the purpose of the LUST program), and monitoring wells will be necessary.

5.3 Discuss in detail the site geology and stratigraphy, including a discussion of local and regional hydrogeology, using soil boring data and cross sections, geologic logs of near-by water wells, and available published information.

The site geology is similar to that we have encountered during other studies in this area. The sandy surficial geology typical of this area is shown on the attached boring logs. This is confirmed in the regional hydrologic investigations atlas published by the USGS and by the well logs we previously have reviewed for nearby wells. The soils encountered in the borings

primarily consists of a fine to medium sand with the exception of a 3 to 5 foot thick silty clay layer encountered at approximately 19 to 20 feet below grade. A perched groundwater table was encountered in the sand directly above the silty clay and the sand was dry directly below the silty clay. The static groundwater table was encountered at approximately 30 feet below grade.

- 5.4** Attach Table 5- Water Level Measurements and Depths of Water Samples Collected from Borings. Indicate the method used to measure the water levels in borings, and the depth water samples were collected from borings. Allow water levels in borings to equilibrate to static conditions, and then adjust the effective screened intervals in borings to intercept the static water table prior to water sample collection. Discuss groundwater flow direction.

The static groundwater table was encountered in each boring at about 30 feet below grade. Based on the approximate relative ground surface elevations at the probe locations, the groundwater table was encountered at approximately the same elevation across the site; flat gradients are common in sandy soils, especially in the absence of significant surface topography and nearby hydrologic features, such as in the vicinity of the site. Low gradients also have been measured at other nearby sites, such as at Dondelinger, Inc. to the west of the site.

Due to the location of the Mississippi River to the east, we would anticipate that the shallow groundwater flow direction at the site might range from east to southeast. The monitoring well data for the former BN tie plant site indicate that the shallow groundwater flow is to the southeast.

- 5.5** Attach Table 6 - Analytical Results of Water Samples Collected from Borings. Summarize the analytical results of groundwater samples collected as part of an LSI. Discuss the extent and magnitude of groundwater contamination. Also provide a discussion on QA/QC, including information on the samples collected and laboratory analyses performed.

The only detections in the three groundwater samples included 100 ppb of DRO in the sample from boring B-3, near the southeast corner of the car wash, in the likely downgradient direction from the oil/water separators, and 1.7 ppb of MTBE, in the groundwater sample from boring B-2, directly east and downgradient from the dispenser islands and the USTs. There were no other detections of DRO, VOCs or GRO in the samples. In our opinion, the slight detections in the two borings do not indicate a significant release.

The groundwater samples were analyzed at a fixed laboratory for VOCs, GRO and DRO. A trip blank accompanied the samples submitted to the laboratory and there were no detections of VOCs.

- 5.6 Attach Table 7 - Other Contaminants Detected in Water Samples Collected from Borings (Petroleum or Non-petroleum Derived). Discuss the possible sources of these contaminants and provide a discussion of QA/QC information.

There were no other contaminants detected in water samples.

- 5.7 Laboratory certification number: 055-999-334 (*EnChem, Inc.*)

Additional Ground Water Investigation

Complete **Section 6** only if: 1) *an aquifer has been impacted at or above Minnesota Department of Health HRLs*, 2) *an aquifer has been impacted below the HRLs, but the levels are likely to reach the HRLs*, or 3) *there is an insufficient distance separating the petroleum contaminated soil (or an impacted non- aquifer) from the underlying aquifer*. Complete **Section 7** only if remediation is anticipated. Regardless of whether you are submitting a *LSI* or a *full RI*, all sections following Section 7 must be completed.

Section 6. Extent and Magnitude of Ground Water Contamination

- 6.1 Discuss drilling and installation of wells, including the rationale for their locations. Attach boring logs in Appendix D. *Not Applicable*
- 6.2 Attach Table 8 - Monitoring Well Completion Information.
- 6.3 Attach Table 9 - Summary of Water Levels Measured in Wells.
- 6.4 Attach Table 10 - Analytical Results of Water Samples Collected from Wells. Indicate here whether samples were purged or unpurged (see fact sheet 3.23). If purged, indicate purging method.
- 6.5 Attach Table 11 - Other Contaminants Detected in Water Samples Collected from Wells (Petroleum or Non-Petroleum Derived). Indicate here whether samples were purged or unpurged (see fact sheet 3.23). If purged, indicate purging method.
- 6.6 Describe the extent and magnitude of the ground water contamination. Discuss the presence of non-petroleum compounds, if detected, and identify possible sources of these compounds. Also provide a discussion on QA/QC, including information on the samples collected and laboratory analyses performed.
- 6.7 Is there a clean or nearly clean (below HRLs) down-gradient monitoring well ☐ Yes ☐ No located along the longitudinal axis of the contaminant plume?

(approximately 20 degrees plus or minus the axis)

- 6.8 Is there a worst case well completed through the source area(s) of the release? ☐ Yes ☐ No

If you have answered *NO* to any of the above two questions, please explain why a well was not completed in the required location.

- 6.9 Provide an estimate of the longitudinal length of the dissolved contaminant plume: _____ feet

- 6.10 Calculate groundwater flow velocity (based on Darcy's Law) using the average K-value, average horizontal hydraulic gradient, and effective porosity. Provide documentation in Appendix F.

Hydraulic Conductivity (K) =

Porosity (n) = method/reference

Average horizontal gradient (dh/dl) =

Calculated GW velocity (v) = _____ cm/ _____ ft/day

- 6.11 Using the calculated groundwater flow velocity (above), is there a receptor within a five-year travel time? ☐ Yes ☐ No

If *YES*, provide the unique well number and identify the location of the receptor(s).

- 6.12 Were any deep monitoring wells completed at the site? ☐ Yes ☐ No

If *YES*, list them and indicate their depths:

Contact the MPCA project hydrologist before installing a deep monitoring well. A deep monitoring well may be necessary if: 1) Contamination exists more than 10 feet below the water table or 2) the impacted aquifer is a drinking water aquifer or is hydraulically connected to the aquifer(s) presently utilized by a water supply well located within 500 feet of the release source.

If contamination is present at depth in the aquifer or in deeper aquifers, additional deep wells may be required. Provide the following information if deep wells are installed:

Vertical Gradient (dv/dl)

Inferred GW Flow Direction

Provide the following information for the deep aquifer unit if it appears to be hydrogeologically distinct from the upper unit.

Porosity (n):

Hydraulic Conductivity (K)

Submit this RI report after completing a minimum of *two quarterly sampling events*. Groundwater monitoring should continue until MPCA response is received.

Section 7: Evaluation of Natural Attenuation

Refer to the fact sheet #3.21 *Assessment of Natural Attenuation at Petroleum Release Sites*.

Note: Evaluation of natural attenuation is not required unless requested by MPCA staff.

7.1 Attach Table 12 - Natural Attenuation Parameters. Discuss the results. Specifically, compare the concentrations of the inorganic parameters inside and outside the plume.

7.2 In your judgment, is natural biodegradation occurring at this site? Please ☐ Yes ☐ No
Explain.

If active remediation is anticipated, discuss reasons why natural attenuation (including biodegradation) can not adequately remediate the contaminants to acceptable risk levels.

Section 8: Well Receptor Information/Assessment

Include in Appendix E, copies of the water supply well logs obtained from MGS, MDH, drillers, and where applicable, from County well management authorities.

8.1 Attach Table 13 - Properties Located Within 500 Feet of the Release Source. Provide a map identifying the features listed in Table 13.

8.2 Were all property owners within 500 feet of the release source successfully contacted to determine if water wells are present? ☐ Yes ☒ No
If NO, please explain.

Not required by the MPCA for this site.

8.3 Attach Table 14 - Water Supply Wells Located within 500 Feet of the Release Source and Municipal or Industrial Wells Within ½ Mile.

8.4 Discuss the results of the ground water receptor survey and any analytical results from sampling conducted at nearby water wells. Comment on the risks to water supply wells identified within 500 feet from the release source as well as the risk posed by or to any municipal or industrial wells found within ½ mile. Specifically indicate whether water supply wells identified utilize the impacted aquifer. (Note: an impacted aquifer separated from another aquifer by a clay lens may not be considered a separate aquifer).

Not required by the MPCA for this site.

8.5 Is municipal water available in the area? ☒ Yes ☐ No

8.6 Are there any plans for ground water development in the impacted aquifer within 1/2 mile of the site, or one mile down-gradient of the site if the aquifer is fractured? Please give the name, title and telephone number of the person that was contacted for this information (below). ☐ Yes ☒ No

Mr. Trevor Wolter, Baxter Public Utilities Telephone 218-855-5107

Section 9: Surface Water Risk Assessment

9.1 Are there any surface waters or wetlands located within ¼ mile of the site? ☐ Yes ☒ No

If YES, list them:

9.2 If surface water is present down-gradient of the site, is there a clean down-gradient monitoring well (temporary or permanent) located between the site and the surface water? ☐ YES *
☐ NO
☐ N/A

9.3 If you answered NO to question 9.2, we assume that contamination discharges to surface water. Therefore, complete the following information:

Name of receiving water:

Receiving water classification

ORVW?

☐ Yes ☐ No

Plume width, (W):

feet

Plume thickness, (H):

feet

Hydraulic conductivity, (K):

gal/day/ft²

Horizontal gradient, (dh/dl):

(unitless)

Discharge, (Q) = $H * W * K * (dh/dl) / 1440$

gal/min

Applicable chronic standard (7050 or 7052)

Applicable max. standard (7050 or 7052)

Applicable FAV (7050 or 7052)

Contaminant concentration in ground water

9.4 If you answered YES to question 9.2, identify the clean down-gradient boring or monitoring well, the distance to the surface water feature, and discuss the contamination risk potential.

Section 10: Vapor Risk Assessment/Survey

10.1 Is there a history of vapor impacts in the vicinity of the site ?

☐ Yes ☒ No

If **YES**, describe:

10.2 Is there any indication that free product or contaminated ground water may be traveling off-site within the utility corridors? ☐ Yes ☒ No

If **YES**, utility backfill investigation is required (refer to Fact Sheet 3.19). Discuss the investigation rationale and results.

10.3 Discuss the potential for vapor migration/accumulation near the site. Your discussion should consider: Soil types, product type, presence and distribution of free product or high concentrations of dissolved product. Also, using cross-sections to illustrate the relationship, compare the depth of contamination with the location of underground utility lines, location and depth of storm and sanitary sewers, and location of nearby basements and sumps.

Not required by the MPCA for this site.

10.4 Conduct a vapor survey if the vapor risk assessment indicated a risk of vapor impacts to buildings or utilities. Ask occupants of nearby buildings if they have smelled petroleum odors. See fact sheet 3.20 *Potential Receptor Surveys and Risk Evaluation Procedures at Petroleum Release Sites*. Identify all vapor monitoring locations on an attached site map by labeling each monitoring location with a number. Tabulate the list of vapor monitoring locations in Table 15. Vapor monitoring methods, including instruments used, must be discussed in Appendix C. Provide a detailed description of each vapor monitoring location and an interpretation of the vapor monitoring results below.

Not required by the MPCA for this site.

10.5 Attach Table 15 - Results of Vapor Monitoring.

Section 11: Discussion

11.1 Discuss the risks associated with the remaining soil contamination:

This is not applicable, because there was no soil contamination encountered.

11.2 Discuss the risks associated with the impacted ground water:

Based on the fact that the surrounding area is connected to the municipal water supply and there are no nearby surface waters that could be impacted, it does not appear that there are any risks associated with the impacted groundwater. Further, the groundwater from the site likely flows underneath the former BN tie plant site, which is a known Superfund site with contaminated groundwater.

11.3 Discuss other concerns not mentioned above:

No other concerns have been identified.

Section 12: Conclusions and Recommendations

12.1 Recommendation for site:

- ☒ site closure
- ☐ additional vapor monitoring
- ☐ additional ground water monitoring
- ☐ active remediation

12.2 Base the recommendation above on fact sheet #3.1 *Leaking Underground Storage Tank Program*. Describe below how you applied the policy to support your recommendation. If closure is recommended, please summarize significant site investigative events and describe how site specific risk issues have been adequately addressed or minimized to acceptable low risk levels.

The results of this study indicate that there have been no significant releases related to the site's USTs and dispenser installation, or the oil/water separator tanks. Also, there do not appear to be any nearby groundwater receptors. Therefore, based on the lack of significant soil or groundwater detections and the apparent lack of risk to receptors in the region, we recommend no further action.

12.3 If additional monitoring is recommended, indicate the proposed monitoring schedule and frequency. Conduct quarterly monitoring until the MPCA responds to this report.

12.4 If active remediation is proposed, then recommend a conceptual approach by listing the remedial technologies or combination of technologies that are likely feasible. MPCA staff will review this RI report at a higher than normal priority to determine if active remediation is required. We will respond with either a request for proposal for additional monitoring or a Corrective Action Design report.

Section 13: Figures

Attach the following figures in order of discussion in the text:

- ☒ Site location map using a U.S. Geological Survey 7.5 minute quadrangle map.
- ☒ One or more site map showing:
 - Structures
 - Locations and depths of on-site buried utilities
 - All past and present petroleum storage tanks, piping, and dispensers
 - Extent of soil excavation
 - Boring and well locations (including any drinking water wells on site)
 - Horizontal extent of soil contamination
 - Horizontal extent of ground water contamination
 - Location of end points for all geologic cross sections.

Distinguish sequential elements of investigations by dates, symbols, etc. in the key.

- ☐ Ground water gradient contour maps (for sites with monitoring wells) for each gauging event.
- ☐ Well receptor survey map showing 1/2 mile radius, 500 foot radius, water supply wells, other potential sources of contamination, using a U.S. Geological Survey 7.5 minute quadrangle.
- ☐ Vapor survey map showing utilities and buildings with basements and monitoring locations (if a survey was required).
- ☐ Provide at least two (2) geologic cross sections, including utilities.

Section 14: Tables

Tank # 12239

**Table 1
Tank Information**

Tank #	UST or AST	Capacity	Contents	Year Installed	Status*	Condition
1	UST	6,000	Gasoline	~1993	Active	Good
2	UST	10,000	Gasoline	~1993	Active	Good
3	UST	10,000	Gasoline	~1993	Active	Good

Notes:

**Table 2
Results of Soil Headspace Screening**

Depth (ft)	Soil Boring							
	B-1	B-2	B-3					
4-6	-	1.0	0.3					
9-11	0.8	0.5	0.1					
14-16	-	0.3	0.2					
19-21	1.9	0.1	0.1					
24-26	1.7	0.1	0.1					
29-31	0.8	0.1	0.1					
34-36	0.3	-	-					

Table 3
Analytical Results of Soil Samples

Boring, Depth(ft)	Date Sampled	Benzene	Toluene	Ethylbenzene	Xylenes	GRO	DRO	Lab Type
B-1 (20)	03-08-05	<0.031	<0.031	<0.031	<0.031	<3.1	<4.3	Fixed
B-2 (20)	03-08-05	<0.035	<0.035	<0.035	<0.035	<3.5	<4.6	Fixed
B-3 (20)	03-08-05	<0.030	<0.030	<0.030	<0.030	<3.0	<3.6	Fixed

Report results in mg/kg. Use less than symbols to show detection limit. Indicate mobile or fixed based in the lab type column.

Notes: There were no detections in the methanol field blank.

Table 4
Other Contaminants Detected in Soils (Petroleum or Non-petroleum Derived)

Boring, Depth (ft)	Date Sampled						Lab Type

Report results in mg/kg. Indicate other contaminants (either petroleum or non-petroleum derived) detected in soil collected from borings.

Notes:

Table 5
Water Level Measurements and Depths of Water Samples Collected from Borings

	Soil Boring									
	B-1	B-2	B-3							
Static Water level depth (ft)	30	30	30							
Sampled Depth (ft)	29-34	29-34	29-34							

Describe in Appendix C, the methods and procedures used to measure water levels in borings.

Notes:

Analytical Results of Water Samples Collected from Borings

Boring Number	Date Sampled	Sampled Depth	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	GRO	DRO	Lab Type
B-1	03-08-05	29-34	<1.0	<1.0	<1.0	<2.0	<1.0	<50	<94	Fixed
B-2	03-08-05	29-34	<1.0	<1.0	<1.0	<2.0	1.7	<50	<94	Fixed
B-3	03-08-05	29-34	<1.0	<1.0	<1.0	<2.0	<1.0	<50	100	Fixed
Duplicate	03-08-05		<1.0	<1.0	<1.0	<2.0	1.4	<50	<94	Fixed
Trip Blank										
Field Blank										
Lab Blank										
HRL			10	1000	700	10000				

Report results in ug/L. Use less than symbols to show detection limit. Indicate mobile or fixed based in the lab type column.

Notes

**Other Contaminants Detected in Water Samples
Collected from Borings (Petroleum or Non-petroleum Derived)**

[illegible]

Report results in ug/L. Indicate other contaminants (either petroleum or non-petroleum derived) detected in water samples collected from the borings, temporary wells or push probes.

Notes:

Table 8
Monitoring Well Completion Information

Well Number	Unique Well Number	Date Installed	Surface Elevation	Top of Riser Elevation	Bottom of Well (Elevation)	Screen Interval (Elev. - Elev.)

Notes: (location and elevation of benchmark)

Table 9
Water Level Measurements in Wells

Well Number	Date Sampled	Depth of Water from Top of Riser	Product Thickness	Depth of Water Below Grade	Relative Groundwater Elevation	Water Level Above Screen (Y/N)

Describe in Appendix C, the methods and procedures used to measure water levels.

Notes:

Table 10
Analytical Results of Water Samples Collected from Wells

Well #	Date Sampled	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	GRO	DRO	Lab Type
Field Blank									
Lab Blank HRL (ug/L)		10	1000	700	10000				

Report results in ug/L. Use less than symbols to show detection limit. Indicate mobile or fixed based in the lab type column.

Table 11
Other Contaminants Detected in Water Samples
Collected from Wells (Petroleum or Non-petroleum Derived)

Well Number	Date Sampled								
Field Blank									
Trip Blank									
Lab Blank									
HRL (ug/L)									

Report results in ug/L. Indicate other contaminants (either petroleum or non-petroleum derived) detected in water samples collected from the borings, temporary wells or push probes.

Notes:

Table 12
Natural Attenuation Parameters

Monitoring Well	Sample Date	Temp. °C	pH	Dissolved Oxygen (mg/L)	Nitrate (mg/L)	(Fe II) (mg/L)	(H ₂ S, HS ⁻) (mg/L)

In Appendix C, describe the methods and procedures used.

