



January 7, 2003

Project No. 80026.02

Mr. David Israel
Environmental Specialist
Bureau of Underground Storage Tank Regulations
Division of State Fire Marshal
8895 East Main Street
PO Box 687
Reynoldsburg, OH 43068

**Remedial Action Plan
Sears Unit 1310
300 Midway Boulevard
Elyria, Ohio
Incident No. 4732300-00
Release No. 47000451-N00001**

Dear Mr. Israel:

On behalf of Sears, Roebuck and Co. (Sears), Watterson Environmental Group, LLC is submitting the Remedial Action Plan for the above-referenced facility.

If you have any questions regarding this report, or any of the information regarding this site, please do not hesitate to contact Mr. David Dukat at (419) 824 - 5210.

Sincerely,

Watterson Environmental Group, LLC

David A. Dukat, PG
Senior Geologist

cc: Scott DeMuth – Sears, Roebuck and Co., Department 768EV, A2-245A, 3333 Beverly Road,
Hoffman Estates, Illinois 60179

P:\Clients\Sears\UST\Misc\8002602 Unit 1310 Elyria OH BUSTR Cover Ltr.doc

Remedial Action Plan (RAP) Checklist and Recommended Table of Contents (Page 1 of 2)

Owner/Operator Information	Facility Information
Date: January 8, 2003	Facility: Sears Unit 1310
Owner/Operator: Sears, Roebuck and Co.	Address: 300 Midway Boulevard
Address: 3333 Beverly Road, Dept. 768EV, A2-245A	Elyria, Ohio
Hoffman Estates, Illinois 60179	County: Lorain
Phone #: (847) 286-5530	Incident #: 4732300-00

Check	Page #	Each Remedial Action Plan (RAP) must include the following:
		A. Each Remedial Action Plan report must include, at a minimum, the following:
✓	Pg 1-3	1. A summary of the site assessment results and conclusions.
✓	Table 2.0	2. If applicable, a table with a complete round of ground-water sampling results obtained within six months prior to submitting the plan.
✓	Pg 6-7	3. A description of remedial alternatives considered.
✓	Pg 6-7	4. A brief comparison of reliability, feasibility, effectiveness, cost and time needed for completion of the recommended program and for the identified alternatives.
✓	Pg 7	5. A description of the remediation techniques to be implemented.
N/A		6. A description and results of any pilot studies conducted.
N/A		7. A schematic drawing of the remedial system.
N/A		8. A diagram that accurately depicts the placement of the remedial system on site, including proposed locations of equipment, pumps, recovery systems, etc.
✓	Pg 8	9. A description of permits or other approvals required for implementation of the plan.
✓	Pg 7	10. Proposed target levels to be achieved.
✓	Pg 7	11. A description of a monitoring/sampling plan to be used during the implementation of the RAP, including a site diagram that indicates the locations where soil and/or ground water will be sampled.
✓	Pg 7	12. An implementation schedule and the projected completion date.
N/A		13. A description of the content and frequency of progress reports (i.e., monthly or quarterly).
		B. Upon RAP approval by the SFM and implementation, progress reports must be submitted regularly which include:
		1. A status report of the system's performance.
		2. A site diagram, if the placement of the remedial system is altered from that submitted in the RAP.
		3. Air, soil and/or water monitoring analysis submitted in table format.
		4. Monthly/quarterly quantity and disposition of soil treated and/or removed.
		5. Monthly/quarterly quantity and disposition of water treated and/or discharged.
		6. Depth to liquid and thickness of free product (if applicable).
		7. Quantity and disposition of free product recovered (if applicable).
		8. Sampling methodology as outlined in Appendix A.
		9. Any other additional information necessary to evaluate the effectiveness of the RAP.

Remedial Action Plan (RAP) Checklist and Recommended Table of Contents (Page 2 of 2)

Check	Page #	Each Remedial Action Plan (RAP) must include the following:
		C. Once MCL target or action levels have been attained and remediation completed, a completion report must be submitted to the SFM which includes at a minimum:
		1. A summary of all remedial activities.
		2. Tabled or graphical results showing the effectiveness of the RAP over time.
		3. A table with a complete round of recent ground water and soil sampling in appropriate locations demonstrating that acceptable levels have been attained.
		4. A complete site map showing all sampling locations.
		5. A discussion of wastes generated during all remedial activities including cumulative totals and final disposition.
		6. Other information which demonstrates that the remedial objectives of the RAP have been met.
		D. If monitoring only is selected as a remedial option, the same sequence of reports above should be submitted with remedial systems, RAP or techniques replaced by monitoring plans or options, whichever is more appropriate.

Preparer Name	Preparer Signature	Date
David A. Dukat, PG		January 8, 2003
Owner/Operator ⁷ Name	Owner/Operator Signature	Date
		1/16/03

⁷ Circle whichever applies

**REMEDIAL ACTION PLAN
SEARS UNIT 1310
300 MIDWAY BOULEVARD
ELYRIA, OHIO
INCIDENT NO. 4732300-00
RELEASE NO. 47000451-N00001**

PREPARED FOR:

**SEARS, ROEBUCK AND CO.
3333 BEVERLY ROAD
DEPARTMENT 768EV, A2-245A
HOFFMAN ESTATES, ILLINOIS 60179**

PREPARED BY:

**WATTERSON ENVIRONMENTAL GROUP, LLC
3450 WEST CENTRAL AVENUE
SUITE 330
TOLEDO, OHIO 43606
(419) 535 - 6125
FAX: (419) 535 - 6285**

**JANUARY 8, 2003
PROJECT NO. 8002602**



January 8, 2003

Project No. 80026.02

Mr. Scott DeMuth
Sears, Roebuck and Co.
3333 Beverly Road
Department 768EV, A2-245A
Hoffman Estates, Illinois 60179

**Remedial Action Plan
Sears Unit 1310
300 Midway Boulevard
Elyria, Ohio
Incident No. 4732300-00
Release No. 47000451-N00001**

Dear Mr. DeMuth:

The Remedial Action Plan (RAP) developed at the request of the Bureau of Underground Storage Tank Regulations (BUSTR) for Sears, Roebuck and Co. (Sears) by Watterson Environmental Group, LLC for the above-referenced site is enclosed. This assessment was authorized by Sears acceptance of the Environmental Work Order (Project No. 80026.02) and was performed in general conformance with the Environmental Services Agreement between Sears and Watterson Environmental Group dated December 6, 2001.

We appreciate the opportunity to provide environmental consulting services to Sears. If you should have any questions or need further assistance, please contact us at (419) 824-5210.

Sincerely,

WATTERSON ENVIRONMENTAL GROUP, LLC

A handwritten signature in blue ink, appearing to read "FMK", is written over the name Frank M. Kozak.

Frank M. Kozak, CPG
Senior Consultant

A handwritten signature in blue ink, appearing to read "D. A. Dukat", is written over the name David A. Dukat.

David A. Dukat, PG
Senior Geologist

P:\Clients\Sears\UST\Reports\8002602 RAP Elyria OH.doc

CONTENTS

1.0	Introduction	1
1.1	Introduction.....	1
1.2	Background	1
1.3	IT Corporation's January 22, 2002 Letter Report.....	2
1.4	BUSTR Correspondence.....	3
1.5	Additional Borings performed by Watterson Environmental Group.....	3
1.6	Site Features Scoring System.....	5
2.0	Data Summary.....	4
2.1	Soil Plume Definition	4
2.2	Groundwater Plume Definition.....	4
3.0	Remedial Action Plan	5
3.1	Technology Comparison	5
3.2	Proposed Excavation Activities	6
3.3	Monitoring	7
3.4	Permitting.....	7
3.5	Closure Determination	7

TABLES

Table 1.0	Summary of Soil Analytical Results
Table 2.0	Groundwater Analytical Results

FIGURES

Figure 1.0	Site Location Map
Figure 2.0	Soil Boring Location Plan
Figure 3.0	Soil Sample Analytical Results
Figure 4.0	Groundwater Analytical Results
Figure 5.0	Summary of Soil Analytical Results
Figure 6.0	Proposed Excavation Area

APPENDICES

Appendix A	IT Corporation's January 22, 2002 Letter Report
Appendix B	Soil Boring Logs
Appendix C	Laboratory Analytical Report

1.0 INTRODUCTION

1.1 Introduction

The site is a Sears Auto Center (Unit No. 1310) that is associated with the Midway Mall and is located at 300 Midway Boulevard in Elyria, Ohio (Figure 1.0). The Remedial Action Plan (RAP) was prepared in response to the April 8, 2002 letter from the Bureau of Underground Storage Tank Regulations (BUSTR) to Sears, which indicated that a RAP should be completed for the site that incorporated the data contained in IT Corporation's (IT) letter report dated January 22, 2002 and two additional borings performed by Watterson Environmental Group as requested by BUSTR in the April 8, 2002 letter. Sears originally initiated site assessment activities because of a confirmed release at the site detected during the underground storage tank (UST) removal activities (Release No. 47000451-N00001, Incident No. 4732300-00) in January of 1994.

1.2 Background

During the removal of a 500-gallon used oil underground storage tank (UST) in January 1994, one soil sample collected from the north wall of the UST excavation exhibited a Total Petroleum Hydrocarbon (TPH) concentration of 1,200 parts per million (ppm). This concentration exceeded the category 3 action level of 904 ppm. Based on this, a Site Assessment was completed by Groundwater Technology, Inc. (GTI) on November 30, 1994.

During the Site Assessment, GTI performed four Geoprobe soil borings and three hollow-stem auger soil borings. The Geoprobe borings were advanced to 20 feet and the hollow-stem auger borings were advanced to 16 feet below surface grade (bgs). Groundwater was not encountered in any of the borings performed by GTI. Soil samples collected from each boring were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by United States Environmental Protection Agency (U.S. EPA) Method 8240 and for total petroleum hydrocarbons (TPH) by U.S. EPA Method 418.1. Analytical results did not indicate the presence of BTEX or TPH in any of the soil samples collected exceeding the BUSTR Category 3 Action Levels.

IT Corporation (IT) reportedly contacted BUSTR in September/October 2001 to determine the status of the Site Assessment report. During this conversation with Mr. Dave Biskner of BUSTR, it was suggested that additional borings be performed in the vicinity of the North Wall sample where concentrations of TPH exceeded the BUSTR Category 3 Action Level. The findings of these soil borings was documented in a January 22, 2002 report that was submitted to BUSTR.

1.3 IT Corporation's January 22, 2002 Letter Report

As noted above, IT performed additional assessment at the site to evaluate the conditions in the vicinity of the North Wall sample that was collected during the UST removal activities. The purpose of this sampling was to identify current concentrations, and to evaluate the potential need for remedial actions at the site.

Additional borings were performed at the site by IT in October 2001. Five soil borings were

advanced utilizing Geoprobe methodology to a depth of approximately 10 feet bgs. Groundwater was not encountered in any of the borings performed by IT. One soil sample was collected from each boring. The soil samples collected were analyzed for BTEX by U.S. EPA Method 8020 and for TPH by U.S. EPA Method 418.1.

Benzene, toluene, and ethylbenzene were not detected in any of the soil samples collected by IT. Toluene was detected in one sample collected from approximately eight to 10 feet bgs from boring SB-6 at a concentration of 0.0034 ppm. TPH was detected in four of the five soil samples collected at concentrations ranging from 8.79 ppm to 44.7 ppm. The concentrations of toluene and TPH detected in these soil samples did not exceed their respected BUSTR Category 3 Action Levels.

Based on their findings and the lack of groundwater, IT recommended that the site be granted "No Further Action" status. A copy of IT's report has been included in Appendix A for reference.

1.4 BUSTR Correspondence

IT's report dated January 22, 2002 was mailed to BUSTR at approximately the same time that BUSTR mailed a letter to Sears (Dated January 16, 2002). BUSTR's January 16, 2002 letter indicated that the impacts at the site were delineated based on Site Assessment prepared by GTI, and that a RAP should be prepared to address the identified impacts at the site.

On April 8, 2002, Mr. David Dukat of Watterson Environmental Group spoke with Ms. Peggy Smith of BUSTR regarding the status of the site since the information submitted to IT and the letter from BUSTR appeared to have crossed paths in the mail. Based on the information contained within the January 22, 2002 IT report, Ms. Smith indicated that it appeared the impacts were below the applicable Category 3 Action Levels; however, the borings performed by IT did not meet the requirements of the 1992 BUSTR regulations (groundwater, 45 feet bgs, or hollow-stem auger refusal on bedrock). Therefore, Ms. Smith requested that two additional borings be performed using hollow-stem auger drilling in the approximate locations of borings SB-6 and SB-7, where the highest (though below BUSTR Category 3 Action Levels) TPH concentrations were found in the previous assessments performed.

BUSTR's April 8, 2002 letter indicated that these two additional borings, along with IT's January 22, 2002 report, should be utilized in the completion of a RAP for the site.

1.5 Additional Borings Performed by Watterson Environmental Group

From June 20 to 22, 2002, two hollow-stem auger borings were advanced at the site. Soil boring SB-10 was located in the vicinity of the former north wall of the cavity and the previous boring SB-5. SB-11 was located to the northwest of the former cavity, in the vicinity of the previous boring SB-6. Refer to Figure 2.0 for the approximate location of these soil borings.

The borings were advanced by Belasco Drilling Services utilizing a hollow-stem auger drilling rig. The down hole equipment was steam cleaned prior to the start of drilling activities to mitigate the possibility of sample cross contamination. Soil cuttings produced during the drilling activities were

contained in one Department of Transportation (DOT)-approved 55-gallon drum, appropriately labeled, and stored on site pending proper off-site disposal as part of Sears drum disposal program.

At each soil boring location, continuous split spoon soil sampling was performed to the maximum depth of the borings. Soil encountered consisted of silt and clay to a depth of approximately 15 to 16 feet bgs. Red shale was encountered at this depth to the bottom of the borings (26 feet for GP-10 and 27 feet for GP-11), where hollow-stem auger refusal was encountered. Groundwater was encountered within the shale bedrock at a depth of approximately 24 feet bgs. Appendix B contains copies of the boring logs developed during the drilling activities.

Each soil sample collected was split into two components, one for field screening and one for potential laboratory analysis. The soil sample from each soil boring that exhibited the highest PID reading or appeared to be visually impacted was submitted for laboratory analysis to assess soil quality. Samples for potential laboratory analysis were placed into laboratory-cleaned U.S. EPA Protocol B glass sample containers fitted with Teflon-lined lids. The samples for field screening were placed into re-sealable plastic bags and screened on-site using a photoionization detector (PID) to preliminarily assess the samples for the presence of volatile organic vapors.

The PID screening was conducted following the accumulation of headspace vapors from each sample after it was placed within a re-sealable plastic bag. The PID results ranged from background to 2000 parts per million (ppm), which was measured in SB-10 from ground surface to eight feet below ground surface (bgs). In this interval of SB-10, which was located along the former north wall of the cavity, petroleum odors were also noted. PID values are presented on the soil boring logs in Appendix A. Based on site observations, professional judgment, and the nature of the release at the site, one soil (SB-10; 2' – 4' and SB-11; 8' – 10') sample from each boring was submitted for laboratory analysis. Samples were transported using standard U.S. EPA protocols, specifically chain-of-custody documentation to AAC Trinity, Inc. in Farmington Hills, Michigan.

Monitoring wells MW-1 and MW-2 were completed in borings SB-10 and SB-11, respectively. MW-1 was completed with a screen from 17 to 24 feet bgs, with a quartz sand pack and overlying bentonite seal. MW-2 was similarly completed with a screen from 17 to 25 feet bgs. Both wells were completed at the surface with a flush mounted well cap.

The two soil samples were submitted for laboratory analysis of BTEX using U.S. EPA Method 8260 and for ATPH using U.S. EPA Method 418.1. The concentration of TPH detected in the soil sample collected from SB-10 (2' – 4'), located in the vicinity of the previous boring SB-5 and the north wall of the former cavity, exceeded its BUSTR action level. The concentrations of BTEX in SB-10, and BTEX and TPH in SB-11 did not exceed the BUSTR Category 3 Action Levels. Refer to Table 1.0 and Figure 3.0 for a summary of the soil analytical results. The laboratory report is included in Appendix C.

The two groundwater samples were collected on July 19, 2002, and submitted for laboratory analysis of BTEX using U.S. EPA Method 8260. Concentrations of BTEX were not measured above the laboratory detection limit in either of the two groundwater samples collected. Refer to Table 2.0 and Figure 4.0 for a summary of the groundwater analytical results. The laboratory report is included in Appendix C.

Based on the information obtained as part of these two additional borings performed by Watterson Environmental Group, a limited area of soil with concentrations above the Category 3 Action Levels remains within the top six feet of the soil adjacent to the northern wall of the former used oil UST.

1.6 Site Feature Scoring System

The results of the Site Feature Scoring System (SFSS) evaluations indicate that the site is classified as a Category 3 site. The determination of this classification is discussed in GTI's Site Assessment Report dated November 30, 1994.

2.0 DATA SUMMARY

2.1 Soil Plume Definition

The results of the investigations performed indicate that residual petroleum impacts are limited to depths ranging between the surface and six feet bgs in the area of the northern wall of the former used oil UST cavity and boring SB-10 performed by Watterson Environmental Group. Refer to Table 1.0 and Figure 5.0 for the location of soil borings performed and a summary of the analytical results from the various investigations performed at the site. Soils beneath the site generally consist of silt and clay that extends from beneath the concrete/asphalt to a depth of approximately 15 to 16 feet bgs where shale bedrock is encountered.

2.2 Groundwater Plume Definition

The analytical results of the groundwater samples collected on July 19, 2002 from the two groundwater monitoring wells installed by Watterson Environmental Group did not report concentrations of BTEX above the laboratory analytical detection limits. Based on laboratory analytical results of soil and groundwater samples collected, groundwater beneath the site does not appear to be impacted.

3.0 REMEDIAL ACTION PLAN

3.1 Technology Comparison

Four remedial methods were considered to address the residual soil concentrations at the Sears facility.

Soil vapor extraction (SVE) was considered as a remedial alternative for the site. SVE induces volatilization of contaminants from the soil by maintaining a constant flow of clean air through the contaminated soil. Contaminants, such as BTEX, with a vapor pressure greater than 1 mm mercury can be successfully volatilized. As volatilization is induced, the gas-liquid equilibrium forces the adsorbed-phase hydrocarbons into the gas-phase for subsequent removal by the air stream. SVE expedites remediation at the site by removing subsurface contaminants from the vadose zone that may otherwise begin to leach into the water bearing zone. Additionally, soil vapor extraction provides atmospheric oxygen to the subsurface promoting aerobic biodegradation of the contaminants. Aerobic biodegradation may account for a significant amount of remediation, especially when the contaminants are amenable to this process, as are the BTEX compounds.

SVE was not selected as a remediation alternative for several reasons. Soils exceeding the BUSTR Category 3 action levels for BTEX concentrations are encountered in one location at shallow depths (less than 10 feet below the ground surface). This limited size of impacted soil could not be justified with the expense associated with the installation, operation, and maintenance of this type of remediation system. It customarily takes several months to permit and install a SVE system and a minimum of one year system operation to achieve successful remediation. The estimated costs for the permitting and installation of the SVE system would be in the range of \$50,000 to \$75,000. One year of operation and maintenance of the system would cost approximately \$10,000 to \$12,000 per year and the system would run for a minimum of two years.

Aerobic bioremediation involving the addition of an oxygen-releasing compound in soils impacted with hydrocarbon was considered as another remedial alternative for the site. According to the manufacturer's (Regenesis) description, Oxygen Release Compound, ORC® is a patented formulation of magnesium peroxide that produces a slow and continuous release of molecular oxygen when in contact with soil moisture or groundwater. Naturally occurring microorganisms that aerobically degrade pollutants thrive in the oxygen-enriched environment produced by ORC®. Upon the addition of ORC® in the impacted subsurface environment within the former UST excavation, these microorganisms will rapidly degrade dissolved hydrocarbons into harmless by-products such as carbon dioxide and water. The application of ORC® would be used to accelerate the natural attenuation of pollutants in groundwater and in the vadose zone and the cost associated for one application would range from \$14,000 to \$20,000 including confirmation sampling approximately 6 months after application and reporting. However, because groundwater was not present within the overburden soils (groundwater was identified in the underlying shale bedrock), this remedial method is not considered likely to be successful in a significant reduction in concentrations in the near surface overburden soils.