Notes:

Table 13[illegible]

Table 14
Water Supply Wells Located Within 500 Feet of the
Release Source and Municipal or Industrial Wells Within ½ Mile

Unique Well #	Ground Elevation	Total Depth (ft)	Base of Casing (ft)	Static Elevation	Aquifer	Use	Owner	Distance & Direction from source

Notes:

Table 15
Results of Vapor Monitoring

Location # and description	Date	PID reading (ppm)	Percent of the LEL

Notes: Location numbers must match locations on the site map. Provide a brief description of the monitoring point (e.g., sump, basement corner, sanitary sewer manhole, storm sewer basin, etc.).

Section 15: Appendices

Attach the following appendices.

- ☐ *Appendix A* Excavation Report Worksheet for Petroleum Release Sites.
- ☒ *Appendix B* Laboratory Analytical Reports for Soil and Ground Water. Include laboratory QA/QC data and laboratory certification number.
- ☒ *Appendix C* Methodologies and Procedures, Including Field Screening of Soil, Other Field Analyses, Soil Boring, Soil Sampling, Well Installation, and Water Sampling.
- ☒ *Appendix D* Geologic Logs of Soil Borings, Including Construction Diagrams of Temporary and Permanent Wells, and Copies of the Minnesota Department of Health Well Record.
- ☐ *Appendix E* Copies of Water Supply Well Logs With Legible Unique Numbers.
- ☐ *Appendix F* Grain Size Analysis, Hydraulic Conductivity Measurements, and Other Calculations.

Section 16: Consultant Information

By signing this document, I/we acknowledge that we are submitting this document on behalf of and as agents of the responsible person or volunteer for this leak site. I/we acknowledge that if information in this document is inaccurate or incomplete, it will delay the completion of remediation and may harm the environment and may result in reduction of reimbursement awards. In addition, I/we acknowledge on behalf of the responsible person or volunteer for this leak site that if this document is determined to contain a false material statement, representation, or certification, or if it omits material information, the responsible person or volunteer may be found to be in violation of Minn. Stat. § 115.075 (1994) or Minn. R. 7000.0300 (Duty of Candor), and that the responsible person or volunteer may be liable for civil penalties.

MPCA staff are instructed to reject unsigned investigation reports or if the report form has been altered.

Name and Title:

Mark D. Millsop
Principal Hydrogeologist

Signature:

Mark D. Millsop

Date signed:

3/23/05

Company and mailing address:

Millsop Associates, Inc.

P.O. Box 236

Crosby, Minnesota

56441

Phone: 218-763-2907

Fax: 218-763-2908

Upon request, this document can be made available in other formats, including Braille, large print and audio tape. TTY users call 651/282-5332 or Greater Minnesota 1-800/657-3864.

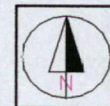
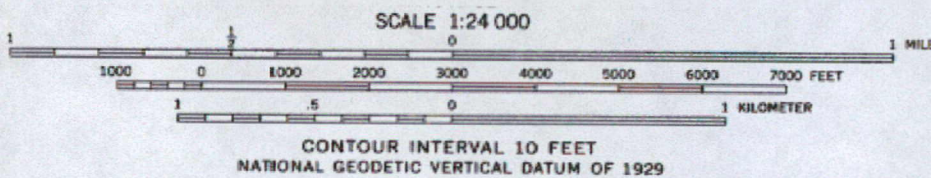
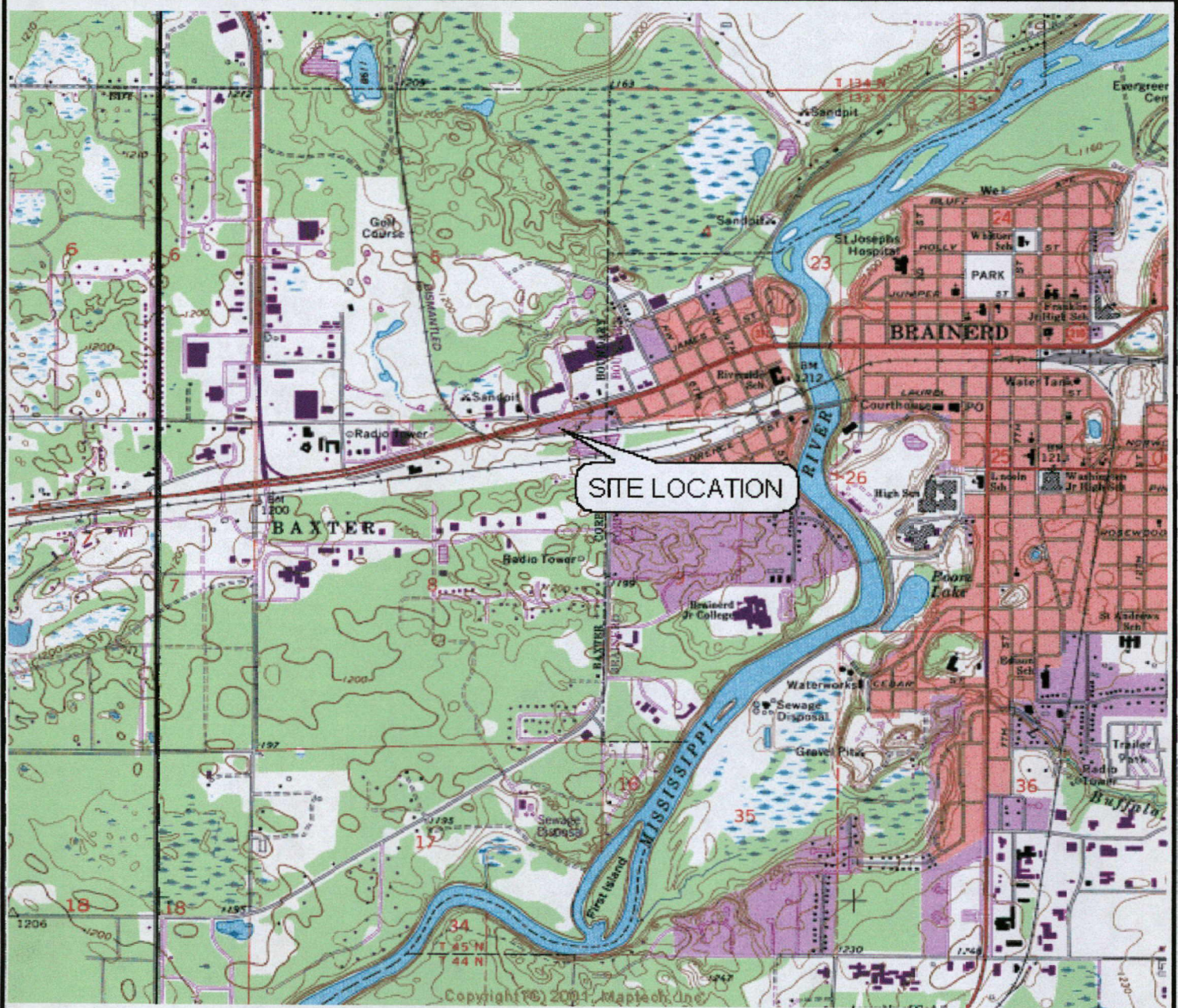
Printed on recycled paper containing at least 10 percent fibers from paper recycled by consumers.

FIGURES

Figure 1: Regional Location Map

Figure 2: Approximate Site Diagram

BRAINERD, MINNESOTA
PUBLISHED 1973/PHOTOREVISED 1994
7.5 MINUTE SERIES (TOPOGRAPHIC)



QUADRANGLE LOCATION

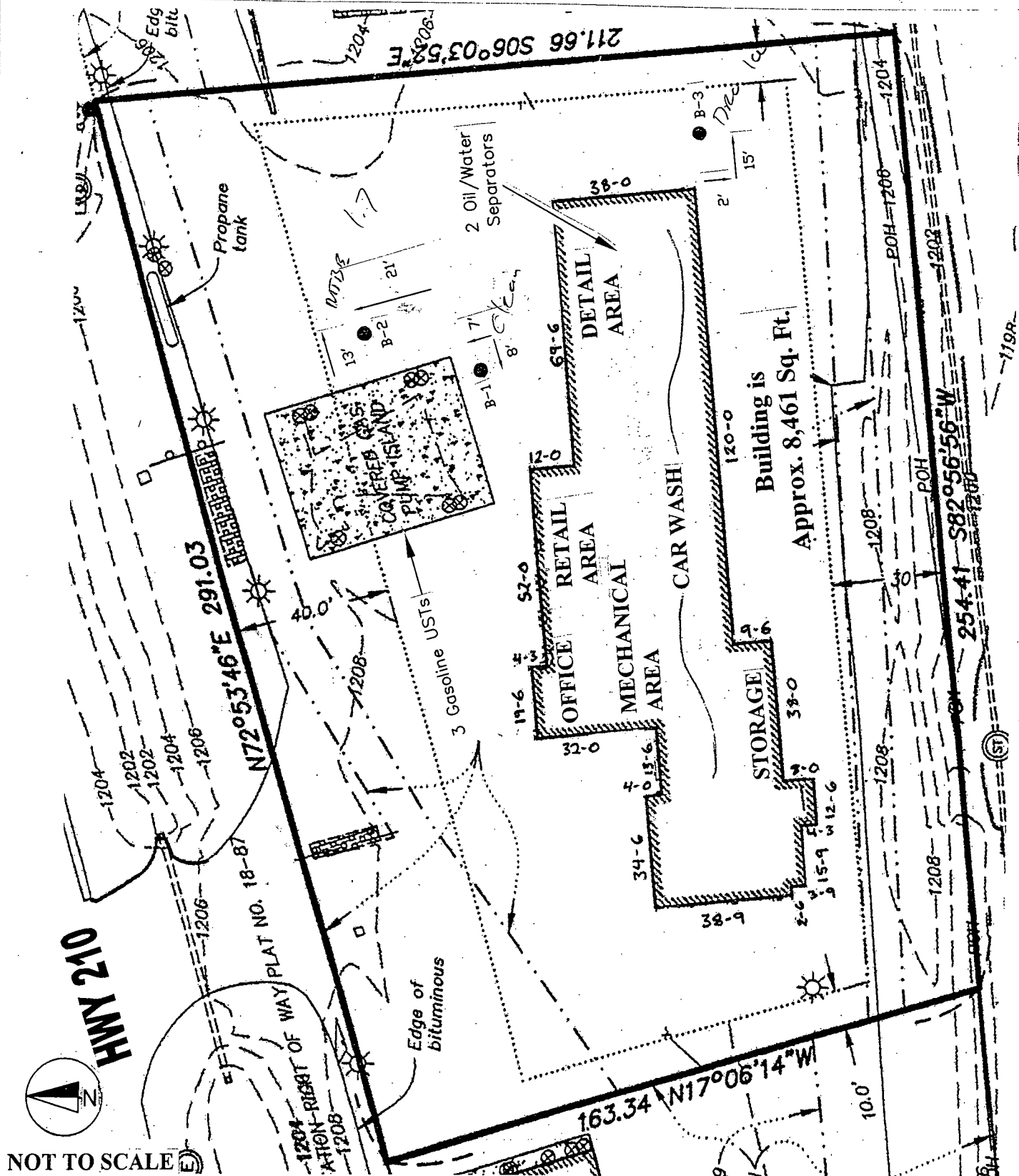
MILLSOP ASSOCIATES, INC.

P.O. BOX 236
 35797 DOLNEY LAKE ROAD
 CROSBY, MINNESOTA 56441
 218-763-2907

FIGURE 1: REGIONAL LOCATION DIAGRAM
C Js AUTO WASH
BAXTER, MINNESOTA

MARCH 2005

MAI PROJECT NO. M-076A



Note: Drawing reproduced from Close-Converse sales brochure.

MILLSOP ASSOCIATES, INC.

P.O. BOX 236
35797 DOLNEY LAKE ROAD
CROSBY, MINNESOTA 56441
218-763-2907

FIGURE 2: BORING LOCATIONS C Js AUTO WASH BAXTER, MINNESOTA

MARCH 2005

MAI PROJECT NO. M-076A

APPENDICES

Excerpts from MnDOT Report

Boring Logs

Remedial Investigation Procedures

EnChem Laboratory Reports



Office of Environmental Services
395 John Ireland Boulevard
Mail Stop 620
St. Paul, MN 55155-1899
Phone: 651-284-3772
Fax: 651-284-3754

Fax

To: Mark Millsop

From: Andrew Nichols

Fax: 218-763-2900

Pages: 5 (including cover page)

Phone: 218-763-2907

Date: 1/28/2005

Re: Charles St. Ext. data

CC:

☐ Urgent

☒ For Review

☐ Please Comment

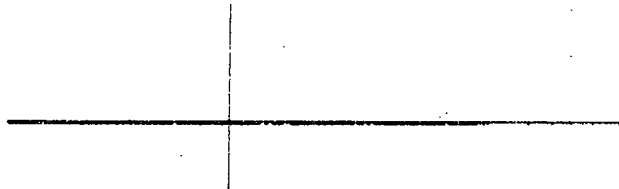
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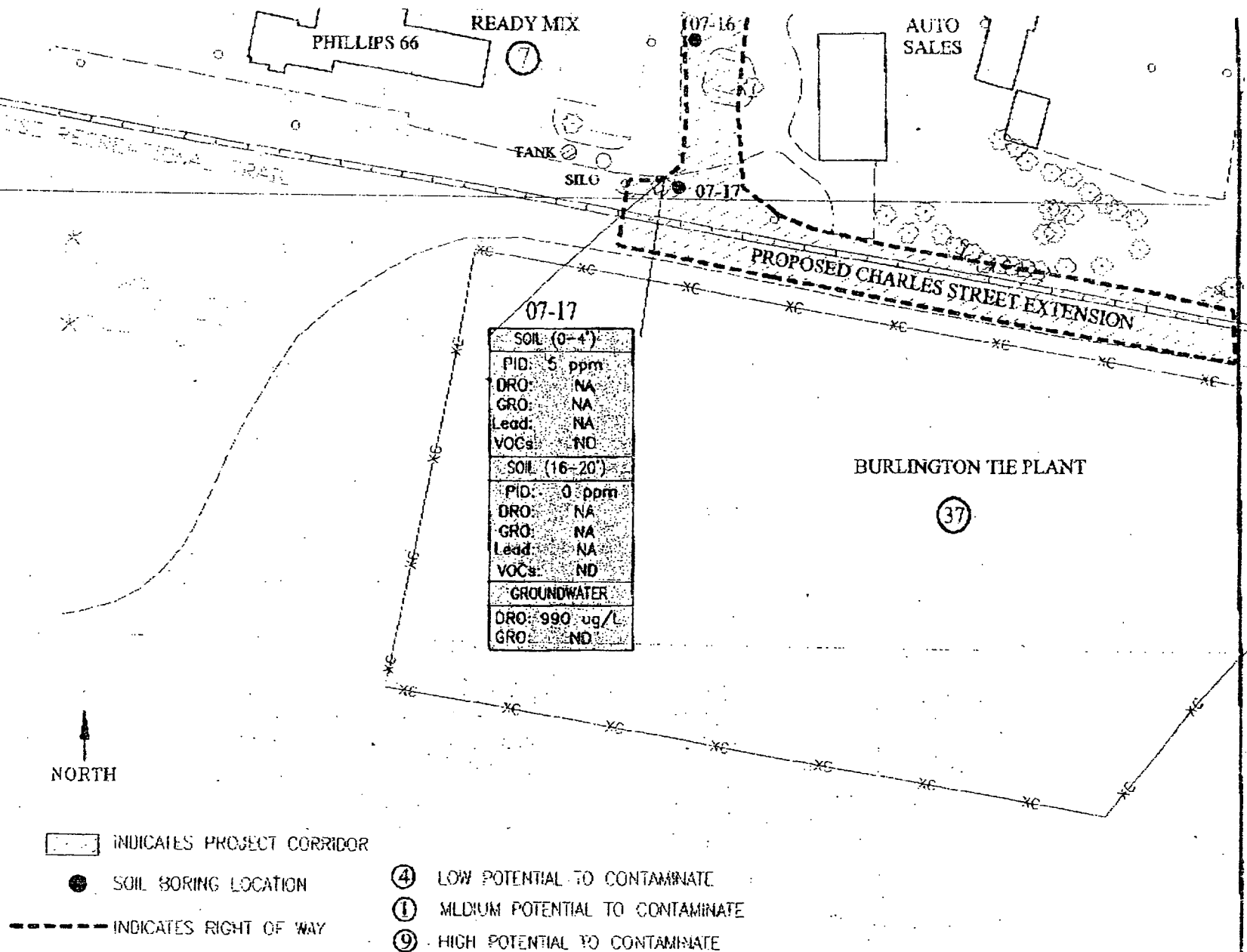
☐ Please Recycle

Mark,

Attached, please find the data that you requested.

Regards,





SERVICE
ENGINEERING
GROUP

FILE NAME 02006 10.dwg
DATE 6/25/02
DRAWN BY LS
REVIEWED BY TR

FIGURE TITLE
FIGURE 3.4
SOIL BORING LOCATION/CHEMISTRY SUMMARY MAP
Mn/DOT T.H. 210 CORRIDOR (S.P. 18050 -63)
BAXTER/BRAINERD, MINNESOTA

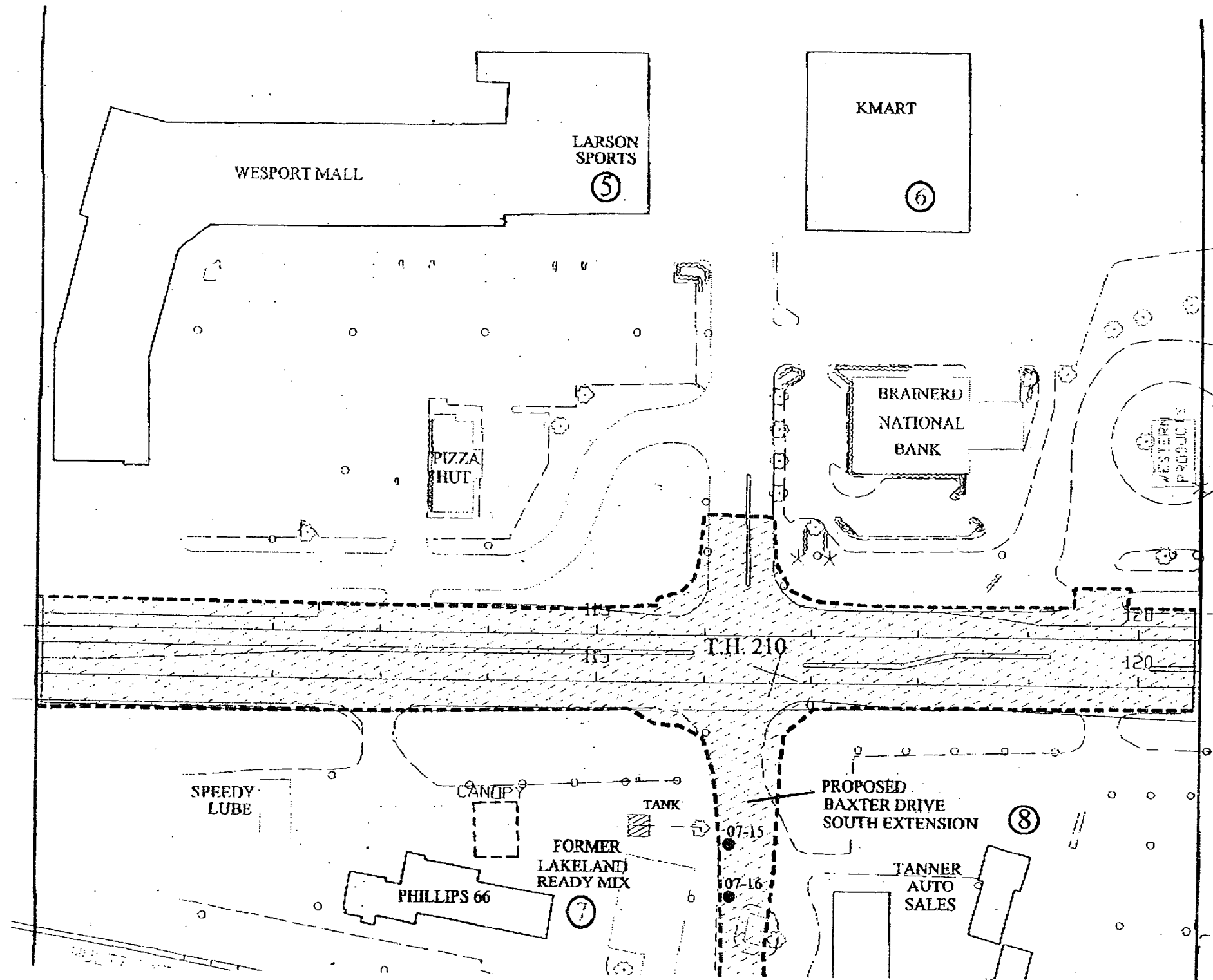


Table 2 Soil Headspace and Chemical Analyses Results Summary T.H. 210 Corridor Baxter/Brainerd, Minnesota S.P. #1805-63		
Sample Location (depth in feet)	PID Headspace (in ppm)	Detected Analyte Summary
02-21-07 (12' - 16')	0	DRO NA - mg/kg GRO NA - mg/kg Lead NA - mg/kg Naphthalene 5.5 - mg/kg
02-21-07 (16' - 20')	0	DRO 55 - mg/kg GRO <5.0 - mg/kg Lead 2.4 - mg/kg Naphthalene 1.6 - mg/kg
02-07-17 (0' - 4')	5	DRO NA - mg/kg GRO NA - mg/kg Lead NA - mg/kg VOCs ND - mg/kg
02-07-17 (16' - 20')	0	DRO NA - mg/kg GRO NA - mg/kg Lead NA - mg/kg VOCs ND - mg/kg

Notes:

PID = Photoionization Detector
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 MDL = Method Detection Limit
 VOCs = Volatile Organic Compounds
 ND = Not detected above the MDL

Regulatory Limits:

DRO/GRO 1 - 50 mg/kg if water table is less than 25 ft, additional investigation required. MPCA Lust Fact Sheet 3.6, Table 6.4
 Lead 400 mg/kg, Tier 1 SRV
 Naphthalene 10 mg/kg Tier 1 SRV

Table 3 Water Sample Chemical Analyses Results Summary T.H. 210 Corridor Baxter/Brainerd, Minnesota S.P. #1805-63			
Sample Location	PID Headspace Readings (in ppm)	Detected Analyte Summary	
02-21-07	0	DRO	<100 - µg/L
		GRO	<100 - µg/L
		Lead	NA - µg/L
		Naphthalene	3.1 - µg/L
		sec-Butyl benzene	1.1 - µg/L
		MTBE	<1.0 - µg/L
02-07-17	5 - 0	DRO	990 - µg/L
		GRO	<100 - µg/L
		Lead	NA - µg/L
		Naphthalene	<0.5 - µg/L
		sec-Butyl benzene	<0.5 - µg/L
		MTBE	1.6 - µg/L

Notes:

PID = Photoionization Detector

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

MDL = Method Detection Limit

VOCs = Volatile Organic Compounds.

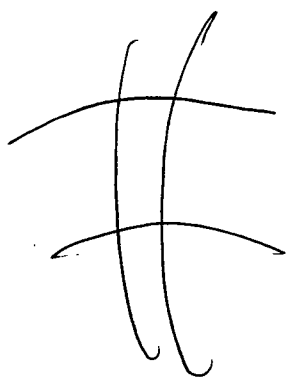
Regulatory Limits (Minnesota Department of Health):

Total Petroleum Hydrocarbons 200 µg/L, Health Based Value (HBV)

Naphthalene 300 µg/L, Health Risk Limit (HRL)

MTBE 70 µg/L, HRL

Lead Not Listed



LOG OF BORING B-1

PROJECT Site Check				SITE CJs Auto Wash Brainerd, Minnesota			
CLIENT Mr. Brian Karl				ARCHITECT-ENGINEER			
DEPTH, FEET	SAMPLE NUMBER AND TYPE	WATER LEVEL	STRATA CHANGE, FEET	DESCRIPTION OF MATERIAL		PID HEADSPACE MEASUREMENTS (PPM)	
10	1			2" Asphalt Brown fine sand (SP) - concrete slab from 3' to 5'		0.8	
20	2	△	19	Brown fine to medium sand (SP) - moist to wet		1.9	
			20.8	Brown silty clay (CL) - moist			
	3		24.2	Brown fine sand (SP) - dry to wet		1.7	
30	4	▼				0.8	
	5					0.3	
40				End of boring at 36' PID measurements are given in parts per million (ppm) Laboratory sample collected at 20-20.5 feet Temporary well screen installed from 29 to 34 feet to collect groundwater sample Borehole was grouted with bentonite			
WATER LEVEL OBSERVATIONS				MILLSOP ASSOCIATES, INC. P.O. BOX 236 CROSBY, MINNESOTA 56441 218-763-2907		BORING STARTED 03-08-05 BORING COMPLETED 03-08-05 RIG Mobile B-61 DRILLER Thein DRAWN MDM APPROVED MDM JOB# M-05-076A SHEET 1 of 1	
W.L. △ 20' Perched While Drilling				The stratification lines represent approximate boundaries between soil types; insitu the transition may be gradual.			
W.L. ▼ 30' While Drilling							
W.L.							

LOG OF BORING B-2

PROJECT Site Check				SITE CJs Auto Wash Brainerd, Minnesota			
CLIENT Mr. Brian Karl				ARCHITECT-ENGINEER			
DEPTH, FEET	SAMPLE NUMBER AND TYPE	WATER LEVEL	STRATA CHANGE, FEET	DESCRIPTION OF MATERIAL		PID HEADSPACE MEASUREMENTS (PPM)	
				2" Asphalt			
	1			Brown fine sand (SP) - dry		1	
10	2					0.5	
	3					0.3	
20	4	△	19.5	Brown silty clay (CL) - moist to wet		0.1	
	5		24	Brown fine sand (SP) - dry		0.1	
30	6	▼	29	Brown fine to medium sand (SP) - moist to wet		0.1	
40				End of boring at 34' PID measurements are given in parts per million (ppm) Laboratory sample collected at 20-20.5 feet Temporary well screen installed from 29 to 34 feet to collect groundwater sample Borehole was grouted with bentonite			

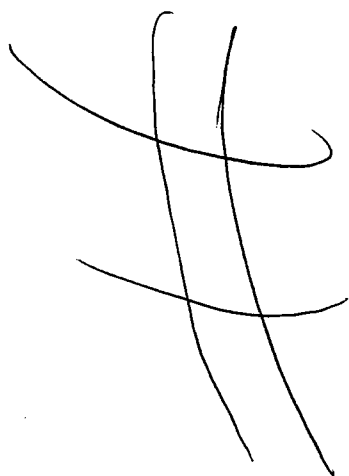
WATER LEVEL OBSERVATIONS				BORING STARTED		03-08-05	
W.L.	△	19.5'	Perched While Drilling	BORING COMPLETED		03-08-05	
W.L.	▼	30'	While Drilling	RIG	Mobile B-61	DRILLER	Thein
W.L.				DRAWN	MDM	APPROVED	MDM
				JOB#	M-05-076A	SHEET	1 of 1
				The stratification lines represent approximate boundaries between soil types; insitu the transition may be gradual.			

MILLSOP ASSOCIATES, INC.
P.O. BOX 236
CROSBY, MINNESOTA 56441
218-763-2907

LOG OF BORING B-3

PROJECT Site Check			SITE CJs Auto Wash Brainerd, Minnesota		
CLIENT Mr. Brian Karl			ARCHITECT-ENGINEER		
DEPTH, FEET	SAMPLE NUMBER AND TYPE	WATER LEVEL	STRATA CHANGE, FEET	DESCRIPTION OF MATERIAL	PID HEADSPACE MEASUREMENTS (PPM)
				2" Asphalt	
				Brown fine sand (SP) - dry to wet	
	1				0.3
10	2				0.1
	3				0.2
20	4	△	22		0.1
				Brown silty clay (CL) - moist	
	5		25		0.1
				Brown fine sand (SP) - dry	
			29		
30	6	▼		Brown fine to medium sand (SP) - moist to wet	0.1
				End of boring at 34'	
				PID measurements are given in parts per million (ppm)	
				Laboratory sample collected at 20-20.5 feet	
				Temporary well screen installed from 29 to 34 feet to collect groundwater sample	
				Borehole was grouted with bentonite	
40					

WATER LEVEL OBSERVATIONS		MILLSOP ASSOCIATES, INC. P.O. BOX 236 CROSBY, MINNESOTA 56441 218-763-2907	BORING STARTED		03-08-05	
W.L.	△ 20' Perched While Drilling		BORING COMPLETED		03-08-05	
W.L.	▼ 30' While Drilling		RIG	Mobile B-61	DRILLER	Thein
W.L.			DRAWN	MDM	APPROVED	MDM
			JOB#	M-05-076A	SHEET 1 of 1	
The stratification lines represent approximate boundaries between soil types; insitu the transition may be gradual.						



INVESTIGATION PROCEDURES

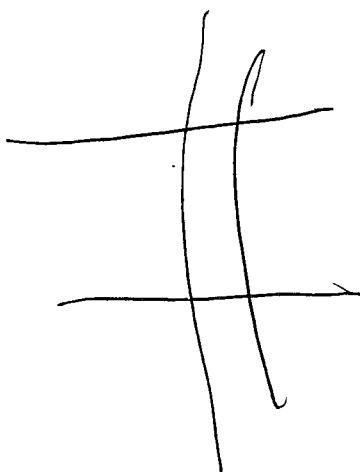
1. Soil Borings

On March 8, 2005, Thein Well Company drilled three environmental soil borings with a Mobile B-51 drill rig. Underground utilities were cleared prior to drilling. The drill rig, augers and sampling devices were cleaned prior to mobilization to the site and between boring locations as needed.

The soil borings were advanced using 4-1/4 inch inside diameter continuous flight hollow stem augers. Soils were sampled at about 5 foot intervals by the split barrel method (ASTM: D 1586). The split barrel sampler was washed in a tri-sodium phosphate solution and rinsed with distilled water prior to collection of each sample. The approximate groundwater level in each boring was noted by measuring the depth to saturated soils. Groundwater samples then were collected with a disposable bailer through temporary PVC wells installed through the augers which were retracted, prior to sampling. The borings were grouted with bentonite upon completion.

Our Principal Hydrogeologist conducted headspace analyses on representative portions of the recovered soil samples using a Mini Rae PID. Polyethylene bag headspace analyses were conducted in general accordance with MPCA guidance documents. Also, one soil sample was collected from each boring for laboratory analyses. New nitrile sampling gloves and sample containers were used to collect all of the soil and groundwater samples.

The Soil Boring Logs in the Appendix summarize the USCS soil classifications and observed groundwater levels. Soil samples from the borings were classified by our Principal Hydrogeologist.





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: 856920

Client: MILLSOP ASSOCIATES

Lab Contact: Eric Bullock

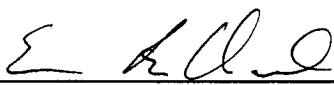
Project Name: CJS

Project Number:

Lab Sample Number	Field ID	Matrix	Collection Date
856920-001	TRIP BLANK MEOH	METH	03/08/05
856920-002	TRIP BLANK WATER	WATER	03/08/05
856920-003	B-1, 20'	SOIL	03/08/05
856920-004	B-1	WATER	03/08/05
856920-005	B-2, 20'	SOIL	03/08/05
856920-006	B-2	WATER	03/08/05
856920-007	B-3, 20'	SOIL	03/08/05
856920-008	B-3	WATER	03/08/05
856920-009	B-4 <i>Duplicate of B-2</i>	WATER	03/08/05

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. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.


Approval Signature

3/17/05
Date

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 856920

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

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : TRIP BLANK MEOH

Matrix Type : METHANOL

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-001

BTEX + MTBE

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 25	25	50	ug/L		03/10/05	SW846 5030B	WI MOD GRO
Ethylbenzene	< 25	25	50	ug/L		03/10/05	SW846 5030B	WI MOD GRO
Methyl-tert-butyl-ether	< 25	25	50	ug/L		03/10/05	SW846 5030B	WI MOD GRO
Toluene	< 25	25	50	ug/L		03/10/05	SW846 5030B	WI MOD GRO
Xylene, o	< 25	25	50	ug/L		03/10/05	SW846 5030B	WI MOD GRO
Xylenes, m + p	< 25	25	50	ug/L		03/10/05	SW846 5030B	WI MOD GRO
a,a,a-Trifluorotoluene	102	---	1	%Recov		03/10/05	SW846 5030B	WI MOD GRO

BTEX BLANK

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1607-10		1					

GASOLINE RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Gasoline Range Organics	< 2500	2500	50	ug/L		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank	< 50	50	1	ug/L		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike	112	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike Duplicate	112	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO

En Chem**Analytical Report Number: 856920**1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : MILLSOP ASSOCIATES**Project Name :** CJS**Project Number :****Field ID :** TRIP BLANK WATER**Matrix Type :** WATER**Collection Date :** 03/08/05**Report Date :** 03/16/05**Lab Sample Number :** 856920-002**VOLATILES - MDH 498 LIST****Prep Date:** 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
2-Butanone	< 5.0	5.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
4-Methyl-2-pentanone	< 5.0	5.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Acetone	< 5.0	5.0	1	ug/L	&	03/10/05	SW846 5030B	SW846 8260B
Allyl Chloride	< 5.0	5.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Benzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Bromobenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Bromoform	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Bromomethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Chloroethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Chloroform	1.3	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Chloromethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Dibromomethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Dichlorofluoromethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Diethyl Ether	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 856920

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

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : TRIP BLANK WATER

Matrix Type : WATER

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-002

VOLATILES - MDH 498 LIST

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hexachlorobutadiene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Naphthalene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Styrene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Tetrahydrofuran	< 5.0	5.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Trichloroethene	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Xylene, o	< 1.0	1.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 2.0	2.0	1	ug/L		03/10/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	80	---	1	%Recov		03/10/05	SW846 5030B	SW846 8260B
Toluene-d8	86	---	1	%Recov		03/10/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	95	---	1	%Recov		03/10/05	SW846 5030B	SW846 8260B

VOLATILES BLANK

Prep Date:

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
VOC Blank ID	1602-87		1					

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 856920

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

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : B-1, 20'

Matrix Type : SOIL

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-003

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	79.6	---	1	%		03/10/05	SM 2540G M	SM 2540G M

DIESEL RANGE ORGANICS

Prep Date: 03/10/05

Preservation Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 4.3	4.3	1	mg/kg		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank	< 5.0	5.0	1	mg/kg		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike	81	---	1	%Recov		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	94	---	1	%Recov		03/11/05	WI MOD DRO	WI MOD DRO

BTEX + MTBE

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 31	31	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Ethylbenzene	< 31	31	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Methyl-tert-butyl-ether	< 31	31	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Toluene	< 31	31	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Xylene, o	< 31	31	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Xylenes, m + p	< 31	31	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
a,a,a-Trifluorotoluene	102	---	1	%Recov		03/10/05	5035/5030B	WI MOD GRO

BTEX BLANK

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1607-10		1					

GASOLINE RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Gasoline Range Organics	< 3.1	3.1	50	mg/kg		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank	< 2.5	2.5	50	mg/kg		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike	112	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike Duplicate	112	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO

En Chem

Analytical Report Number: 856920

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

A Division of Pace Analytical Services, Inc.

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : B-1

Matrix Type : WATER

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-004

DIESEL RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 94	94	1	ug/L		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank	< 50	50	1	ug/L		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike	87	---	1	%Recov		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	86	---	1	%Recov		03/11/05	WI MOD DRO	WI MOD DRO

GASOLINE RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Gasoline Range Organics	< 50	50	1	ug/L		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank	< 50	50	1	ug/L		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike	109	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike Duplicate	109	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO

VOLATILES - MDH 498 LIST

Prep Date: 03/11/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2-Butanone	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Methyl-2-pentanone	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Acetone	< 5.0	5.0	1	ug/L	&	03/11/05	SW846 5030B	SW846 8260B
Allyl Chloride	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Benzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromoform	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B

En Chem

Analytical Report Number: 856920

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

A Division of Pace Analytical Services, Inc.

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : B-1

Matrix Type : WATER

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-004

VOLATILES - MDH 498 LIST

Prep Date: 03/11/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Carbon Tetrachloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloroform	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dibromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dichlorofluoromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Diethyl Ether	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Naphthalene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Styrene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Tetrahydrofuran	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Trichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Xylene, o	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 2.0	2.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	79	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B
Toluene-d8	87	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	97	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B

VOLATILES BLANK

Prep Date:

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
VOC Blank ID	1602-87		1					

En Chem**Analytical Report Number: 856920**1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

A Division of Pace Analytical Services, Inc.