Another alternative reviewed for this site was the injection of BiOx, a proprietary blend of oxidizing agents that release free radicals that oxidize organic contaminants and provide time-released oxygen to enhance in situ bioremediation. This reagent is injected as a high-pressure fluid jet that liquefies the soil in advance of the probe. This technique promotes limited hydraulic fracturing which allows for the use of this technology in cohesive silt and clay soils. The fluid is injected in low volumes at a large number of points in the contaminated zone, which does not allow for migration of the contaminants during the application. The estimated costs of one application range from \$18,000 to \$23,000 including confirmation sampling approximately 3 months after the application. The injection of BiOx is not a cost effective procedure because several applications could be required to adequately treat the entire extent of the contamination. Also, this method was not chosen because of the limited area of impact and limitations in treating concentrations in cohesive silt and clay soils.

Ex-situ remediation involving the excavation and removal of impacted soils was considered to be the most cost effective and time efficient remediation method because of the limited vertical and horizontal extent of the impacted soils. The proposed excavation area is located in the vicinity of SB-10 and the northern wall of the former used oil UST. The proposed area of excavation is presented on Figure 6.0. Excavation can be performed within one day and would not require future confirmation sampling. The costs of the soil excavation are estimated between \$10,000 and \$20,000. Further details on the proposed excavation are provided in Section 3.2.

3.2 Proposed Excavation Activities

The extent of the excavation is estimated to be approximately 8 feet by 6 feet by 6 feet deep. This area is located at the northern end of the former used oil UST system, in the approximate location of boring SB-10/MW-1. During the excavation activities, monitoring MW-1 will have to be abandoned as it is located within the area of excavation. Approximately 16 cubic yards of soil will be removed during the excavation activities. The use of an onsite mobile laboratory will be utilized to assess the actual extent of the excavation. During the excavation activities, impacted and non-impacted soils will be segregated based on visual observation and the mobile laboratory results. Samples from the walls and base of the excavation, as well as the excavated soils will be analyzed periodically by the mobile laboratory for BTEX by U.S. EPA Method 8020 and TPH by U.S. EPA Method 418.1.

Soil removed from the excavation and stockpiled that is identified to have concentrations below the action levels will be used as backfill material. The remainder of the excavation will be backfilled with imported clean fill material. The surface of the excavation will be restored (primarily concrete, with potentially some asphalt) to match the surrounding area.

A report will be prepared detailing the excavation activities, the sample locations, and analytical results.

3.3 Monitoring

A post remedial monitoring plan will not be required based on the proposed excavation activities and because groundwater was identified not to be impacted. Once “No further action” status is approved, the remaining monitoring well (monitoring well MW-1 will be destroyed during excavation activities) will be abandoned according to Ohio Department of Natural Resources guidelines.

3.4 Permitting

No permits are required for the site based on the proposed remedial action (excavation).

3.5 Closure Determination

As described above, confirmation soil samples will be collected from the final extent of the excavation and submitted analyzed on-site utilizing a mobile laboratory and standard U.S. EPA protocols. Excavation activities will be performed until the soil sampling results indicate that soil concentrations are below the applicable BUSTR Category 3 Action Levels. The results of the soil analyses will be utilized to obtain a “No Further Action” status for the site.

TABLES

Table 1.0
Summary of Soil Analytical Results
Sears Unit 1310
Elyria, Ohio

Sample	Benzene	Toluene	Ethylbenzene	Xylenes	TPH
North Wall - 1994	BDL	BDL	0.39	0.22	1,200
South Wall - 1994	BDL	BDL	BDL	0.0038	350
East Wall - 1994	BDL	BDL	BDL	BDL	130
West Wall - 1994	BDL	BDL	BDL	BDL	240
Bottom UST - 1994	BDL	BDL	BDL	1.3	520
SB-1 (9' - 11') - 1994	BDL	BDL	BDL	BDL	110
SB-1 (18' - 20') - 1994	BDL	BDL	BDL	BDL	BDL
SB-2 (9' - 11') - 1994	BDL	BDL	BDL	BDL	180
SB-3 (9' - 11') - 1994	BDL	BDL	BDL	BDL	180
SB-3 (18' - 20') - 1994	BDL	BDL	BDL	BDL	BDL
SB-4 (9' - 11') - 1994	BDL	BDL	BDL	BDL	210
SB-4 (18' - 20') - 1994	BDL	BDL	BDL	BDL	BDL
SB-5 (8' - 10') - 1994	BDL	BDL	BDL	BDL	190
SB-5 (14' - 16') - 1994	BDL	BDL	BDL	BDL	BDL
SB-6 (6' - 8') - 1994	BDL	0.0053	BDL	BDL	BDL
SB-6 (14' - 16') - 1994	BDL	BDL	BDL	BDL	BDL
SB-7 (2' - 4') - 1994	BDL	0.007	BDL	BDL	70
SB-7 (14' - 16') - 1994	BDL	BDL	BDL	BDL	BDL
SB-5 (4' - 8') - 2001	BDL	BDL	BDL	BDL	13.3
SB-6 (8' - 10') - 2001	BDL	BDL	BDL	0.0034	44.7
SB-7 (2' - 3') - 2001	BDL	BDL	BDL	BDL	8.79
SB-8 (7' - 10') - 2001	BDL	BDL	BDL	BDL	10
SB-9 (4' - 8') - 2001	BDL	BDL	BDL	BDL	BDL
SB-10 (2' - 4') - 2002	BDL	0.070	0.010	0.240	2,100
SB-11 (8' - 10') - 2002	BDL	BDL	BDL	0.010	180
BUSTR Category 3 Action Levels	0.335	9	14	67	904

Notes:

1. Concentrations are in milligrams per kilogram (mg/Kg), which is approximately equal to parts per million (ppm).
2. BTEX – analyzed by U.S. EPA Method 8260.
3. TPH – Total Petroleum Hydrocarbons analyzed by U.S. EPA Method 418.1
4. BDL – Below the Laboratory Detection Limits.
5. Bold indicates concentrations above the laboratory detection limits.
6. Shading indicates concentrations above the BUSTR Category 3 Action Levels.

Table 2.0 Groundwater Analytical Results Sears Unit 1310 Elyria, Ohio			
Analyte	MW-1	MW-2	BUSTR Category 3 Action Levels
Benzene	BDL	BDL	0.005
Toluene	BDL	BDL	1
Ethylbenzene	BDL	BDL	0.700
Xylenes	BDL	BDL	10

Notes:

1. Concentrations are in milligrams per liter (mg/L), which is approximately equal to parts per million (ppm).
2. BTEX – analyzed by U.S. EPA Method 8260.
3. BDL – Below the Laboratory Detection Limits.

FIGURES

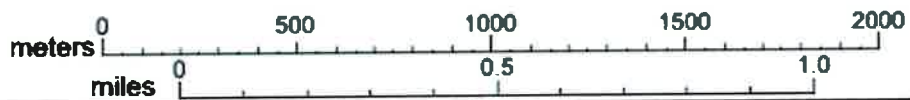


Figure 1.0
Site Location Plan

Remedial Action Plan
300 Midway Boulevard
Elyria, Ohio

USGS Topographic Map: Avon, OH
Date: 1977

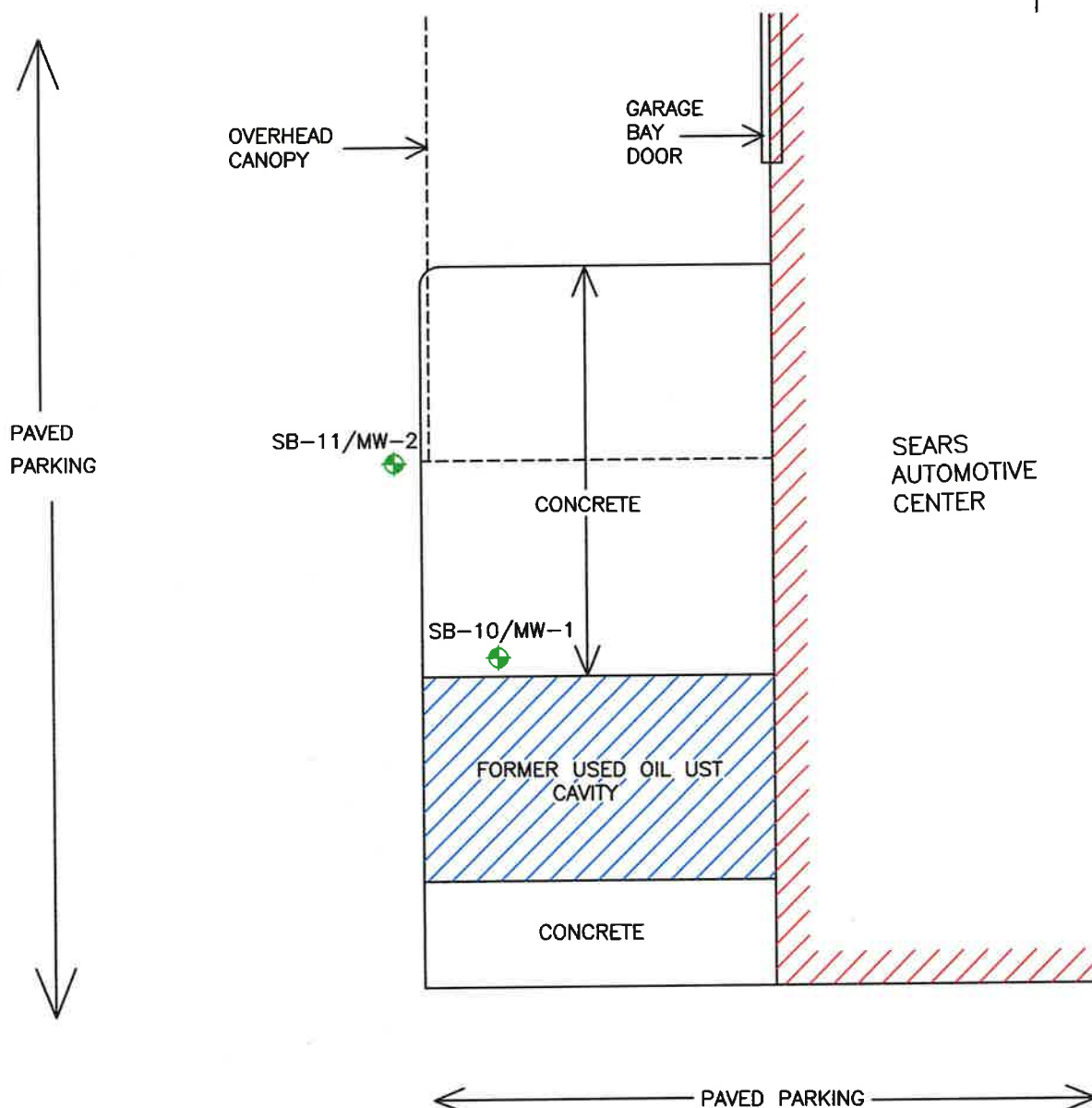
WATTERSON
ENVIRONMENTAL
GROUP, LLC

Prepared For:

Sears, Roebuck and Co.
Hoffman Estates, Illinois

Project No.:

80026.02

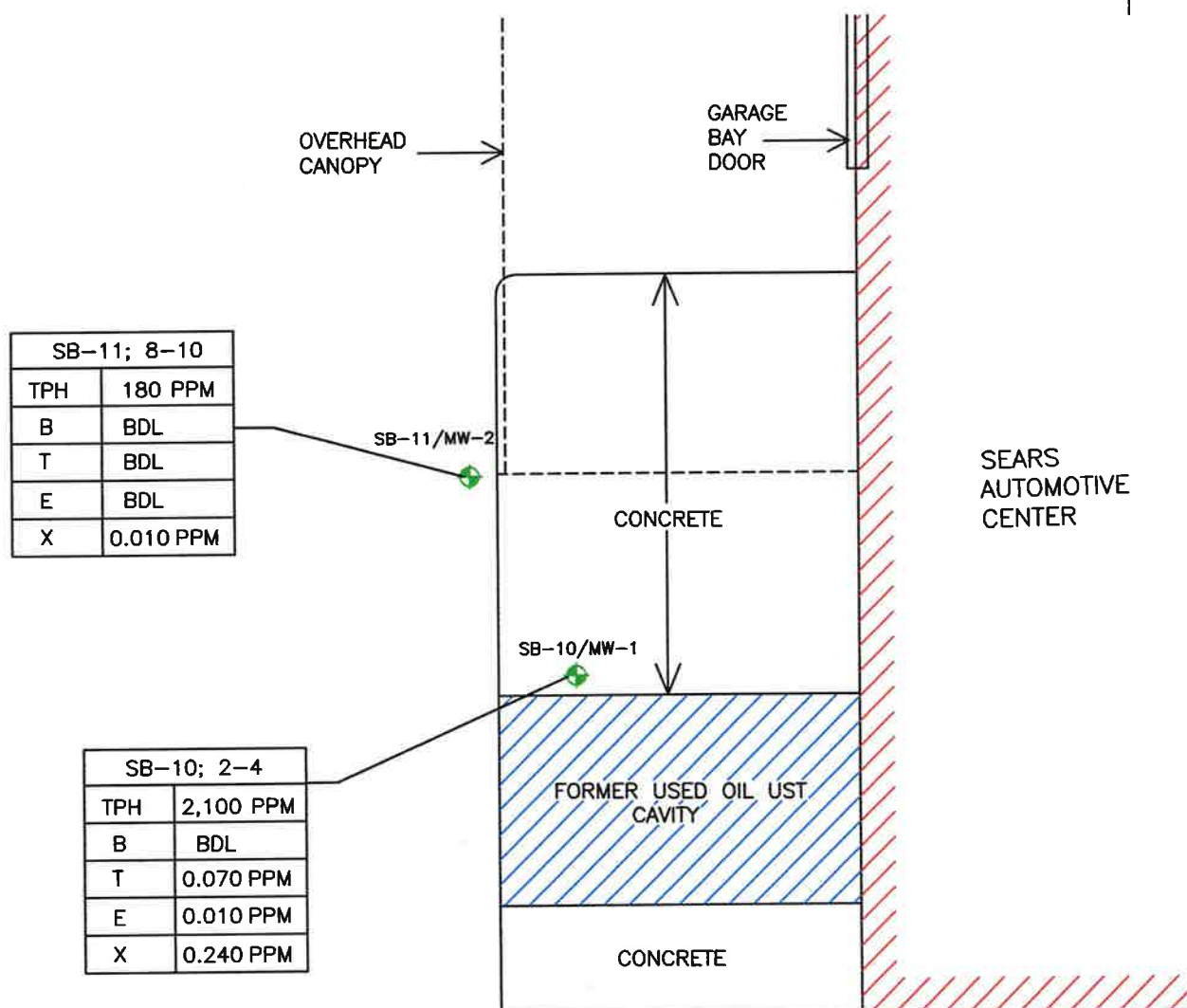


LEGEND



SOIL BORING/MONITORING WELL INSTALLED
BY WATERSON ENVIRONMENTAL GROUP - JUNE 2002

 WATERSON ENVIRONMENTAL GROUP, LLC		FIGURE 2.0 SOIL BORING LOCATION PLAN	
		REMEDIAL ACTION PLAN SEARS UNIT 1310 300 MIDWAY BOULEVARD ELYRIA, OHIO	
APPROVALS	DATE	PREPARED FOR SEARS, ROEBUCK AND CO. HOFFMAN ESTATES, ILLINOIS	
DRAWN T. R. R.	11/13/02		
CHECKED D. DUKAT	11/13/02	JOB NUMBER 80026.02	DRAWING NUMBER FIGURE 2.0
APPROVED D. DUKAT	1/8/03		



LEGEND



SOIL BORING/MONITORING WELL INSTALLED
BY WATERSON ENVIRONMENTAL GROUP - JUNE 2002

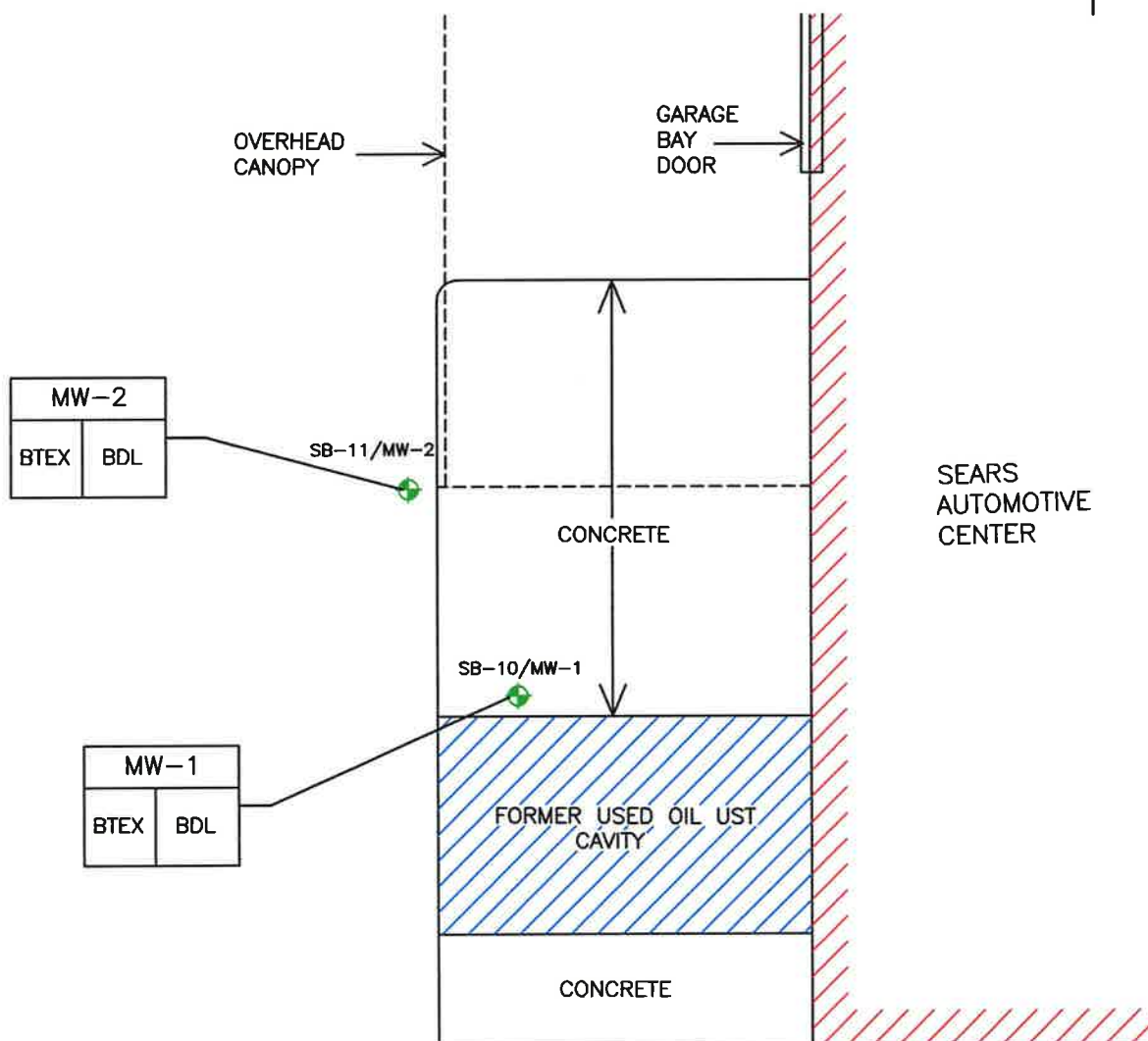
TPH - TOTAL PETROLEUM HYDROCARBONS BY U.S. EPA METHOD 418.1

BTEX - BENZENE, TOLUENE, ETHYLBENZENE, XYLENES BY U.S. EPA METHOD 8260

BDL - BELOW LABORATORY DETECTION LIMITS

PPM - PARTS PER MILLION

WATERSON ENVIRONMENTAL GROUP, LLC		FIGURE 3.0 SOIL SAMPLE ANALYTICAL RESULTS	
APPROVALS		REMEDIAL ACTION PLAN SEARS UNIT 1310 300 MIDWAY BOULEVARD ELYRIA, OHIO	
DRAWN T. R. R.	11/13/02	PREPARED FOR SEARS, ROEBUCK AND CO. HOFFMAN ESTATES, ILLINOIS	
CHECKED D. DUKAT	11/13/02	JOB NUMBER	DRAWING NUMBER
APPROVED D. DUKAT	1/8/03	80026.02	FIGURE 3.0