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : B-2, 20'

Matrix Type : SOIL

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-005

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	71.5	---	1	%		03/10/05	SM 2540G M	SM 2540G M

DIESEL RANGE ORGANICS

Prep Date: 03/11/05

Preservation Date: 03/11/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 4.6	4.6	1	mg/kg		03/15/05	WI MOD DRO	WI MOD DRO
DRO Blank	< 5.0	5.0	1	mg/kg		03/15/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike	91	---	1	%Recov		03/15/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	93	---	1	%Recov		03/15/05	WI MOD DRO	WI MOD DRO

BTEX + MTBE

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 35	35	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Ethylbenzene	< 35	35	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Methyl-tert-butyl-ether	< 35	35	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Toluene	< 35	35	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Xylene, o	< 35	35	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Xylenes, m + p	< 35	35	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
a,a,a-Trifluorotoluene	102	---	1	%Recov		03/10/05	5035/5030B	WI MOD GRO

BTEX BLANK

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1607-10		1					

GASOLINE RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Gasoline Range Organics	< 3.5	3.5	50	mg/kg		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank	< 2.5	2.5	50	mg/kg		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike	112	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike Duplicate	112	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 8569201241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : B-2

Matrix Type : WATER

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-006

DIESEL RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 94	94	1	ug/L		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank	< 50	50	1	ug/L		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike	87	---	1	%Recov		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	86	---	1	%Recov		03/11/05	WI MOD DRO	WI MOD DRO

GASOLINE RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Gasoline Range Organics	< 50	50	1	ug/L		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank	< 50	50	1	ug/L		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike	109	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike Duplicate	109	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO

VOLATILES - MDH 498 LIST

Prep Date: 03/11/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2-Butanone	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Methyl-2-pentanone	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Acetone	< 5.0	5.0	1	ug/L	&	03/11/05	SW846 5030B	SW846 8260B
Allyl Chloride	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Benzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromoform	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 8569201241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : B-2

Matrix Type : WATER

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-006

VOLATILES - MDH 498 LIST

Prep Date: 03/11/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Carbon Tetrachloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloroform	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dibromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dichlorofluoromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Diethyl Ether	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	1.7	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Naphthalene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Styrene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Tetrahydrofuran	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Trichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Xylene, o	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 2.0	2.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	81	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B
Toluene-d8	84	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	98	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B

VOLATILES BLANK

Prep Date:

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
VOC Blank ID	1602-87		1					

En Chem

Analytical Report Number: 856920

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

A Division of Pace Analytical Services, Inc.

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : B-3, 20'

Matrix Type : SOIL

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-007

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	83.2	---	1	%		03/10/05	SM 2540G M	SM 2540G M

DIESEL RANGE ORGANICS

Prep Date: 03/11/05

Preservation Date: 03/11/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 3.6	3.6	1	mg/kg		03/15/05	WI MOD DRO	WI MOD DRO
DRO Blank	< 5.0	5.0	1	mg/kg		03/15/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike	91	---	1	%Recov		03/15/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	93	---	1	%Recov		03/15/05	WI MOD DRO	WI MOD DRO

BTEX + MTBE

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Benzene	< 30	30	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Ethylbenzene	< 30	30	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Methyl-tert-butyl-ether	< 30	30	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Toluene	< 30	30	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Xylene, o	< 30	30	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
Xylenes, m + p	< 30	30	50	ug/kg		03/10/05	5035/5030B	WI MOD GRO
a,a,a-Trifluorotoluene	102	---	1	%Recov		03/10/05	5035/5030B	WI MOD GRO

BTEX BLANK

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
BTEX Blank ID	1607-10		1					

GASOLINE RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Gasoline Range Organics	< 3.0	3.0	50	mg/kg		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank	< 2.5	2.5	50	mg/kg		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike	112	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike Duplicate	112	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 856920

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

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : B-3

Matrix Type : WATER

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-008

DIESEL RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	100	94	1	ug/L	M	03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank	< 50	50	1	ug/L		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike	87	---	1	%Recov		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	86	---	1	%Recov		03/11/05	WI MOD DRO	WI MOD DRO

GASOLINE RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Gasoline Range Organics	< 50	50	1	ug/L		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank	< 50	50	1	ug/L		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike	109	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike Duplicate	109	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO

VOLATILES - MDH 498 LIST

Prep Date: 03/11/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2-Butanone	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Methyl-2-pentanone	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Acetone	< 5.0	5.0	1	ug/L	&	03/11/05	SW846 5030B	SW846 8260B
Allyl Chloride	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Benzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromoform	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 8569201241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : B-3

Matrix Type : WATER

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-008

VOLATILES - MDH 498 LIST

Prep Date: 03/11/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Carbon Tetrachloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloroform	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dibromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dichlorofluoromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Diethyl Ether	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Naphthalene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Styrene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Tetrahydrofuran	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Trichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Xylene, o	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 2.0	2.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	80	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B
Toluene-d8	87	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	95	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B

VOLATILES BLANK

Prep Date:

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
VOC Blank ID	1602-87		1					

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 856920

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

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : B-4 (3-2 64)

Matrix Type : WATER

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-009

DIESEL RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 94	94	1	ug/L		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank	< 50	50	1	ug/L		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike	87	---	1	%Recov		03/11/05	WI MOD DRO	WI MOD DRO
DRO Blank Spike Duplicate	86	---	1	%Recov		03/11/05	WI MOD DRO	WI MOD DRO

GASOLINE RANGE ORGANICS

Prep Date: 03/10/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Gasoline Range Organics	< 50	50	1	ug/L		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank	< 50	50	1	ug/L		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike	109	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO
GRO Blank Spike Duplicate	109	---	1	%Recov		03/10/05	WI MOD GRO	WI MOD GRO

VOLATILES - MDH 498 LIST

Prep Date: 03/11/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2-Butanone	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Methyl-2-pentanone	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Acetone	< 5.0	5.0	1	ug/L	&	03/11/05	SW846 5030B	SW846 8260B
Allyl Chloride	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Benzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromochloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromodichloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromoform	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Bromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B

En Chem

A Division of Pace Analytical Services, Inc.

Analytical Report Number: 856920

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

Client : MILLSOP ASSOCIATES

Project Name : CJS

Project Number :

Field ID : B-4

Matrix Type : WATER

Collection Date : 03/08/05

Report Date : 03/16/05

Lab Sample Number : 856920-009

VOLATILES - MDH 498 LIST

Prep Date: 03/11/05

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Carbon Tetrachloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chlorobenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloroethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloroform	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Chloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dibromomethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Dichlorofluoromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Diethyl Ether	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Isopropylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Methylene Chloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	1.4	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Naphthalene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
N-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
n-Propylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Styrene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Tetrachloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Tetrahydrofuran	< 5.0	5.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Trichloroethene	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Vinyl Chloride	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Xylene, o	< 1.0	1.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
Xylenes, m + p	< 2.0	2.0	1	ug/L		03/11/05	SW846 5030B	SW846 8260B
4-Bromofluorobenzene	79	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B
Toluene-d8	80	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B
Dibromofluoromethane	98	---	1	%Recov		03/11/05	SW846 5030B	SW846 8260B

VOLATILES BLANK

Prep Date:

Analyte	Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
VOC Blank ID	1602-87		1					

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.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
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	All	Concentration detected equal to or 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	856920-001	856920-002	856920-003	856920-004	856920-005	856920-006	856920-007	856920-008	856920-009
BTEX + MTBE	G		G		G		G		
BTEX BLANK	G		G		G		G		
DIESEL RANGE ORGANICS			G	G	G	G	G	G	G
GASOLINE RANGE ORGANICS	G		G	G	G	G	G	G	G
PERCENT SOLIDS			G		G		G		
VOLATILES - MDH 498 LIST		G		G		G		G	G
VOLATILES BLANK		G		G		G		G	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	
I = Other Pace Lab Analysis	

Data File: \\lxgb1\data2\chem\dro2.i\031105.b\011F0101.D

Page 2

Date : 11-MAR-2005 12:03

Client ID: 856920-003

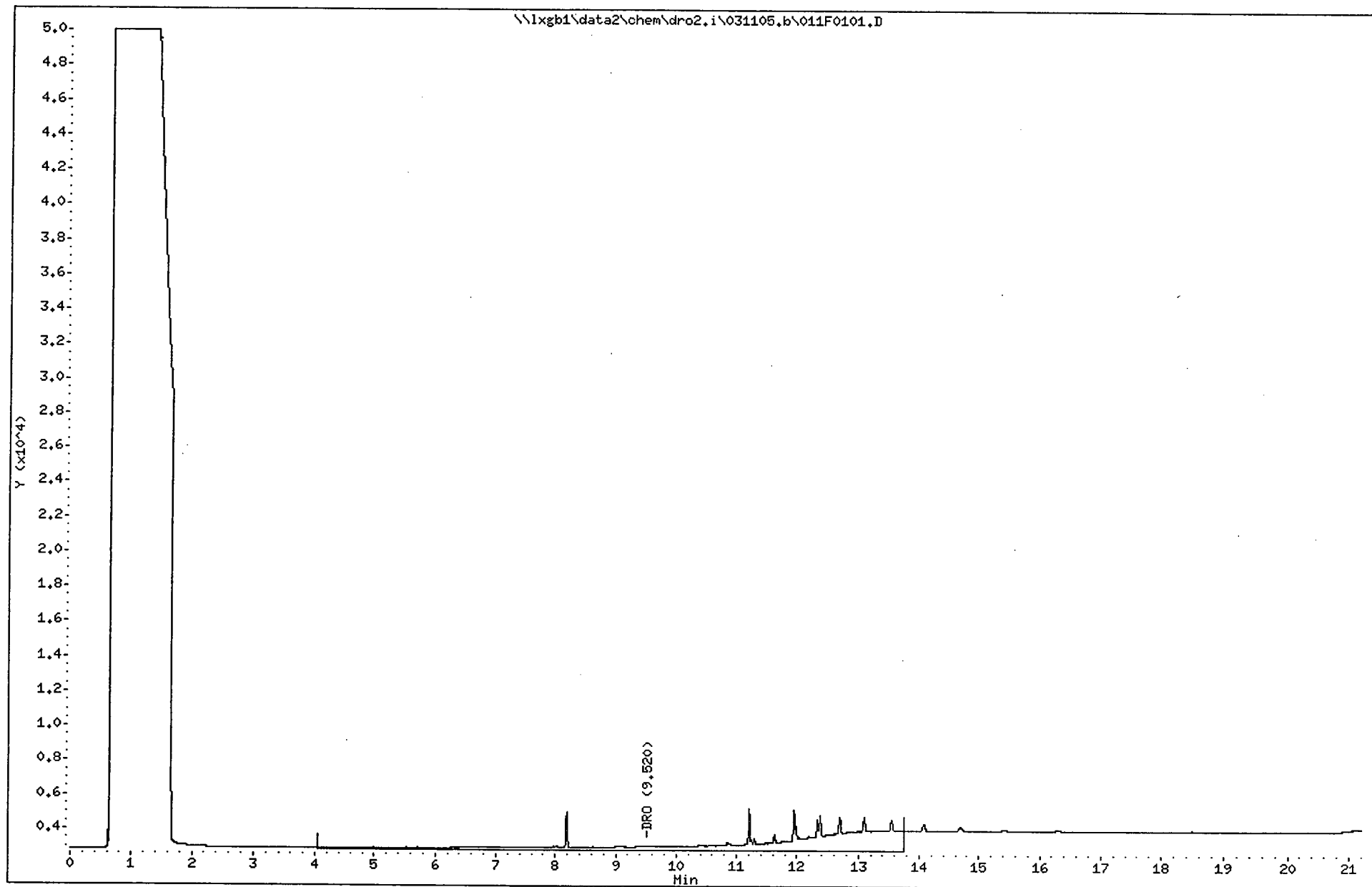
Sample Info: 56920D003SDX1

Instrument: dro2.i

Operator: SVM

Column diameter: 0.53

Column phase: RTX-5/I.G.



Date : 11-MAR-2005 18:34

Client ID: 856920-004

Sample Info: 56920D004WXX1

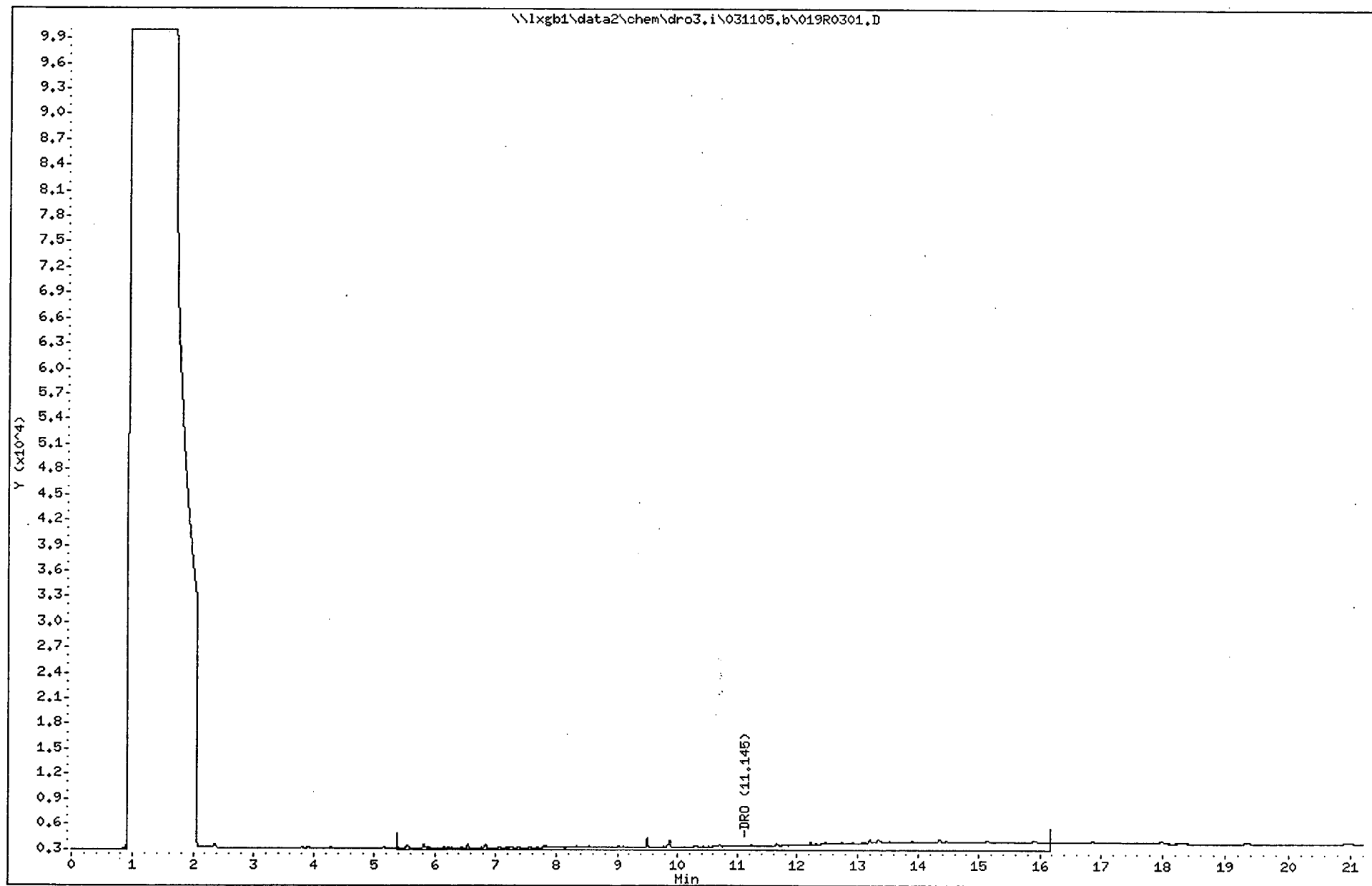
Purge Volume: 1000.0

Column phase: RTX-5/I.G.

Instrument: dro3.i

Operator: SVM

Column diameter: 0.53



Data File: \\lxgb1\data2\chem\dro2.i\031505.b\005F0101.D

Page 2

Date : 15-MAR-2005 15:03

Client ID: 856920-005

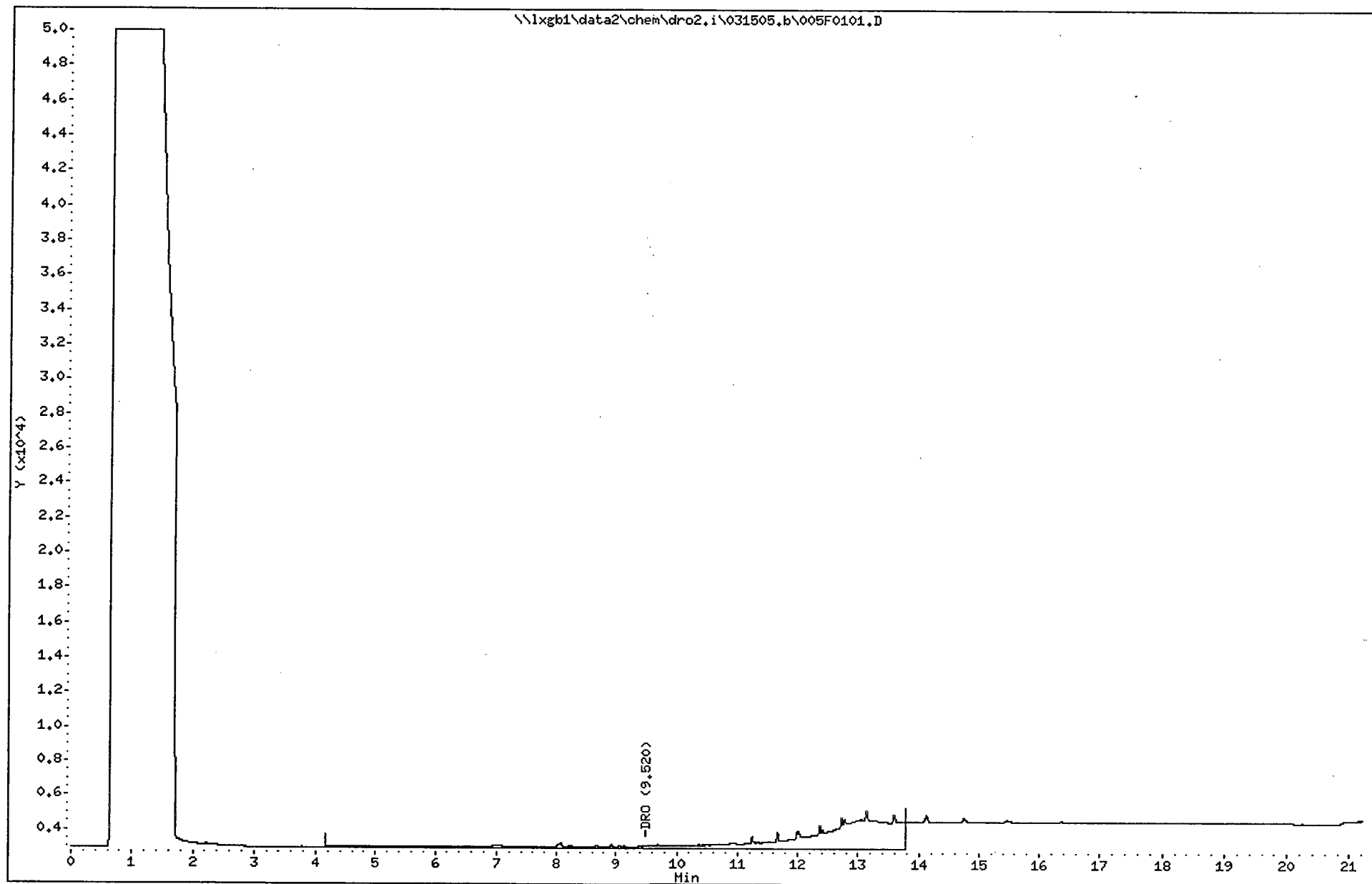
Sample Info: 56920D005SFX1

Instrument: dro2.i

Operator: SVM

Column diameter: 0.53

Column phase: RTX-5/I.G.