LEGEND

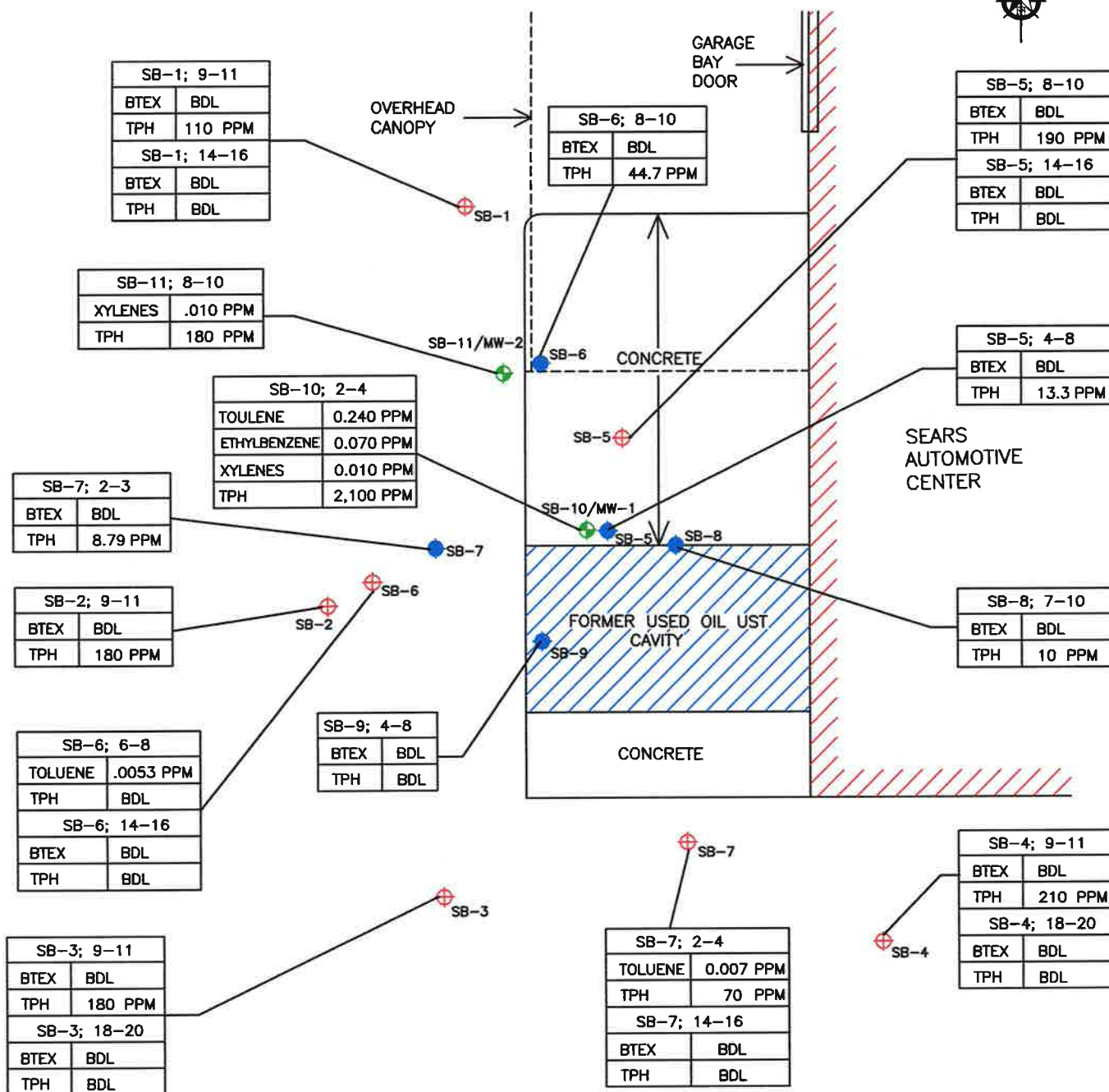


SOIL BORING/MONITORING WELL INSTALLED
BY WATTERSON ENVIRONMENTAL GROUP - JUNE 2002

BTEX - BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
ANALYZED BY U.S. EPA METHOD 8260

BDL - BELOW LABORATORY DETECTION LIMITS

 WATTERSON ENVIRONMENTAL GROUP, LLC		FIGURE 4.0 GROUNDWATER ANALYTICAL RESULTS	
		REMEDIAL ACTION PLAN SEARS UNIT 1310 300 MIDWAY BOULEVARD ELYRIA, OHIO	
APPROVALS	DATE	PREPARED FOR SEARS, ROEBUCK AND CO. HOFFMAN ESTATES, ILLINOIS	
DRAWN T. R. R.	11/13/02		
CHECKED D. DUKAT	11/13/02	JOB NUMBER 80026.02 DRAWING NUMBER FIGURE 4.0	
APPROVED D. DUKAT	1/8/03		



LEGEND

- SOIL BORING/MONITORING WELL INSTALLED BY WATTERSON ENVIRONMENTAL GROUP - JUNE 2002
- SOIL BORING PERFORMED BY IT CORPORATION IN OCTOBER 2001.
- SOIL BORING PERFORMED BY GTI IN SEPTEMBER 1994.

TPH - TOTAL PETROLEUM HYDROCARBONS
BTEX - BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
BDL - BELOW LABORATORY DETECTION LIMITS
PPM - PARTS PER MILLION

WATTERSON ENVIRONMENTAL GROUP, LLC		FIGURE 5.0 SUMMARY OF SOIL ANALYTICAL RESULTS	
APPROVALS		REMEDIAL ACTION PLAN SEARS UNIT 1310 300 MIDWAY BOULEVARD ELYRIA, OHIO	
DRAWN T.R.R.	11/13/02	PREPARED FOR SEARS, ROEBUCK AND CO. HOFFMAN ESTATES, ILLINOIS	
CHECKED D. DUKAT	11/13/02	JOB NUMBER	DRAWING NUMBER
APPROVED D. DUKAT	1/8/03	80026.02	FIGURE 5.0

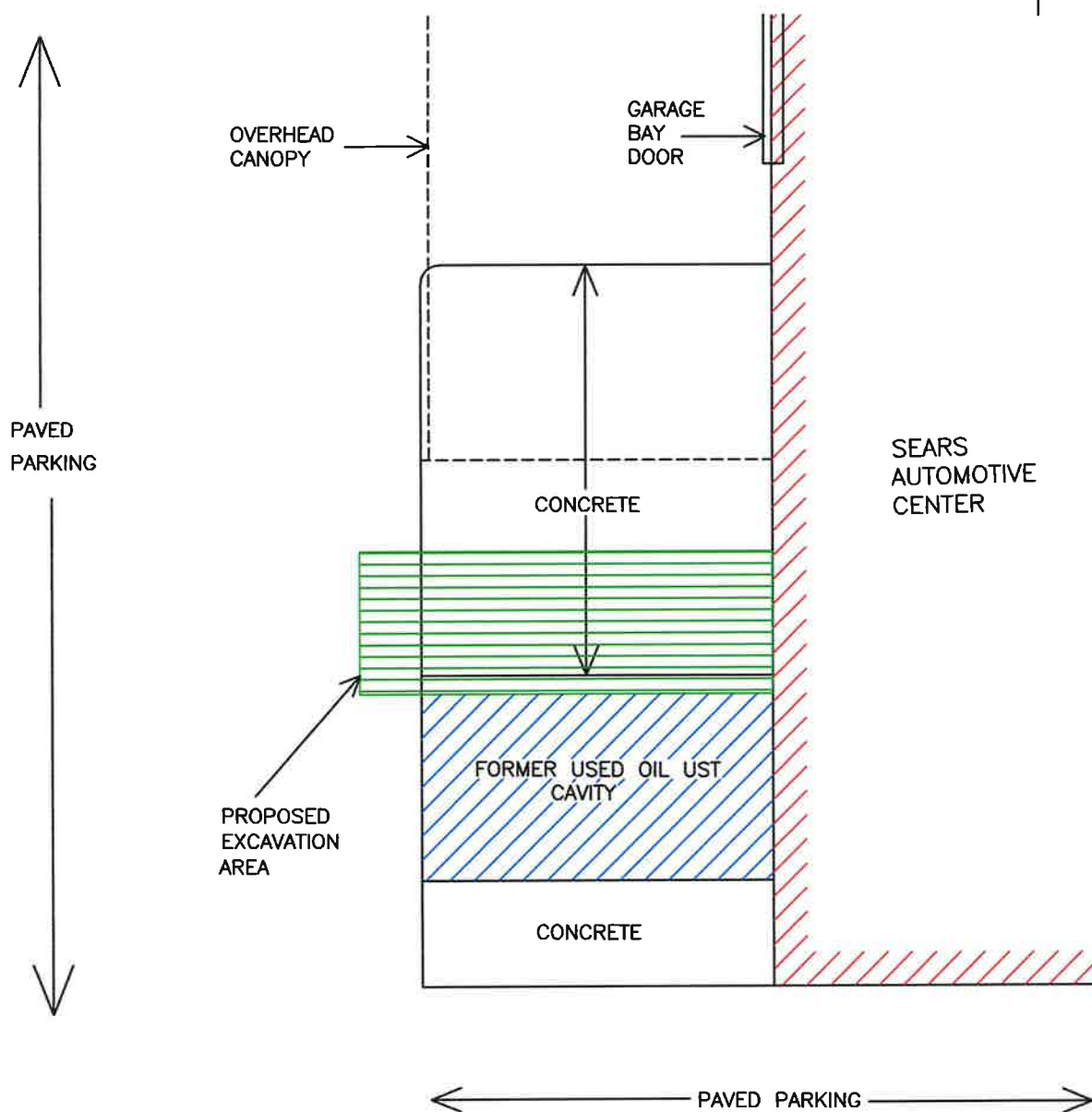


		FIGURE 6.0 PROPOSED EXCAVATION AREA	
		REMEDIAL ACTION PLAN SEARS UNIT 1310 300 MIDWAY BOULEVARD ELYRIA, OHIO	
APPROVALS	DATE	PREPARED FOR SEARS, ROEBUCK AND CO. HOFFMAN ESTATES, ILLINOIS	
DRAWN T. R. R.	11/13/02	JOB NUMBER 80026.02	
CHECKED D. DUKAT	11/13/02	DRAWING NUMBER FIGURE 6.0	
APPROVED D. DUKAT	1/8/03		

APPENDIX A

IT Corporation's January 22, 2002 Letter Report



January 22, 2002

Mr. Dave Biskner
Site Coordinator
Ohio State Fire Marshal
Bureau of Underground Storage Tank Regulations
6606 Tussing Road
Reynoldsburg, Ohio 43068-9009

RE: Sears Auto Center #1310
300 Midway Blvd.
Elyria, Lorain County, Ohio
Incident #4732300-00
Release #47000451-N00001

Dear Mr. Biskner:

IT Corporation was contracted by Sears, Roebuck and Co., (Sears) to conduct assessment and remediation activities at Sears facility 1310 located at 300 Midway Boulevard in Elyria, OH (Figure 1). The activities at the site began in January 1994 with the removal of a 500 gallon used oil underground storage tank (UST) (Figure 2). A soil sample collected from the north wall of the UST excavation during the removal exhibited a total petroleum hydrocarbon (TPH) concentration of 1,200 parts per million (ppm) exceeding the Category 3 action level of 904 ppm (Table 1).

At the request of Bureau of Underground Storage Tank Regulations (BUSTR), site assessment activities were conducted in May 1994. The site assessment consisted of the installation of four soil borings (SB-1 through SB-4) to a depth of 20 feet below the ground surface (bgs). Soil samples were collected for laboratory analysis. Concentrations of benzene, toluene, ethylbenzene and xylenes (BTEX) or TPH were not detected above the action levels (Table 1). Groundwater was not encountered in the soil borings. A Site Assessment Report was completed and submitted for BUSTR review and approval in November 1994.

To date, a response has not been received on the November 1994 report. According to BUSTR's webpage, the Site Assessment is listed as complete, however a Freedom of Information Act (FOIA) request indicates that a letter approving the Site Assessment and requesting a Corrective Action Plan has not been sent to Sears. In a telephone conversation with you, it was suggested that Sears initiate an investigation to determine if the TPH concentrations in the North Wall had decreased since 1994.

Soil borings were installed at the site on October 18, 2001 in and around the former tank basin, concentrating on the area near the former north wall (Figure 3). Five borings (SB-5 through SB-9) were installed to a depth of 10 feet bgs and the soil was field screened using a photolionization detector (PID). Boring logs showing the lithology and PID readings are attached. One sample from each boring with the highest PID reading was submitted to GeoAnalytical Laboratory in Twinsburg, OH for analysis of BTEX according to EPA Method 8020 and TPH according to EPA Method 418.1. Copies of the laboratory analytical results are attached. The results indicated that BTEX and TPH concentrations were not detected above the Category 3 action levels in the samples submitted from the five borings (Table 1 and Figure 4). Groundwater was not encountered in the five soil borings.

IT Corporation

11346 Aurora Avenue
Urbandale, IA 50322-7907
Tel. 515.252.0234
Fax. 515.252.0206

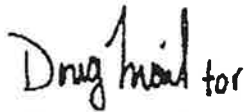
A Member of The IT Group

NFA Request Letter
Sears #1310, 500 Midway Blvd., Elyria, OH

-Page 2
January 22, 2002

The October 2001 investigation indicates that TPH concentrations in the north wall of the former excavation have decreased over time and are no longer above the Category 3 action levels. Based on the lack of BTEX and TPH concentrations above action levels and the lack of groundwater, Sears and IT Corporation are requesting that this site be granted "No Further Action" status. We trust this information is sufficient to meet your requirements. If you have questions, please contact Scott DeMuth of Sears at (847) 286-5530 or our office at (440) 746-0833.

Sincerely,
IT Corporation



Christine G. Huth
Site Manager



Doug Trall
Zone Project Manager

Attachments

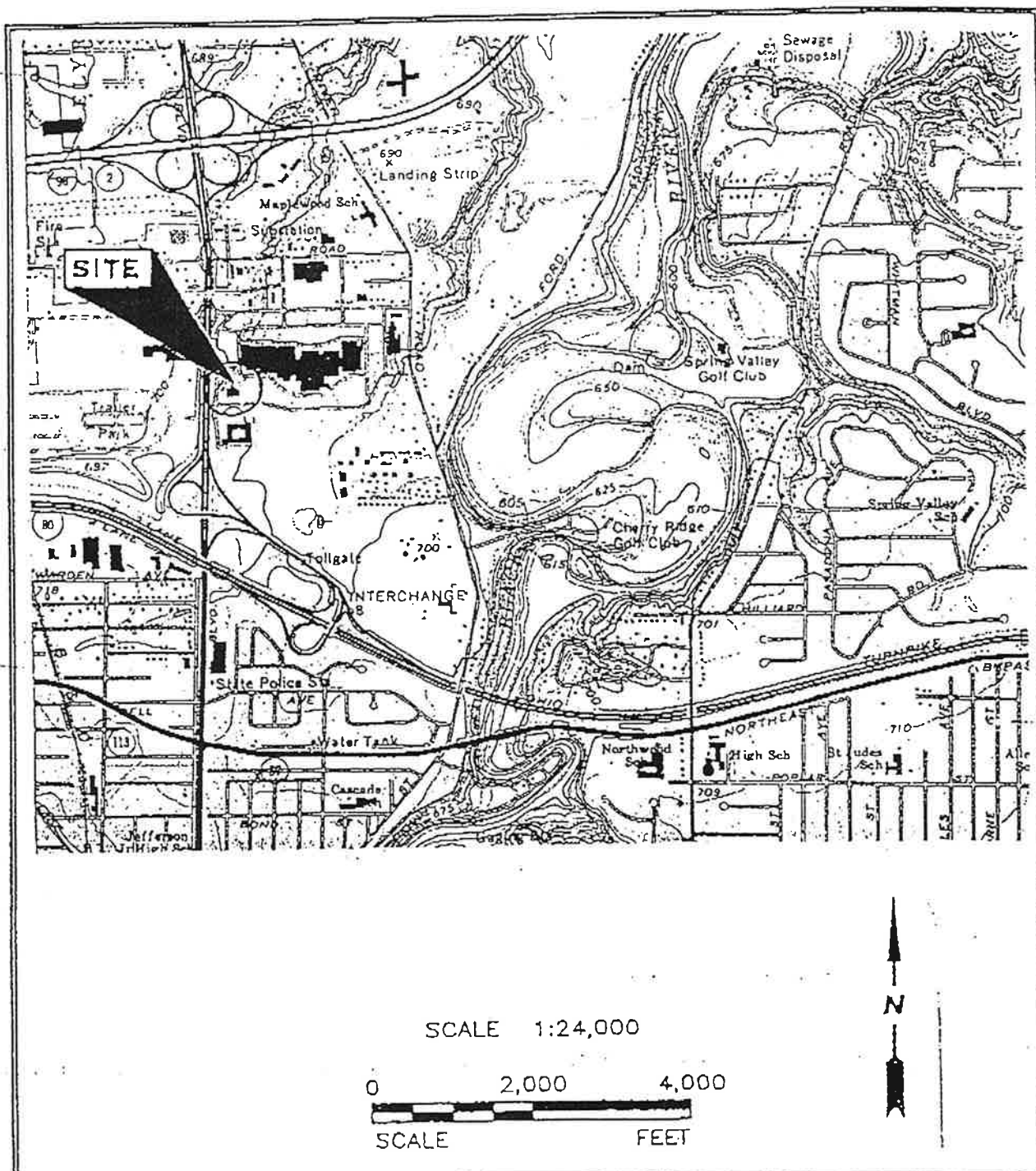
cc: Scott DeMuth, Sears, Roebuck and Co.
IT Corporation, Overland Park, Kansas

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

SEARS #1310
300 Midway Blvd.
Elyria, Ohio
Incident #4732300-00

SAMPLE I.D.	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	TPH
North Wall	01/07/94	<0.73	<0.73	0.39	0.22	1200
South Wall	01/07/94	<0.006	<0.006	<0.006	0.0038	350
East Wall	01/07/94	<0.006	<0.006	<0.006	<0.006	130
West Wall	01/07/94	<0.006	<0.006	<0.006	<0.006	240
Bottom UST	01/07/94	<0.73	<0.73	<0.73	1.3	520
SB-1 (9-11')	05/24/94	<0.005	<0.005	<0.005	<0.005	110
SB-1 (18-20')	05/24/94	<0.005	<0.005	<0.005	<0.005	<33
SB-2 (9-11')	05/24/94	<0.005	<0.005	<0.005	<0.005	180
SB-3 (9-11')	05/24/94	<0.005	<0.005	<0.005	<0.005	180
SB-3 (18-20')	05/24/94	<0.005	<0.005	<0.005	<0.005	<34
SB-4 (9-11')	05/24/94	<0.005	<0.005	<0.005	<0.005	210
SB-4 (18-20')	05/24/94	<0.005	<0.005	<0.005	<0.005	<36
SB-5 (4-8')	10/18/01	<0.002	<0.002	<0.002	<0.002	13.3
SB-6 (8-10')	10/18/01	<0.002	<0.002	<0.002	0.0034	44.7
SB-7 (2-3')	10/18/01	<0.002	<0.002	<0.002	<0.002	8.79
SB-8 (7-10')	10/18/01	<0.002	<0.002	<0.002	<0.002	10
SB-9 (4-8')	10/18/01	<0.002	<0.002	<0.002	<0.002	<4
BUSTR Category 3 ACTION LEVEL		0.335	9	14	67	904

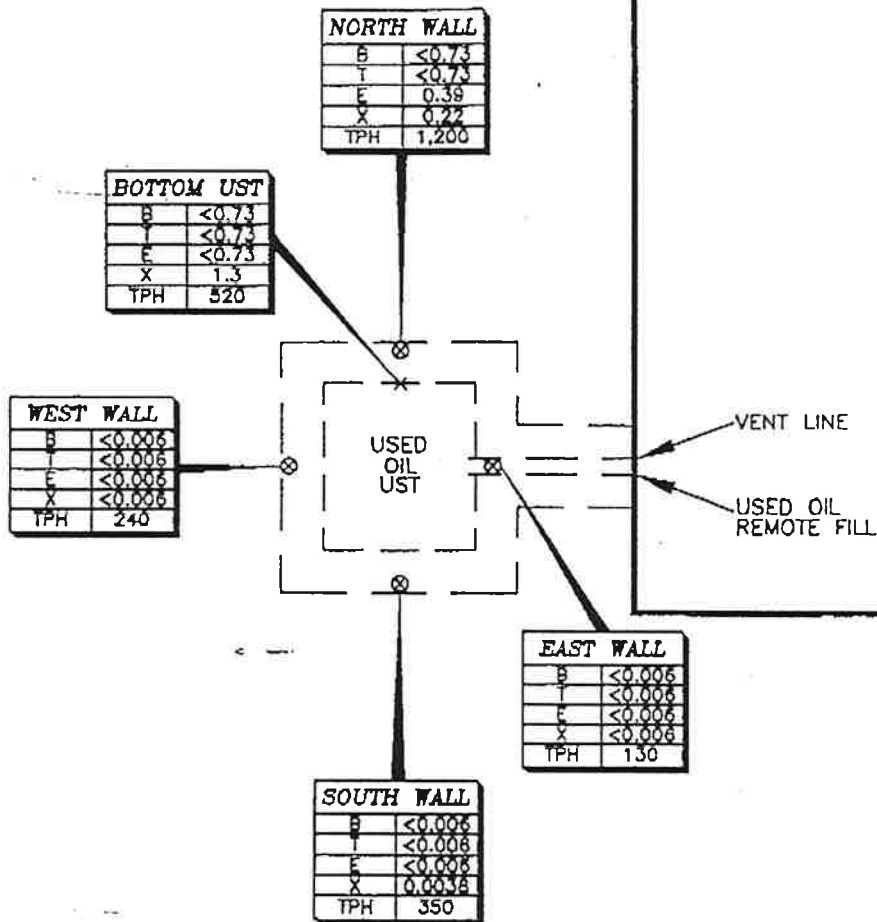
Laboratory results reported in milligrams per kilogram (mg/Kg).
All samples were analyzed according to US EPA Methods 8240 or Method 8020 for BTEX and 418.1 for TPH.