Data File: \\lxgb1\data2\chem\dro3.i\031105.b\020R0301.D

Page 2

Date : 11-MAR-2005 19:01

Client ID: 856920-006

Sample Info: 56920D006WXX1

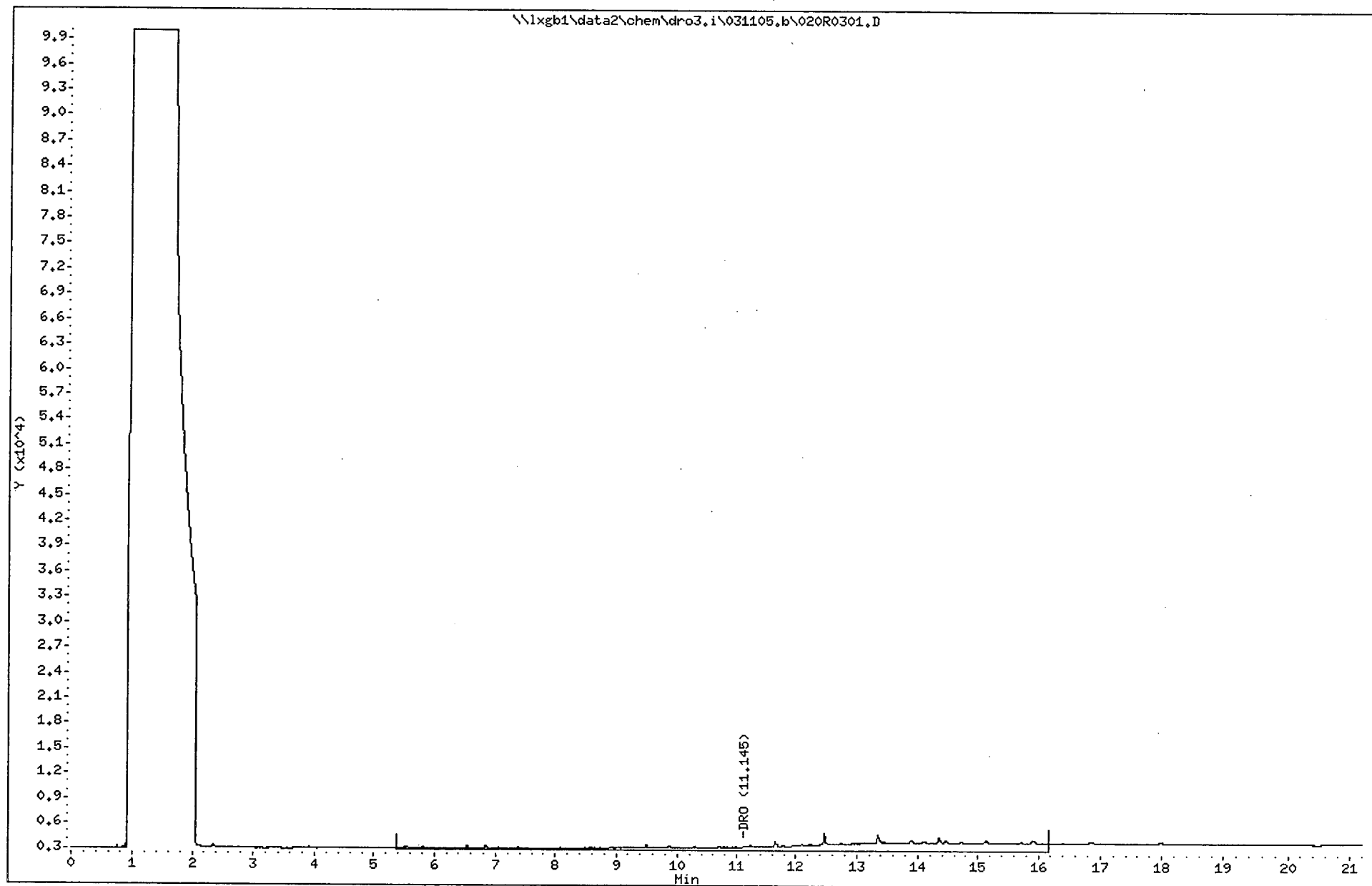
Purge Volume: 1000.0

Column phase: RTX-5/I.G.

Instrument: dro3.i

Operator: SVM

Column diameter: 0.53



Data File: \\lxb1\data2\chem\dro2.i\031505.b\006F0101.D

Page 2

Date : 15-MAR-2005 15:30

Client ID: 856920-007

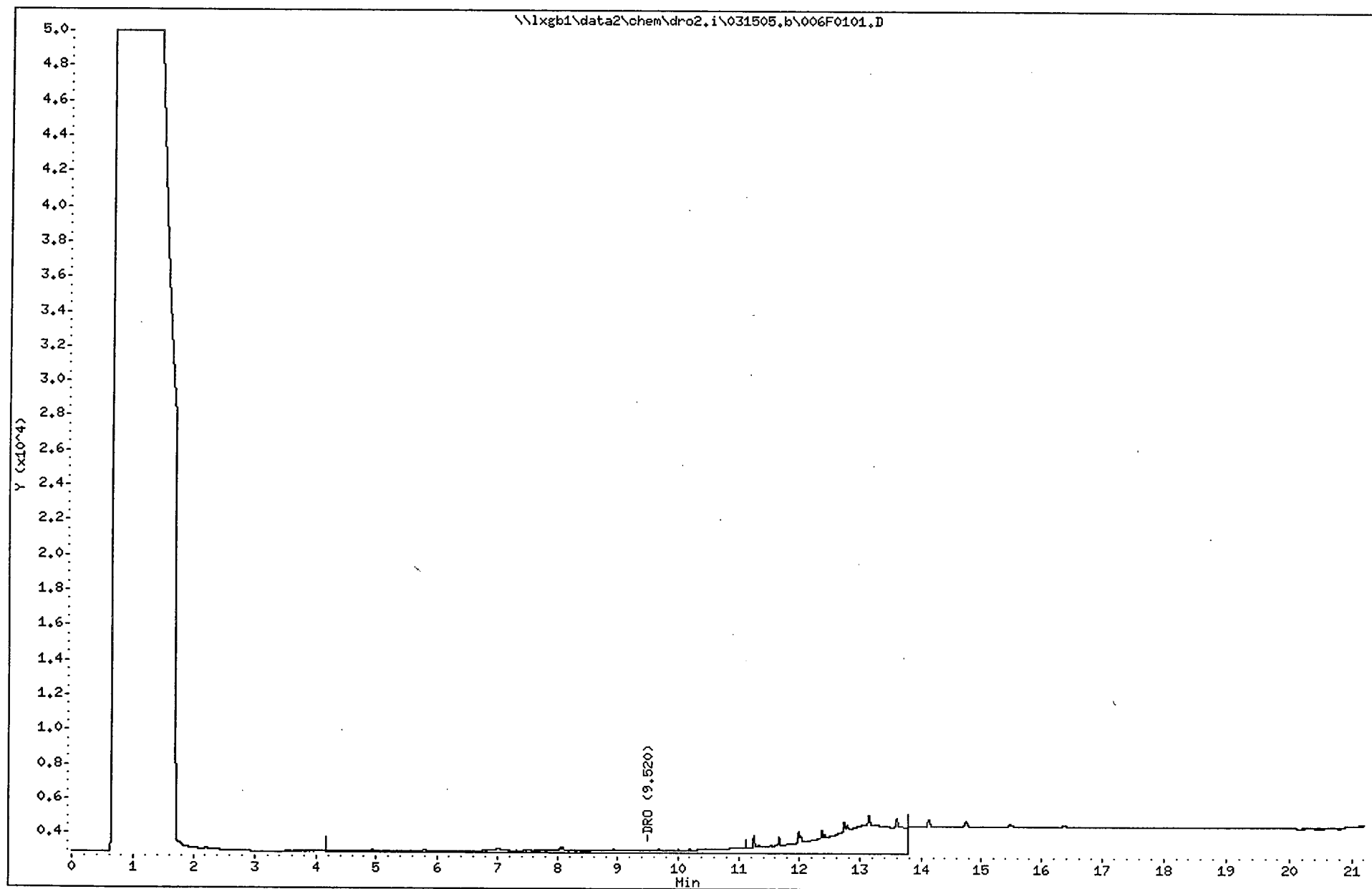
Sample Info: 56920D007SFX1

Instrument: dro2.i

Operator: SVM

Column diameter: 0.53

Column phase: RTX-5/I.G.



Date : 11-MAR-2005 19:28

Client ID: 856920-008

Sample Info: 56920D008WXX1

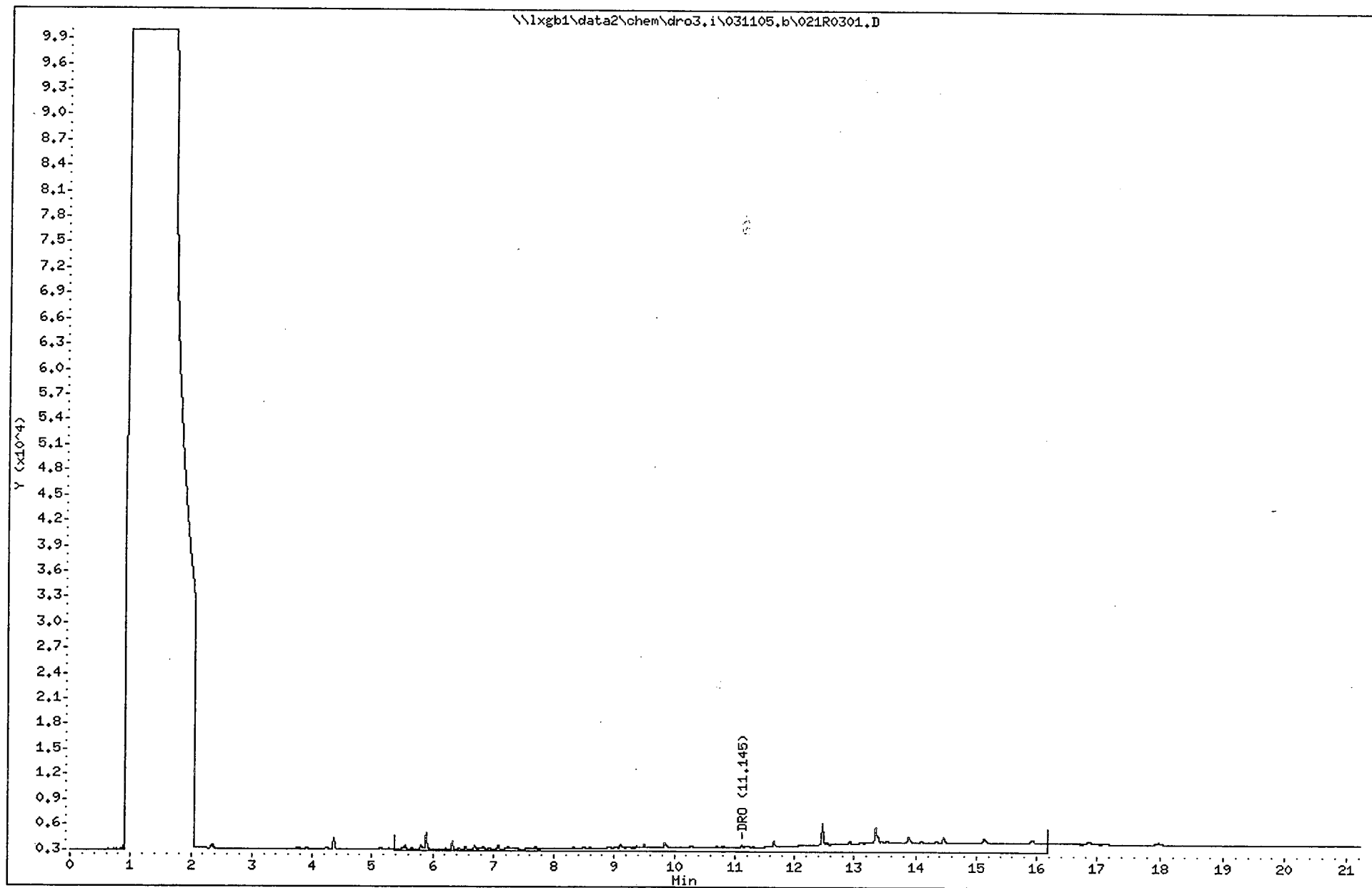
Purge Volume: 1000.0

Column phase: RTX-5/I.G.

Instrument: dro3.i

Operator: SVM

Column diameter: 0.53



Data File: \\lxgb1\data2\chem\dro3.i\031105.b\022R0301.D

Page 2

Date : 11-MAR-2005 19:54

Client ID: 856920-009

Sample Info: 56920D009WXX1

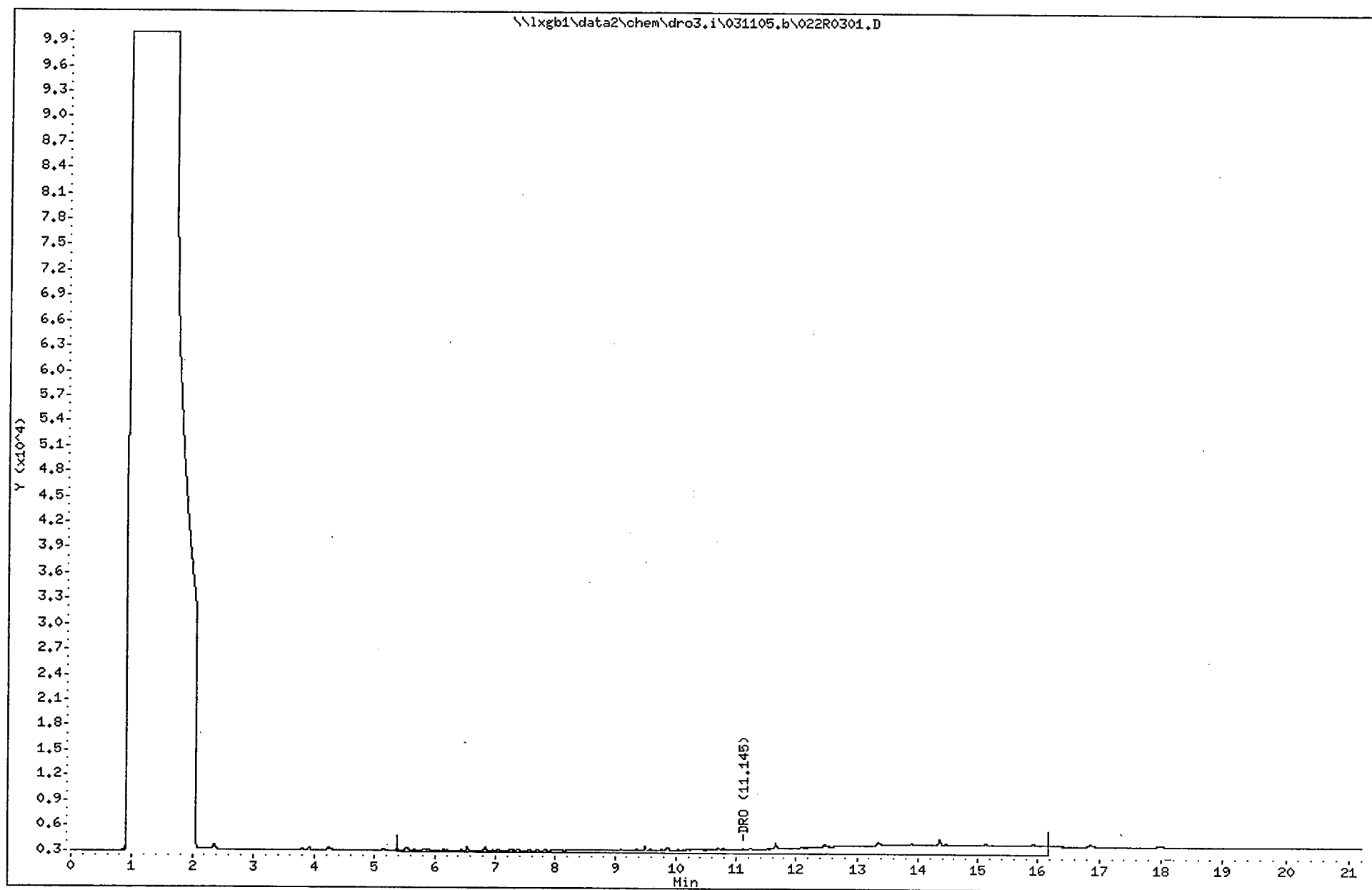
Purge Volume: 1000.0

Column phase: RTX-5/I.G.

Instrument: dro3.i

Operator: SVM

Column diameter: 0.53



Date : 10-MAR-2005 19:11

Client ID: 856920-001

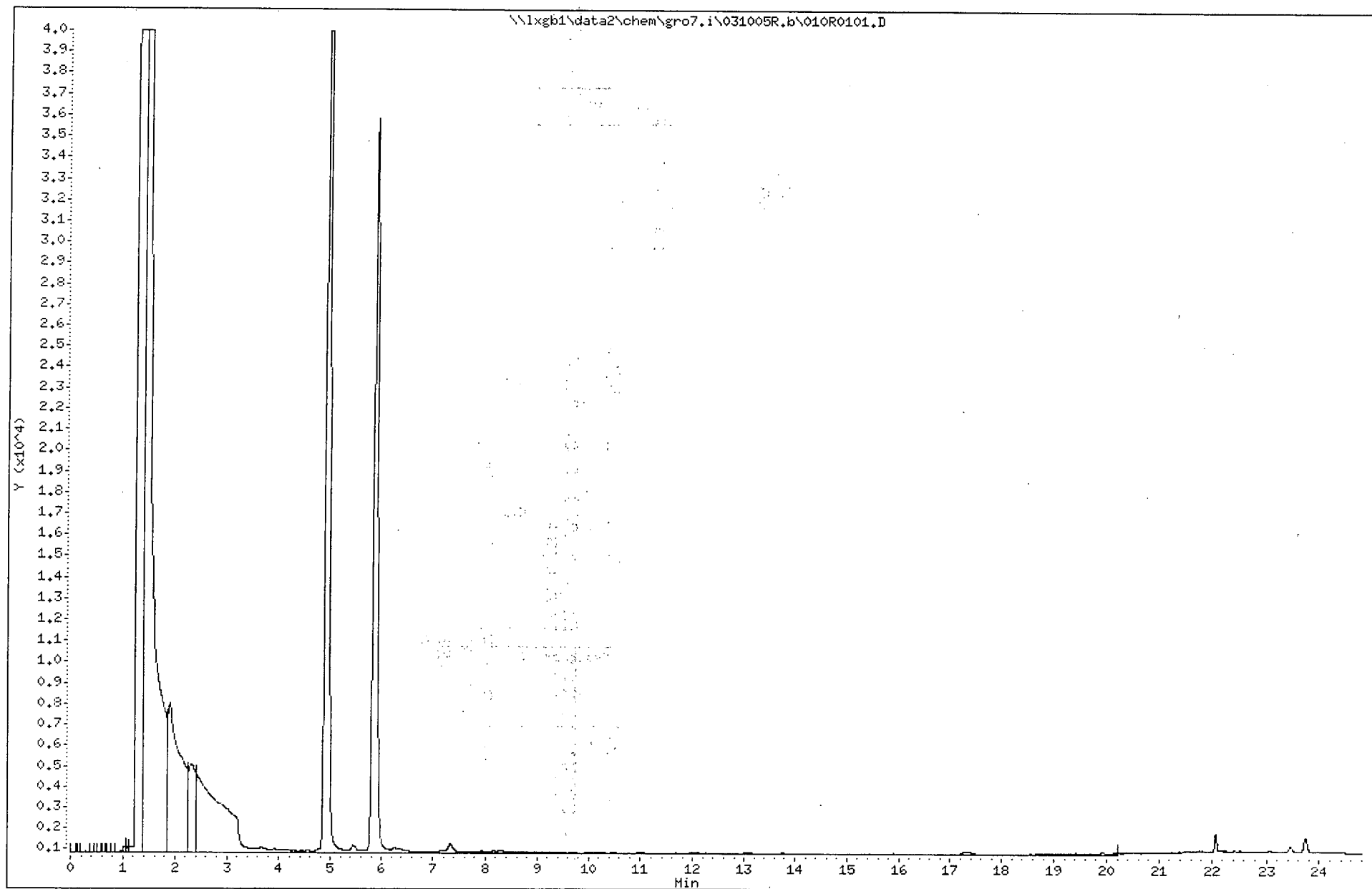
Sample Info: 56920F001MCM50

Instrument: gro7.i

Operator: ASH

Column diameter: 0.53

Column phase: DB-624



Data File: \\lxgb1\data2\chem\gro7.i\031005R.b\006R0101.D

Page 2

Date : 10-MAR-2005 17:02

Client ID: 856920-003

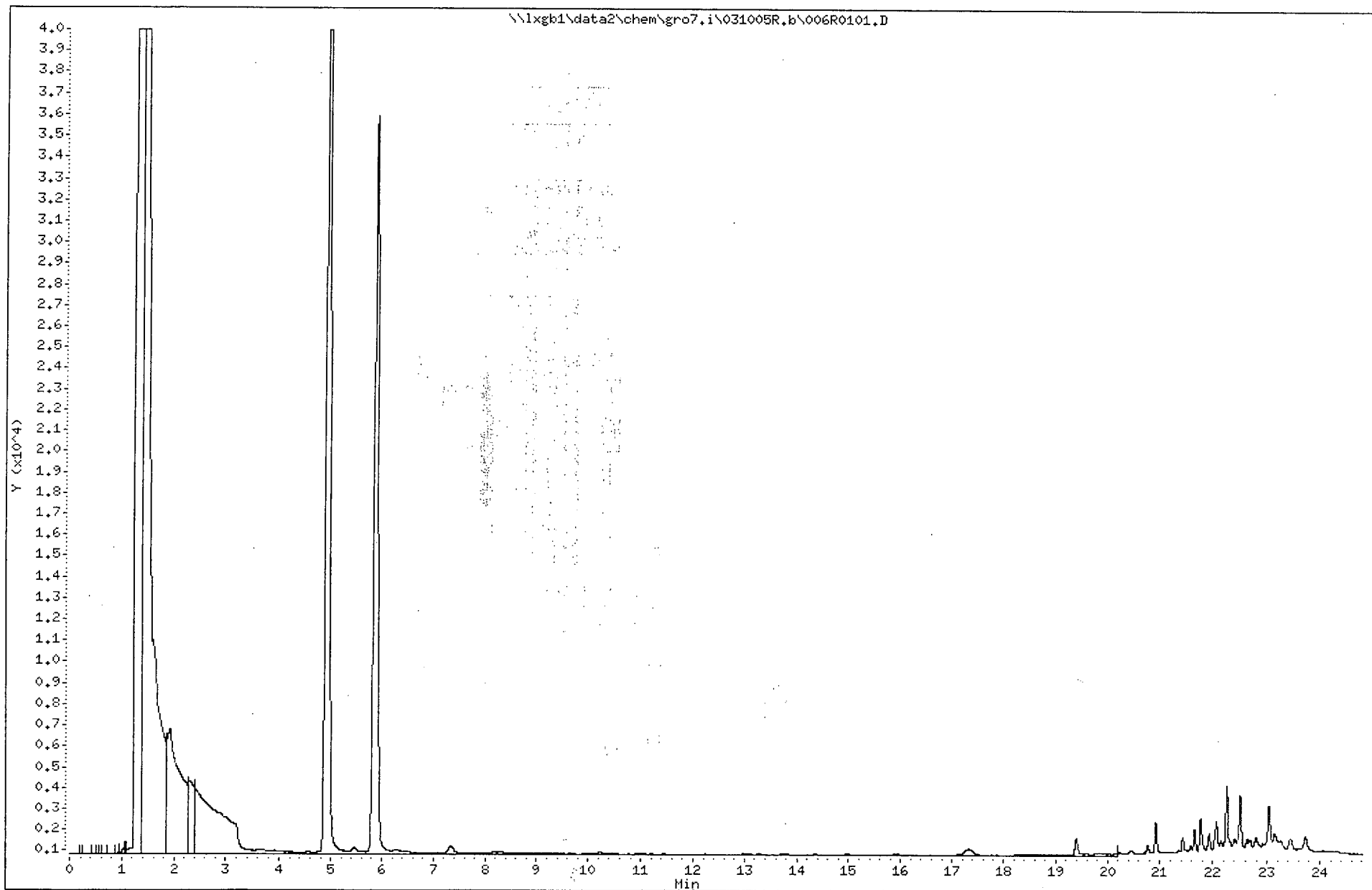
Sample Info: 56920F003SCH50

Instrument: gro7.i

Operator: ASH

Column diameter: 0.53

Column phase: DB-624



Date : 10-MAR-2005 15:57

Client ID: 856920-004

Sample Info: 56920B004WA01

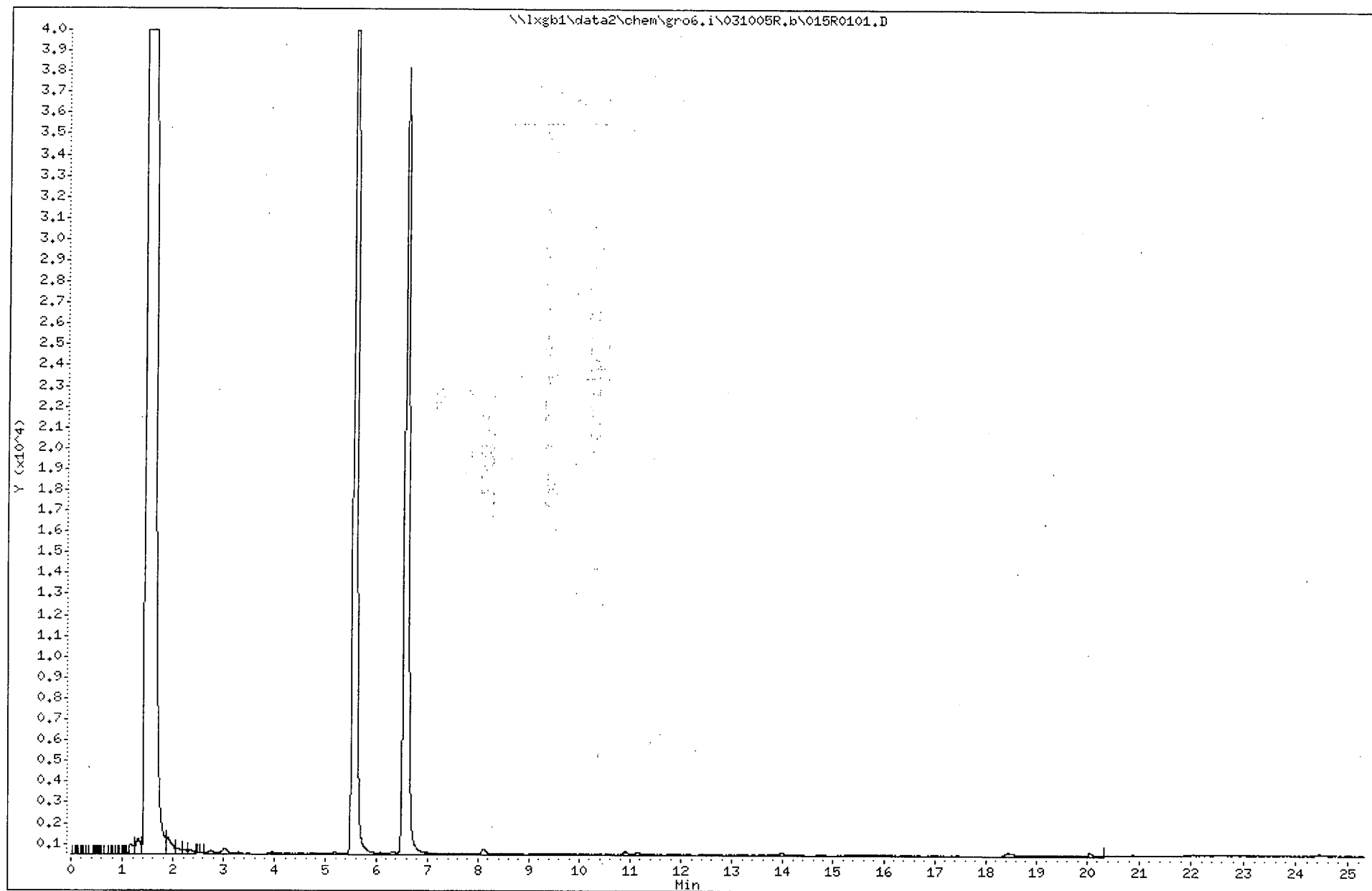
Purge Volume: 5.0

Column phase: DB-624

Instrument: gro6.i

Operator: SES

Column diameter: 0.53



Date : 10-MAR-2005 17:35

Client ID: 856920-005

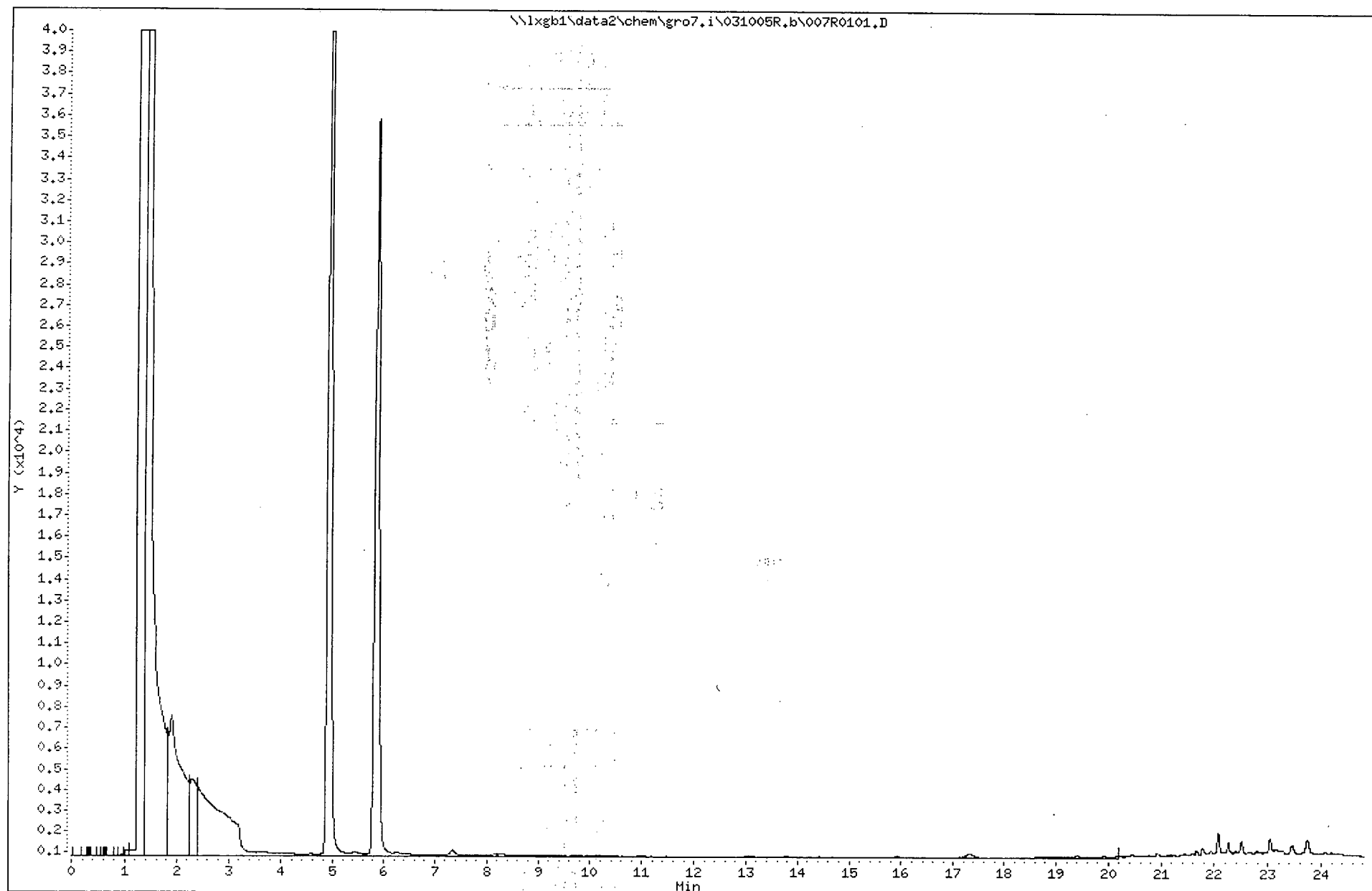
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Instrument: gro7.i