Source: U.S.G.S. Avon Quadrangle Ohio—Lorain Co. 7.5 Minute Series (Topographic) 1963 and 1979 Drawn to Scale			SITE LOCATION MAP		
DETAILED: AWS		CLIENT: SEARS MERCHANDISE GROUP		DATE: 03/01/94	
CHECKED: MGK		STORE: 300 Midway Boulevard Elyria, Ohio 44035		FIGURE: 1	



SEARS
AUTO CENTER #1310



LEGEND:

- — — — — AREA OF AXCATION
- ⊗ LOCATION OF SIDEWALL SOIL SAMPLES (6' DEPTH)
- x LOCATION OF BOTTOM SOIL SAMPLES (8' DEPTH)

NOTE:

ALL RESULTS ARE IN ppm.

NOT TO SCALE



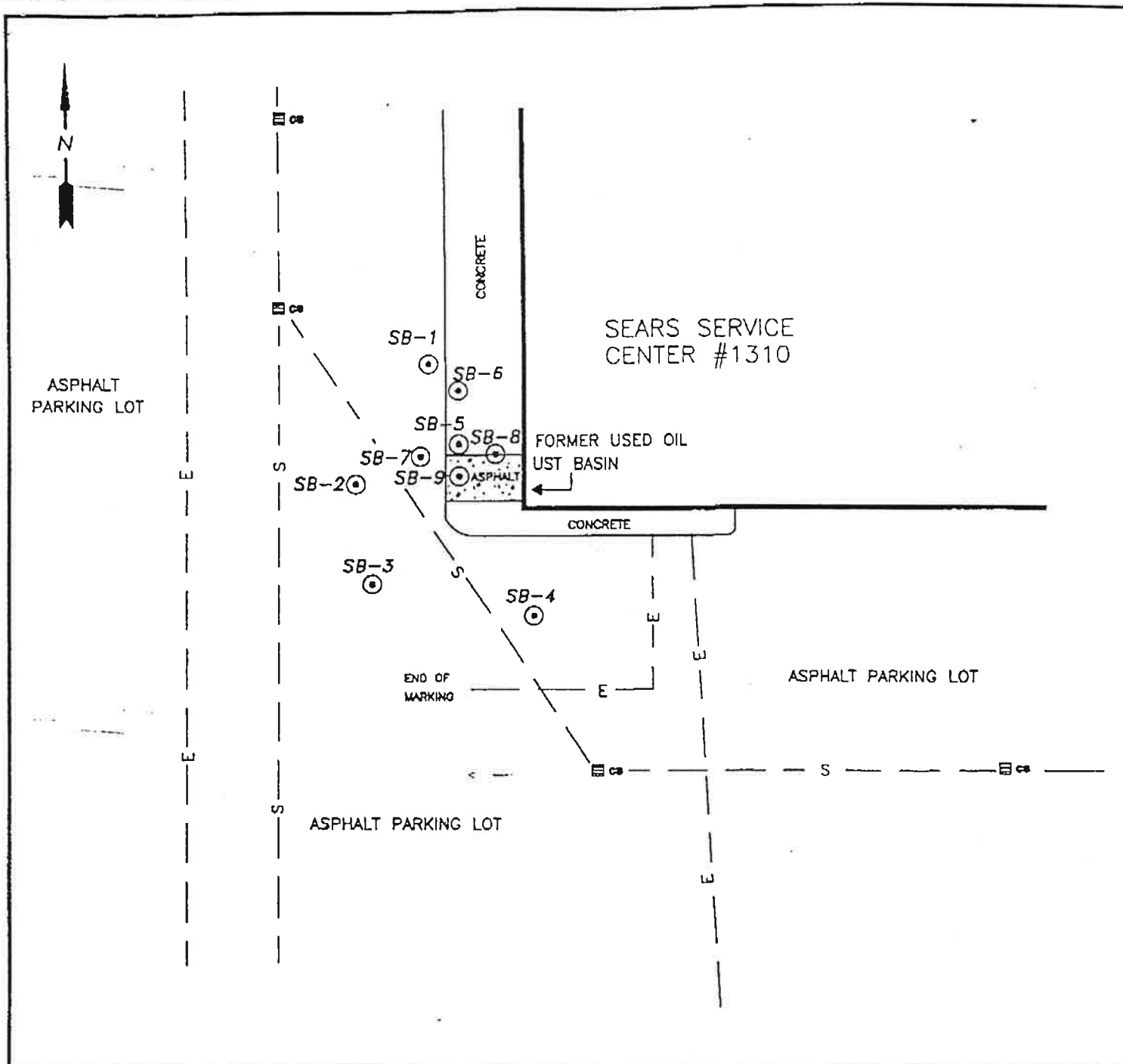
IT CORPORATION
A Member of The IT Group

6910-F TREELINE DRIVE
BRECKSVILLE, OHIO 44141
(440) 746-0833

REV. NO.: DRAWING DATE: 11/02/01 ACAD FILE: 1310SM

**SOIL RESULTS FROM UST REMOVAL
FROM 01/07/94**

CLIENT:	SEARS, ROEBUCK AND COMPANY		PM:
LOCATION:	STORE #1310 300 MIDWAY BOULEVARD ELYRIA, OHIO		PE/RC: TB
DESIGNED:	DETAILED: C.S.	PROJECT NO.: 832375	FIGURE: 2



LEGEND:

- SOIL BORING
- STORM SEWER CATCH BASIN
- BURIED ELECTRIC LINE
- SEWER LINE

0 30 60
SCALE FEET

IT CORPORATION
A Member of The IT Group

6910-F TREELINE DRIVE
BRECKSVILLE, OHIO 44141
(440) 746-0833

REV. NO.: DRAWING DATE: 11/02/01 ACAD FILE: 1310SM

SOIL SAMPLE LOCATIONS

CLIENT: **SEARS, ROEBUCK AND COMPANY**

PM:

LOCATION: STORE #1310
300 MIDWAY BOULEVARD
ELYRIA, OHIO

PE/RG:
TB

DESIGNED: RJP DETAILED: C.S. PROJECT NO.: 832375

FIGURE:
3



Drilling Log

Soil Boring **SB-05**

Page: 1 of 1

Project Sears #1310 Owner Sears, Roebuck and Co.
 Location 300 Midway Boulevard Proj. No. _____
 Surface Elev. NA Total Hole Depth 10.0 ft. North _____ East _____
 Top of Casing NA Water Level Initial NA Static NA Diameter 2" in.
 Screen: Dia NA Length NA Type/Size NA
 Casing: Dia NA Length NA Type NA
 Fill Material _____ Rig/Core Geoprobe
 Drill Co. Summit Method Direct Push
 Driller B. Krukow Log By J. Haugh Date 10/18/01 Permit # NA
 Checked By C. Huth License No. _____

COMMENTS

Depth (ft.)	PID (ppm)	Sample ID % Recovery	Blow Count Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Geologic Descriptions are Based on the USCS.
0						
2	19.4	0-4 100%			CL	Dark gray silty sandy CLAY, light compaction, damp
4						
6	25	4-8 100%			CL	Light gray CLAY, black staining, damp, hard compaction
8						
10	25	8-10 100%				
12						
14						
16						
18						
20						
22						
24						



Drilling Log

Soil Boring **SB-06**

Page: 1 of 1

Project Sears #1310 Owner Sears, Roebuck and Co.
 Location 300 Midway Boulevard Proj. No. _____
 Surface Elev. NA Total Hole Depth 10.0 ft. North _____ East _____
 Top of Casing NA Water Level Initial NA Static NA Diameter 2" In.
 Screen: Dia NA Length NA Type/Size NA
 Casing: Dia NA Length NA Type NA
 Fill Material _____ Rig/Core Geoprobe
 Drill Co. Summit Method Direct Push
 Driller B. Krukow Log By J. Haugh Date 10/18/01 Permit # NA
 Checked By C. Huth License No. _____

COMMENTS

Depth (ft.)	PID (ppm)	Sample ID % Recovery	Blow Count Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Geologic Descriptions are Based on the USCS.
0						Black gravel and gray silty sand, damp, light compaction
2	37	0-4 100%			GW GP	Light gray CLAY, black staining, damp, hard compaction
4						
6	8	4-8 100%			CL	
8						
10	64	8-10 100%				
12						
14						
16						
18						
20						
22						
24						



Drilling Log

Soil Boring **SB-07**

Page: 1 of 1

Project Sears #1310 Owner Sears, Roebuck and Co.
 Location 300 Midway Boulevard Proj. No. _____
 Surface Elev. NA Total Hole Depth 10.0 ft. North _____ East _____
 Top of Casing NA Water Level Initial NA Static NA Diameter 2" in.
 Screen: Dia NA Length NA Type/Size NA
 Casing: Dia NA Length NA Type NA
 Fill Material _____ Rig/Core Geoprobe
 Drill Co. Summit Method Direct Push
 Driller B. Krukow Log By J. Haugh Date 10/18/01 Permit # NA
 Checked By C. Huth License No. _____

COMMENTS

Depth (ft.)	PID (ppm)	Sample ID % Recovery	Blow Count Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Geologic Descriptions are Based on the USCS.
0						
2	2000	2-3 100%			CL ML	Gravel fragments light gray fines, dark brown-black CLAY, some black staining, moist
4	683	3-7 100%				gray/brown CLAY hard compaction, moist with some black staining
6					CL	
8	823	7-10 100%				
10						
12						
14						
16						
18						
20						
22						
24						