Operator: ASH

Column diameter: 0,53

Column phase: DB-624



Data File: \\lsgb1\data2\chem\gro6.i\031005R.b\016R0101.D

Page 2

Date : 10-MAR-2005 16:30

Client ID: 856920-006

Instrument: gro6.i

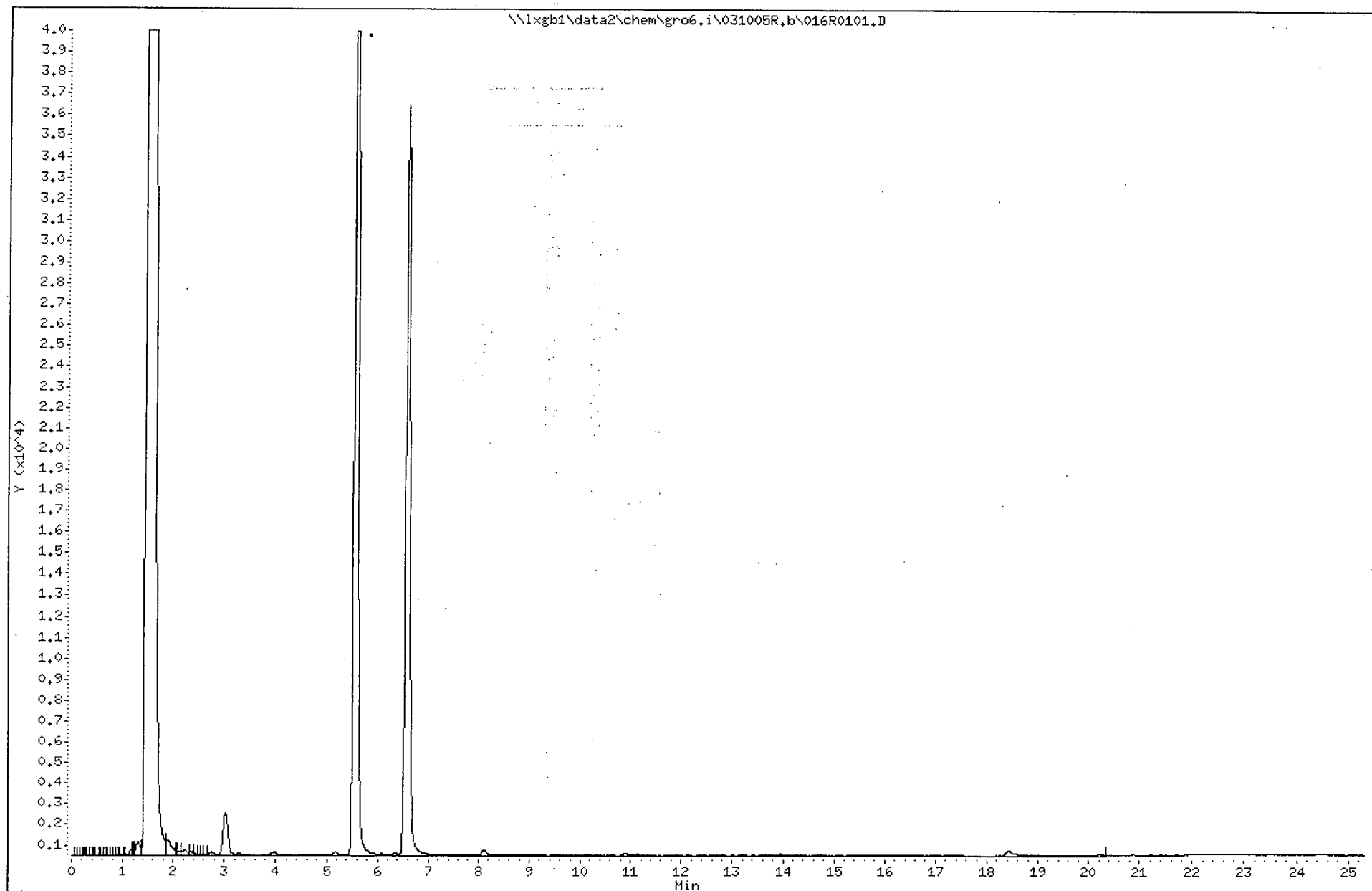
Sample Info: 56920B006WAD1

Purge Volume: 5.0

Operator: SES

Column phase: DB-624

Column diameter: 0.53



Date : 10-MAR-2005 18:07

Client ID: 856920-007

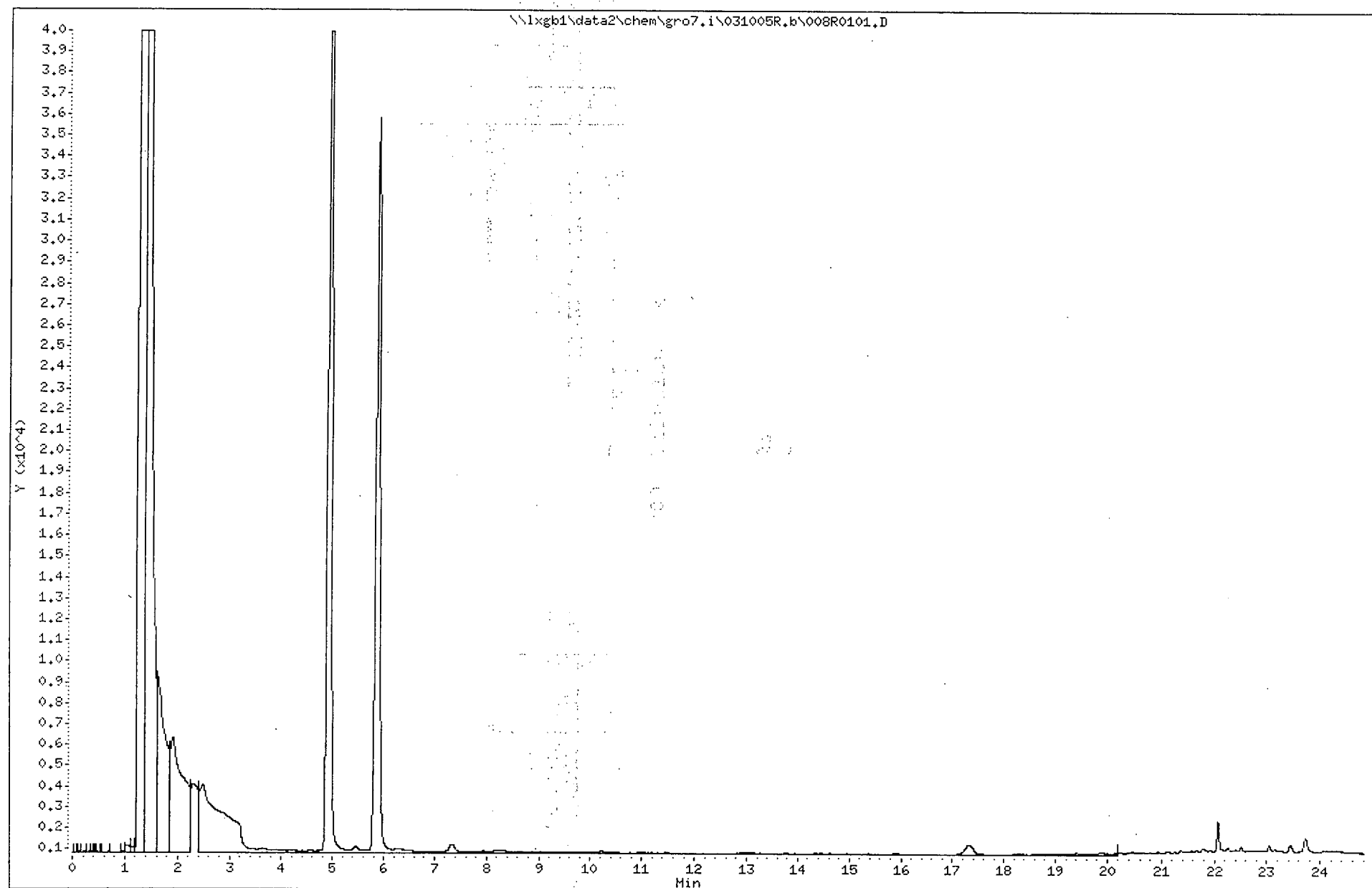
Sample Info: 56920F007SCH50

Instrument: gro7.i

Operator: ASM

Column diameter: 0.53

Column phase: DB-624



Data File: \\lxgb1\data2\chem\gro6.i\031005R.b\017R0101.D

Page 2

Date : 10-MAR-2005 17:04

Client ID: 856920-008

Sample Info: 56920B008WA01

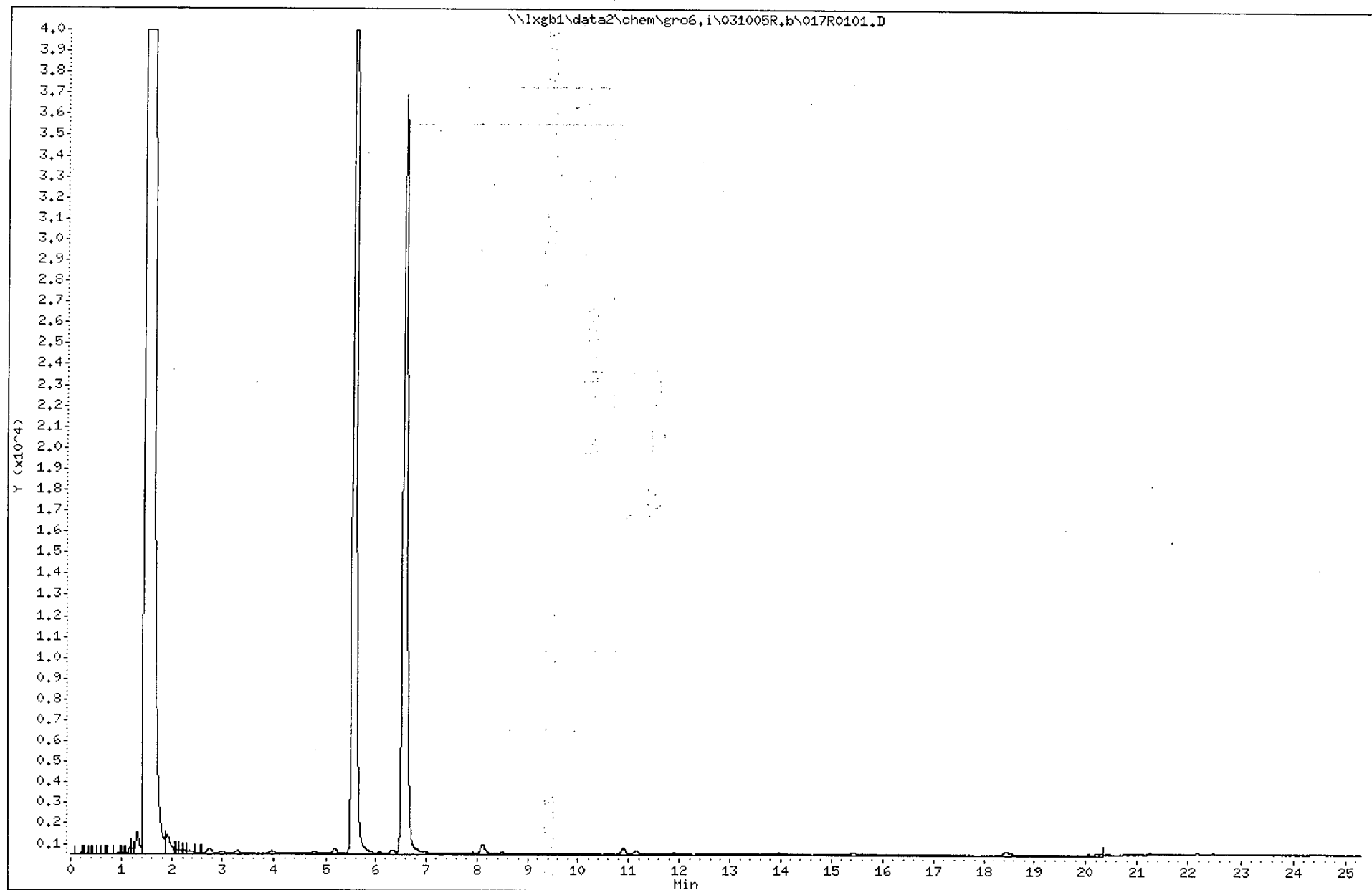
Purge Volume: 5.0

Column phase: DB-624

Instrument: gro6.i

Operator: SES

Column diameter: 0.53



Data File: \\lxgb1\data2\chem\gro6.i\031005R.b\018R0101.D

Page 2

Date : 10-MAR-2005 17:38

Client ID: 856920-009

Sample Info: 56920B009WA01

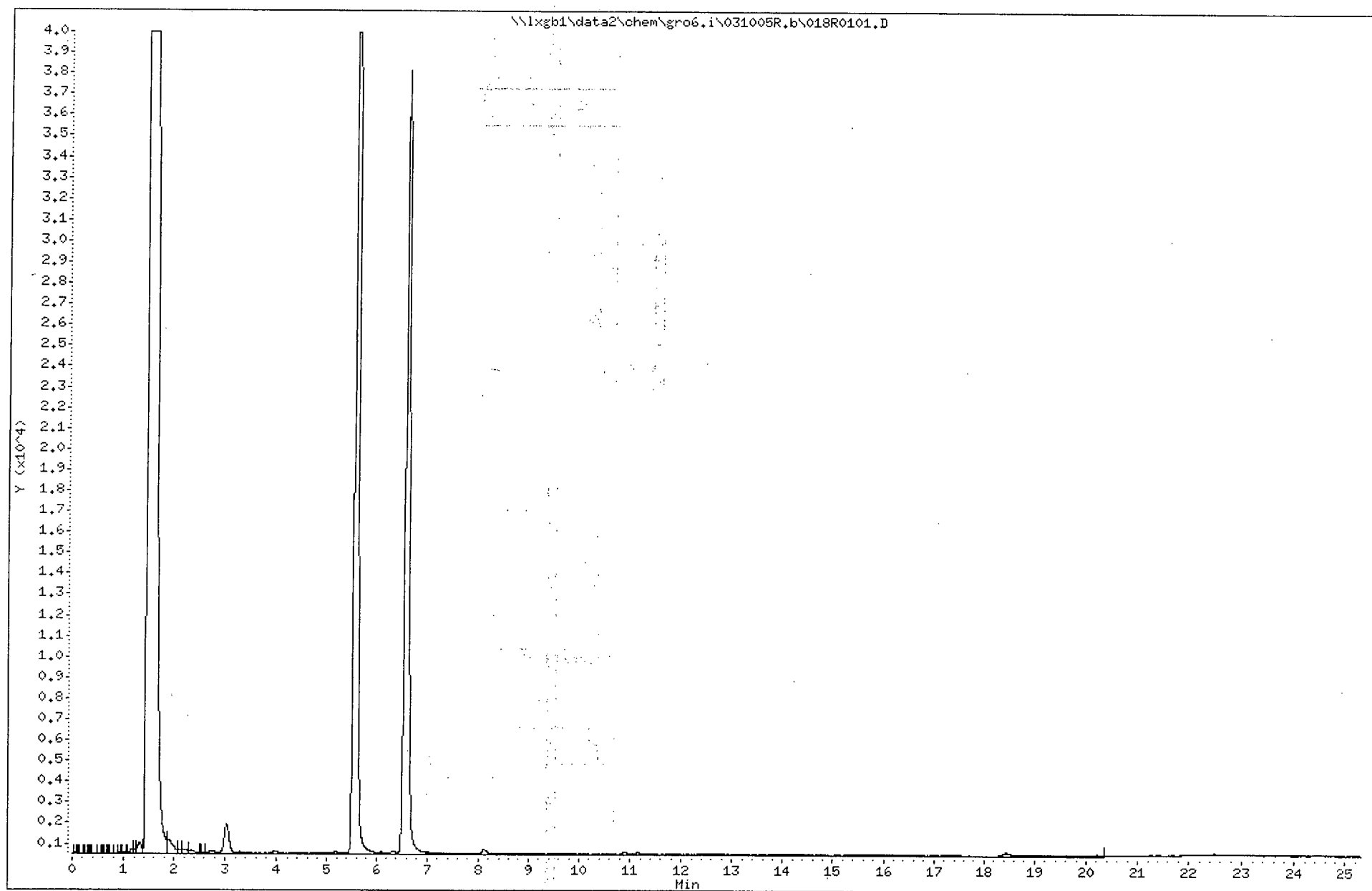
Purge Volume: 5.0

Column phase: DB-624

Instrument: gro6.i

Operator: SES

Column diameter: 0.53



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BLKM 1607-10

Lab Name: ENCHEM, A DIVISION OF PAC Contract:

Lab Code: ENCHEMGB Case No.: SAS No.: SDG No.: GRO7-031005

Matrix: (soil/water) SOIL Lab Sample ID: BLKM 1607-10

Sample wt/vol: 10.0 (g/mL) G Lab File ID: 002F0101

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/10/05

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: 10 (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	25.00	U
-----Total Xylenes	75.00	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VOG1602-87MB

Lab Name: ENCHEM-DIVISION OF PACE A
Lab Code: ENCHEMGB
Matrix: (soil/water) WATER
Sample wt/vol: 5.000 (g/mL) ML
Level: (low/med) LOW
% Moisture: not dec.
GC Column: DB-624 ID: 0.18 (mm)
Soil Extract Volume: (uL)

Contract:
SDG No.: MS503102005A
Lab Sample ID: VOG1602-87MB
Lab File ID: 03100530
Date Received:
Date Analyzed: 03/10/05
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-83-9	DICHLORODIFLUOROMETHANE	1.00	U
74-87-3	CHLOROMETHANE	1.00	U
75-01-4	VINYL CHLORIDE	1.00	U
74-83-9	BROMOMETHANE	1.00	U
75-00-3	CHLOROETHANE	1.00	U
75-43-4	DICHLOROFLUOROMETHANE	1.00	U
75-69-4	TRICHLOROFLUOROMETHANE	1.00	U
60-29-7	DIETHYL ETHER	1.00	U
75-35-4	1 1-DICHLOROETHENE	1.00	U
76-13-1	1 1 2-TRICHLOROTRIFLUOROETHA	1.00	U
67-64-1	ACETONE	1.00	U
107-05-1	ALLYL CHLORIDE	1.00	U
75-09-2	METHYLENE CHLORIDE	1.00	U
156-60-5	TRANS-1 2-DICHLOROETHENE	1.00	U
1634-04-4	METHYL T-BUTYL ETHER	1.00	U
75-34-3	1 1-DICHLOROETHANE	1.00	U
590-20-7	2 2-DICHLOROPROPANE	1.00	U
156-59-2	CIS-1 2-DICHLOROETHENE	1.00	U
78-93-3	2-BUTANONE	1.00	U
74-97-5	BROMOCHLOROMETHANE	1.00	U
109-99-9	TETRAHYDROFURAN	1.00	U
67-66-3	CHLOROFORM	1.00	U
71-55-6	1 1 1-TRICHLOROETHANE	1.00	U
56-23-5	CARBON TETRACHLORIDE	1.00	U
563-58-6	1 1-DICHLOROPROPENE	1.00	U
71-43-2	BENZENE	1.00	U
107-06-2	1 2-DICHLOROETHANE	1.00	U
79-01-6	TRICHLOROETHENE	1.00	U
78-87-5	1 2-DICHLOROPROPANE	1.00	U
74-95-3	DIBROMOMETHANE	1.00	U
75-27-4	BROMODICHLOROMETHANE	1.00	U
10061-01-5	CIS-1 3-DICHLOROPROPENE	1.00	U
108-10-1	4-METHYL-2-PENTANONE	1.00	U
108-88-3	TOLUENE	1.00	U
10061-02-6	TRANS-1 3-DICHLOROPROPENE	1.00	U
79-00-5	1 1 2-TRICHLOROETHANE	1.00	U
127-18-4	TETRACHLOROETHENE	1.00	U
142-28-9	1 3-DICHLOROPROPANE	1.00	U
124-48-1	DIBROMOCHLOROMETHANE	1.00	U
106-93-4	1 2-DIBROMOETHANE	1.00	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VOG1602-87MB

Lab Name: ENCHEM-DIVISION OF PACE A
Lab Code: ENCHEMGB
Matrix: (soil/water) WATER
Sample wt/vol: 5.000 (g/mL) ML
Level: (low/med) LOW
% Moisture: not dec.
GC Column: DB-624 ID: 0.18 (mm)
Soil Extract Volume: (uL)

Contract:
SDG No.: MS503102005A
Lab Sample ID: VOG1602-87MB
Lab File ID: 03100530
Date Received:
Date Analyzed: 03/10/05
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	CHLOROBENZENE	1.00	U
630-26-6	1 1 1 2-TETRACHLOROETHANE	1.00	U
100-41-4	ETHYL BENZENE	1.00	U
108-38-3	M- P-XYLENE	2.00	U
95-47-6	O-XYLENE	1.00	U
100-42-5	STYRENE	1.00	U
75-25-2	BROMOFORM	1.00	U
98-82-8	ISOPROPYLBENZENE	1.00	U
108-86-1	BROMOBENZENE	1.00	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	1.00	U
96-18-4	1 2 3-TRICHLOROPROPANE	1.00	U
103-65-1	N-PROPYLBENZENE	1.00	U
95-49-8	2-CHLOROTOLUENE	1.00	U
106-43-4	4-CHLOROTOLUENE	1.00	U
108-67-8	1 3 5-TRIMETHYLBENZENE	1.00	U
98-06-6	TERT-BUTYLBENZENE	1.00	U
95-63-6	1 2 4-TRIMETHYLBENZENE	1.00	U
135-98-8	SEC-BUTYLBENZENE	1.00	U
541-73-1	1 3-DICHLOROBENZENE	1.00	U
99-878-6	P-ISOPROPYLTOLUENE (CYMENE)	1.00	U
106-46-7	1 4-DICHLOROBENZENE	1.00	U
95-50-1	1 2-DICHLOROBENZENE	1.00	U
104-51-8	N-BUTYLBENZENE	1.00	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	1.00	U
95-63-6	1 2 4-TRICHLOROBENZENE	1.00	U
87-68-3	HEXACHLOROBUTADIENE	1.00	U
91-20-3	NAPHTHALENE	1.00	U
96-18-4	1 2 3-TRICHLOROBENZENE	1.00	U

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENCHEM-DIVISION OF PACE A Contract:
Lab Code: ENCHEMGB Case No.: SAS No.: SDG No.: MS503102005A
MS Sample No.: 855986-071

Batch QC

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT (ug/L)	MS AMOUNT (ug/L)	MS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
CHLOROMETHANE	50.00	0.00	53.34	107	39-138
VINYL CHLORIDE	50.00	0.00	52.06	104	62-137
BROMOMETHANE	50.00	0.00	51.61	103	57-135
CHLOROETHANE	50.00	0.00	53.92	108	71-127
1 1-DICHLOROETHENE	50.00	0.00	51.68	103	83-125
ACETONE	50.00	0.00	46.84	94	38-139
CARBON DISULFIDE	50.00	0.00	43.10	86	77-128
METHYLENE CHLORIDE	50.00	0.00	51.55	103	70-130
TRANS-1 2-DICHLOROETHEN	50.00	0.00	52.22	104	70-130
1 1-DICHLOROETHANE	50.00	0.00	55.30	111	82-121
CIS-1 2-DICHLOROETHENE	50.00	0.00	52.23	104	70-130
2-BUTANONE	50.00	0.00	46.28	92	42-156
CHLOROFORM	50.00	0.00	52.03	104	70-130
1 1 1-TRICHLOROETHANE	50.00	0.00	49.32	99	87-127
CARBON TETRACHLORIDE	50.00	0.00	49.10	98	84-132
BENZENE	50.00	0.00	52.77	106	70-130
1 2-DICHLOROETHANE	50.00	0.00	50.49	101	70-130
TRICHLOROETHENE	50.00	0.00	52.22	104	70-130
1 2-DICHLOROPROPANE	50.00	0.00	49.49	99	70-130
BROMODICHLOROMETHANE	50.00	0.00	46.62	93	70-130
CIS-1 3-DICHLOROPROPENE	50.00	0.00	42.79	86	70-119
4-METHYL-2-PENTANONE	50.00	0.00	46.11	92	66-122
TOLUENE	50.00	0.00	50.19	100	70-130
TRANS-1 3-DICHLOROPROPE	50.00	0.00	39.80	80	70-130
1 1 2-TRICHLOROETHANE	50.00	0.00	47.66	95	70-130
TETRACHLOROETHENE	50.00	0.00	46.72	93	88-121
2-HEXANONE	50.00	0.00	39.82	80	32-174
DIBROMOCHLOROMETHANE	50.00	0.00	44.10	88	79-119
CHLOROBENZENE	50.00	0.00	49.19	98	70-130
ETHYL BENZENE	50.00	0.00	49.33	99	70-130
M- P-XYLENE	100.00	0.00	97.76	98	70-130
O-XYLENE	50.00	0.00	48.62	97	70-130
STYRENE	50.00	0.00	36.06	72	70-130
BROMOFORM	50.00	0.00	38.27	76	66-124
1 1 2 2-TETRACHLOROETHA	50.00	0.00	47.60	95	70-130
TOTAL 1 2-DICHLOROETHEN	100.00	0.00	104.45	104	70-130
TOTAL XYLENES	150.00	0.00	146.39	98	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENCHEM-DIVISION OF PACE A Contract:
 Lab Code: ENCHEMGB Case No.: SAS No.: SDG No.: MS503102005A
 MS Sample No.: 855986-071

COMPOUND	SPIKE ADDED (ug/L)	MSD AMOUNT (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
CHLOROMETHANE	50.00	52.99	106	1	21	39-138
VINYL CHLORIDE	50.00	51.95	104	0	30	62-137
BROMOMETHANE	50.00	52.11	104	1	23	57-135
CHLOROETHANE	50.00	54.60	109	1	30	71-127
1 1-DICHLOROETHENE	50.00	52.08	104	1	20	83-125
ACETONE	50.00	49.04	98	4	30	38-139
CARBON DISULFIDE	50.00	36.82	74*	15	38	77-128
METHYLENE CHLORIDE	50.00	51.29	102	1	30	70-130
TRANS-1 2-DICHLOROETHEN	50.00	52.51	105	1	30	70-130
1 1-DICHLOROETHANE	50.00	57.21	114	3	20	82-121
CIS-1 2-DICHLOROETHENE	50.00	52.72	105	1	30	70-130
2-BUTANONE	50.00	47.54	95	3	30	42-156
CHLOROFORM	50.00	52.60	105	1	30	70-130
1 1 1-TRICHLOROETHANE	50.00	49.87	100	1	20	87-127
CARBON TETRACHLORIDE	50.00	47.96	96	2	30	84-132
BENZENE	50.00	53.29	106	0	30	70-130
1 2-DICHLOROETHANE	50.00	50.43	101	0	30	70-130
TRICHLOROETHENE	50.00	51.10	102	2	30	70-130
1 2-DICHLOROPROPANE	50.00	49.51	99	0	30	70-130
BROMODICHLOROMETHANE	50.00	45.89	92	1	30	70-130
CIS-1 3-DICHLOROPROPENE	50.00	41.81	84	2	20	70-119
4-METHYL-2-PENTANONE	50.00	45.90	92	0	25	66-122
TOLUENE	50.00	50.85	102	2	30	70-130
TRANS-1 3-DICHLOROPROPE	50.00	40.00	80	0	30	70-130
1 1 2-TRICHLOROETHANE	50.00	49.02	98	3	30	70-130
TETRACHLOROETHENE	50.00	47.30	95	2	13	88-121
2-HEXANONE	50.00	43.40	87	8	43	32-174
DIBROMOCHLOROMETHANE	50.00	43.57	87	1	20	79-119
CHLOROBENZENE	50.00	49.44	99	1	30	70-130
ETHYL BENZENE	50.00	49.78	100	1	30	70-130
M- P-XYLENE	100.00	99.95	100	2	30	70-130
O-XYLENE	50.00	49.47	99	2	30	70-130
STYRENE	50.00	39.31	79	9	30	70-130
BROMOFORM	50.00	37.34	75	1	30	66-124
1 1 2 2-TETRACHLOROETHA	50.00	48.21	96	1	30	70-130
TOTAL 1 2-DICHLOROETHEN	100.00	105.23	105	1	30	70-130
TOTAL XYLENES	150.00	149.43	100	2	30	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 37 outside limits

Spike Recovery: 1 out of 74 outside limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: ENCHEM-DIVISION OF PACE A Contract:
Lab Code: ENCHEMGB Case No.: SAS No.: SDG No.: MS503102005A
MS Sample No.: VOG1602-87MB

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT (ug/L)	LCS AMOUNT (ug/L)	LCS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
CHLOROMETHANE	50.00	0.00	52.93	106	48-134
VINYL CHLORIDE	50.00	0.00	51.02	102	61-134
BROMOMETHANE	50.00	0.00	47.15	94	53-137
CHLOROETHANE	50.00	0.00	52.48	105	73-127
1 1-DICHLOROETHENE	50.00	0.00	50.26	100	75-127
ACETONE	50.00	0.00	81.91	164*	42-125
CARBON DISULFIDE	50.00	0.00	48.12	96	75-130
METHYLENE CHLORIDE	50.00	0.00	49.69	99	75-125
TRANS-1 2-DICHLOROETHEN	50.00	0.00	50.86	102	75-125
1 1-DICHLOROETHANE	50.00	0.00	56.48	113	75-125
CIS-1 2-DICHLOROETHENE	50.00	0.00	50.96	102	75-125
2-BUTANONE	50.00	0.00	60.81	122	59-125
CHLOROFORM	50.00	0.00	50.24	100	75-125
1 1 1-TRICHLOROETHANE	50.00	0.00	47.82	96	75-125
CARBON TETRACHLORIDE	50.00	0.00	47.91	96	75-128
BENZENE	50.00	0.00	51.70	103	75-125
1 2-DICHLOROETHANE	50.00	0.00	48.75	98	75-125
TRICHLOROETHENE	50.00	0.00	49.50	99	75-125
1 2-DICHLOROPROPANE	50.00	0.00	47.11	94	75-125
BROMODICHLOROMETHANE	50.00	0.00	45.07	90	75-125
CIS-1 3-DICHLOROPROPENE	50.00	0.00	41.48	83	75-125
4-METHYL-2-PENTANONE	50.00	0.00	44.75	90	69-125
TOLUENE	50.00	0.00	48.93	98	75-125
TRANS-1 3-DICHLOROPROPE	50.00	0.00	38.39	77	75-125
1 1 2-TRICHLOROETHANE	50.00	0.00	46.70	93	75-125
TETRACHLOROETHENE	50.00	0.00	46.01	92	75-125
2-HEXANONE	50.00	0.00	48.90	98	60-125
DIBROMOCHLOROMETHANE	50.00	0.00	42.65	85	75-125
CHLOROBENZENE	50.00	0.00	47.67	95	75-125
ETHYL BENZENE	50.00	0.00	48.29	96	75-125
M- P-XYLENE	100.00	0.00	97.64	98	75-125
O-XYLENE	50.00	0.00	47.78	96	75-125
STYRENE	50.00	0.00	40.00	80	75-125
BROMOFORM	50.00	0.00	38.21	76	66-125
1 1 2 2-TETRACHLOROETHA	50.00	0.00	46.32	93	74-125
TOTAL 1 2-DICHLOROETHEN	100.00	0.00	101.83	102	75-125
TOTAL XYLENES	150.00	0.00	145.43	97	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: ENCHEM-DIVISION OF PACE A Contract:
Lab Code: ENCHEMGB Case No.: SAS No.: SDG No.: MS503102005A
MS Sample No.: VOG1602-87MB

COMPOUND	SPIKE ADDED (ug/L)	LCSD AMOUNT (ug/L)	LCSD % REC #	% RPD #	QC LIMITS	
=====	=====	=====	=====	=====	RPD	REC.
CHLOROMETHANE	50.00	52.46	105	1	20	48-134
VINYL CHLORIDE	50.00	52.53	105	3	20	61-134
BROMOMETHANE	50.00	50.14	100	6	20	53-137
CHLOROETHANE	50.00	54.38	109	4	20	73-127
1 1-DICHLOROETHENE	50.00	52.21	104	4	20	75-127
ACETONE	50.00	59.93	120	31	33	42-125
CARBON DISULFIDE	50.00	49.75	100	4	20	75-130
METHYLENE CHLORIDE	50.00	51.31	103	4	20	75-125
TRANS-1 2-DICHLOROETHEN	50.00	51.39	103	1	20	75-125
1 1-DICHLOROETHANE	50.00	58.08	116	3	20	75-125
CIS-1 2-DICHLOROETHENE	50.00	52.06	104	2	20	75-125
2-BUTANONE	50.00	51.64	103	17	27	59-125
CHLOROFORM	50.00	52.27	104	4	20	75-125
1 1 1-TRICHLOROETHANE	50.00	49.15	98	2	20	75-125
CARBON TETRACHLORIDE	50.00	49.41	99	3	20	75-128
BENZENE	50.00	52.98	106	3	20	75-125
1 2-DICHLOROETHANE	50.00	50.06	100	2	20	75-125
TRICHLOROETHENE	50.00	51.39	103	4	20	75-125
1 2-DICHLOROPROPANE	50.00	48.90	98	4	20	75-125
BROMODICHLOROMETHANE	50.00	46.00	92	2	20	75-125
CIS-1 3-DICHLOROPROPENE	50.00	41.96	84	1	20	75-125
4-METHYL-2-PENTANONE	50.00	43.73	87	3	20	69-125
TOLUENE	50.00	51.29	102	4	20	75-125
TRANS-1 3-DICHLOROPROPE	50.00	40.63	81	5	20	75-125
1 1 2-TRICHLOROETHANE	50.00	48.73	97	4	20	75-125
TETRACHLOROETHENE	50.00	48.71	97	5	20	75-125
2-HEXANONE	50.00	44.13	88	11	20	60-125
DIBROMOCHLOROMETHANE	50.00	45.17	90	6	20	75-125
CHLOROBENZENE	50.00	50.04	100	5	20	75-125
ETHYL BENZENE	50.00	50.68	101	5	20	75-125
M- P-XYLENE	100.00	101.43	101	3	20	75-125
O-XYLENE	50.00	49.99	100	4	20	75-125
STYRENE	50.00	41.92	84	5	20	75-125
BROMOFORM	50.00	39.71	79	4	20	66-125
1 1 2 2-TETRACHLOROETHA	50.00	46.79	94	1	20	74-125
TOTAL 1 2-DICHLOROETHEN	100.00	103.45	103	1	20	75-125
TOTAL XYLENES	150.00	151.43	101	4	20	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 37 outside limits

Spike Recovery: 1 out of 74 outside limits

COMMENTS:

Effective Date: July 14,2002

Surrogates
En Chem - Green Bay

Revised: 8/17/2004

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

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

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

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

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

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

	Aqueous		Solids	
TPH Gas	LCL	UCL	LCL	UCL
α,α,α -Trifluorotoluene	80	124	69	146

Batch No. 856920

En Chem, Inc. Cooler Receipt Log

Project Name or ID CJS No. of Coolers: 1 Temps: 10CA. Receipt Phase: Date cooler was opened: 3-9-05 By: 8 Falen

- 1: Were samples received on ice? (Must be $\leq 6^{\circ}\text{C}$)..... ☒ YES NO² NA
- 2: Was there a Temperature Blank?..... ☒ YES NO
- 3: Were custody seals present and intact on cooler? (Record on COC)..... YES ☒ NO
- 4: COC documents present?..... ☒ YES NO²
- 5: Does this Project require quick turn around analysis?..... YES ☒ NO
- 6: Were there any sub work?..... YES ☒ NO
- 7: Were there any significant hold time tests?..... ☒ YES NO
- 8: Were there any samples nearing expiration of hold-time? (Within 2 days)..... YES¹ ☒ NO Contacted by/Who _____
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES¹ ☒ NO Contacted by/Who _____

B. Check-in Phase: Date samples were Checked-in: 3-9-05 By: 8 Falen

- 1: Were all sample containers listed on the COC received and intact?..... ☒ YES NO² NA
- 2: Sign the COC as received by En Chem. Completed..... ☒ YES NO
- 3: Do sample labels match the COC?..... ☒ YES NO²
- 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 NO² NA
(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)
- 6: Are dissolved parameters field filtered?..... YES NO² ☒ NA
- 7: Are sample volumes adequate for tests requested?..... ☒ YES NO²
- 8: Are VOC samples free of bubbles >6mm..... ☒ YES NO² 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. MRK ☒ 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 803/11/05

(Please Print Legibly)

Company Name:

Millsop Assoc

Branch or Location:

Project Contact:

Mark

Telephone:

218-763-2907

Project Number:

Project Name:

CJG

Project State:

MN

Sampled By (Print):

Mark Millsop

PO #:

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

GW=Ground Water
W=Water
S=Soil
A=Air
C=Charcoal
B=Biota
Sl=Sludge
WP=Wipe

A Division of Pace Analytical Services, Inc.

CHAIN OF CUSTODY

No.131540

*Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other
 FILTERED? (YES/NO) N N N N N N N N
 PRESERVATION (CODE) A/B E A B B

ANALYSES REQUESTED
 DRO
 GRO/BTEX/WMBE
 Dry wt
 VOCs
 GRO

TOTAL # OF BOTTLES SENT

Page

of

Quote #:

Mail Report To:

Millsop

Company:

Address:

Invoice To:

Company:

Address:

Mail Invoice To:

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX	CLIENT COMMENTS										LAB COMMENTS (Lab Use Only)
		DATE	TIME												
	Temp Blank	3/8	am	W											
001	Trip Blank			M		X									
002	Trip Blank			W				X							
003	B-1, 20'			S	X	X	X								
004	B-1			W	X			X	X						
005	B-2, 20'			S	X	X	X								
006	B-2			W	X			X	X						
007	B-3, 20'		pm	S	X	X	X								
008	B-3		pm	W	X			X	X						
009	B-4		am	W	X			X	X						
# J165 913435 2															

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:

Mark D. Millsop

Date/Time:

3/8/05

Relinquished By:

UPS 3-9-05 1020

Date/Time:

Relinquished By:

Date/Time:

Relinquished By:

Date/Time:

Relinquished By:

Date/Time:

Received By:

Mark 3-9-05 1020

Date/Time:

Received By:

Mark 3-9-05 1020

Date/Time:

Received By:

Date/Time:

Received By:

Date/Time:

Received By:

Date/Time:

En Chem Project No.

856920

Sample Receipt Temp.

10C

Sample Receipt pH

(Not/Notable) N/A

Cooler Custody Seal

Present / Not Present

Intact / Not intact

Version 4.0: 09/04