IT CORPORATION
A Member of The IT Group

Drilling Log

Soil Boring **SB-08**

Page: 1 of 1

Project Sears #1310 Owner Sears, Roebuck and Co.
Location 300 Midway Boulevard Proj. No. _____
Surface Elev. NA Total Hole Depth 10.0 ft. North _____ East _____
Top of Casing NA Water Level Initial NA Static NA Diameter 2" in.
Screen: Dia NA Length NA Type/Size NA
Casing: Dia NA Length NA Type NA
Fill Material _____ Rig/Core Geoprobe
Drill Co. Summit Method Direct Push
Driller B. Krukow Log By J. Haugh Date 10/18/01 Permit # NA
Checked By C. Huth License No. _____

COMMENTS

Depth (ft)	PID (ppm)	Sample ID % Recovery	Blow Count Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Geologic Descriptions are Based on the USCS.
0						
2	114	2-3 100%			GP GM	Gray gravel and silty sand/clay, damp, light compaction
4	147	3-7 100%				
6					CL	Brown CLAY with black and yellow staining, damp, hard compaction
8	212	7-10 100%				
10						
12						
14						
16						
18						
20						
22						
24						



Drilling Log

Soil Boring **SB-09**

Page: 1 of 1

Project Sears #1310 Owner Sears, Roebuck and Co.
 Location 300 Midway Boulevard Proj. No. _____
 Surface Elev. NA Total Hole Depth 10.0 ft. North _____ East _____
 Top of Casing NA Water Level Initial NA Static NA Diameter 2" in.
 Screen: Dia NA Length NA Type/Size NA
 Casing: Dia NA Length NA Type NA
 Fill Material _____ Rig/Core Geoprobe
 Drill Co. Summit Method Direct Push
 Driller B. Krukow Log By J. Haugh Date 10/18/01 Permit # NA
 Checked By C. Huth License No. _____

COMMENTS

Depth (ft.)	PID (ppm)	Sample ID % Recovery	Blow Count Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Geologic Descriptions are Based on the USCS.
0						
2	120	2-4 100%			SP SM	Black silty sand, some clay, black staining, light compaction
4						
6	60.7	4-8 100%			CL	Brown CLAY with black staining, damp, hard compaction
8						
10	34.9	8-10 100%				
12						
14						
16						
18						
20						
22						
24						



October 26, 2001

Christine Huth
I.T. Corporation
6910 Treeline Dr. Suite F
Brecksville, Ohio 44141
TEL: (440) 746-0833
FAX (440) 746-0934

RE: Sears 1310 / #832375

Order No.: 0110068

Dear Christine Huth,

GEO Analytical, Inc. received 5 samples on 10/18/01 for the analyses presented in the following report.

Analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Reviewed by

CC:



Analytical, Inc.

Date: 26-Oct-01

CLIENT: I.T. Corporation
Project: Sears 1310 / #832375
Lab Order: 0110068

CASE NARRATIVE



Date: 26-Oct-01

CLIENT: I.T. Corporation
 Lab Order: 0110068
 Project: Sears 1310 / #832375
 Lab ID: 0110068-01A

Client Sample ID: SB-5 4-8
 Tag Number:
 Collection Date: 10/18/01
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILE ORGANICS IN SOIL						Analyst: JN
	SW8020A					
Benzene	ND	2.00		µg/Kg	1	10/23/01
Ethylbenzene	ND	2.00		µg/Kg	1	10/23/01
m,p-Xylene	ND	2.00		µg/Kg	1	10/23/01
o-Xylene	ND	2.00		µg/Kg	1	10/23/01
Toluene	ND	2.00		µg/Kg	1	10/23/01
Xylenes, total	ND	2.00		µg/Kg	1	10/23/01
Surr: Fluorobenzene	74.0	44-119		%REC	1	10/23/01
Surr: Trifluorotoluene	71.0	37-137		%REC	1	10/23/01
TOTAL PETROLEUM HYDROCARBONS, T/R						Analyst: JW
	E418.1					
Petroleum Hydrocarbons, TR	13.3	4.00		mg/Kg	1	10/19/01

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



Date: 26-Oct-01

CLIENT: I.T. Corporation
 Lab Order: 0110068
 Project: Sears 1310 / #832375
 Lab ID: 0110068-02A

Client Sample ID: SB-6 8-10
 Tag Number:
 Collection Date: 10/18/01
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILE ORGANICS IN SOIL		SW8020A		Analyst: JN		
Benzene	ND	2.00		µg/Kg	1	10/26/01
Ethylbenzene	ND	2.00		µg/Kg	1	10/26/01
m,p-Xylene	3.40	2.00		µg/Kg	1	10/26/01
o-Xylene	ND	2.00		µg/Kg	1	10/26/01
Toluene	ND	2.00		µg/Kg	1	10/26/01
Xylenes, total	3.40	2.00		µg/Kg	1	10/26/01
Surr: Fluorobenzene	71.0	44-119		%REC	1	10/26/01
Surr: Trifluorotoluene	88.0	37-137		%REC	1	10/26/01
TOTAL PETROLEUM HYDROCARBONS, T/R		E418.1		Analyst: JW		
Petroleum Hydrocarbons, TR	44.7	4.00		mg/Kg	1	10/19/01

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



Date: 26-Oct-01

CLIENT: I.T. Corporation
 Lab Order: 0110068-
 Project: Sears 1310 / #832375
 Lab ID: 0110068-03A

Client Sample ID: SB-7 2-3
 Tag Number:
 Collection Date: 10/18/01
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILE ORGANICS IN SOIL		SW8020A		Analyst: JN		
Benzene	ND	2.00		µg/Kg	1	10/23/01
Ethylbenzene	ND	2.00		µg/Kg	1	10/23/01
m,p-Xylene	ND	2.00		µg/Kg	1	10/23/01
o-Xylene	ND	2.00		µg/Kg	1	10/23/01
Toluene	ND	2.00		µg/Kg	1	10/23/01
Xylenes, total	ND	2.00		µg/Kg	1	10/23/01
Surr: Fluorobenzene	80.0	44-119		%REC	1	10/23/01
Surr: Trifluorotoluene	77.0	37-137		%REC	1	10/23/01
TOTAL PETROLEUM HYDROCARBONS, T/R		E418.1		Analyst: JW		
Petroleum Hydrocarbons, TR	8.79	4.00		mg/Kg	1	10/19/01

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



Date: 26-Oct-01

CLIENT: I.T. Corporation
 Lab Order: 0110068
 Project: Sears 1310 / #832375
 Lab ID: 0110068-04A

Client Sample ID: SB-9 4-8
 Tag Number:
 Collection Date: 10/18/01
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILE ORGANICS IN SOIL		SW8020A		Analyst: JN		
Benzene	ND	2.00		µg/Kg	1	10/23/01
Ethylbenzene	ND	2.00		µg/Kg	1	10/23/01
m,p-Xylene	ND	2.00		µg/Kg	1	10/23/01
o-Xylene	ND	2.00		µg/Kg	1	10/23/01
Toluene	ND	2.00		µg/Kg	1	10/23/01
Xylenes, total	ND	2.00		µg/Kg	1	10/23/01
Surr: Fluorobenzene	69.0	44-119		%REC	1	10/23/01
Surr: Trifluorotoluene	72.0	37-137		%REC	1	10/23/01
TOTAL PETROLEUM HYDROCARBONS, T/R		E418.1		Analyst: JW		
Petroleum Hydrocarbons, TR	ND	4.00		mg/Kg	1	10/19/01

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



Date: 26-Oct-01

CLIENT: I.T. Corporation
 Lab Order: 0110068
 Project: Sears 1310 / #832375
 Lab ID: 0110068-05A

Client Sample ID: SB-8 7-10
 Tag Number:
 Collection Date: 10/18/01
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILE ORGANICS IN SOIL		SW8020A				Analyst: JN
Benzene	ND	2.00		µg/Kg	1	10/23/01
Ethylbenzene	ND	2.00		µg/Kg	1	10/23/01
m,p-Xylene	ND	2.00		µg/Kg	1	10/23/01
o-Xylene	ND	2.00		µg/Kg	1	10/23/01
Toluene	ND	2.00		µg/Kg	1	10/23/01
Xylenes, total	ND	2.00		µg/Kg	1	10/23/01
Surr: Fluorobenzene	60.0	44-119		%REC	1	10/23/01
Surr: Trifluorotoluene	59.0	37-137		%REC	1	10/23/01
TOTAL PETROLEUM HYDROCARBONS, T/R		E418.1				Analyst: JW
Petroleum Hydrocarbons, TR	10.0	4.00		mg/Kg	1	10/19/01

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



Analytical, Inc.

Date: 26-Oct-01

CLIENT: I.T. Corporation
Project: Sears 1310 / #832375
Lab Order: 0110068
Date Received: 10/18/01

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
0110068-01A	SB-5 4-8		10/18/01
0110068-02A	SB-6 8-10		10/18/01
0110068-03A	SB-7 2-3		10/18/01
0110068-04A	SB-9 4-8		10/18/01
0110068-05A	SB-8 7-10		10/18/01



CHAIN OF CUSTODY RECORD

01/0068

Project: 832375

[illegible]

CHAIN OF CUSTODY SIGNATURES (Name, Company, Date, Time)

1. Relinquished By: Chapman 10/18/01 1530

Received By: _____

3. Relinquished By: _____

Received By: _____

2. Relinquished By:

Received By:

4. Submitted to Laboratory By:

Received for Laboratory By:

APPENDIX B

Soil Boring Logs

				Sears Unit 1310		Boring No. SB-10	
				300 Midway Boulevard		Sheet No. 1 of 2	
				Elyria, Ohio		Project No. 80026.02	
Drilling Co.: Belasco Drilling Co.					Surface Elevation: NA		
Drilling Method: Hollow Stem Auger					Casing Elevation: NA		
Geologist: David Dukat					Depth To Water (Initial): NA		
Date: June 20, 2002					Depth To Water (At Completion): 11		
Boring Location: North edge of former UST cavity, approximately 6' from Auto Center					Total Depth of Boring: 26.5 Feet		
Depth (ft)	Sample					Sample/Geologic Description	
	No.	Blow Count	Rec. (ft)	PID (ppm)	Soil Symbol ¹		
1	S-1		0.2	2,000		Concrete and Base Gravel Top 1'	
2		2			ML	Brown clayey-silt with some pebbles, no odor, moist	
		1					
3	S-2*	1	1.0	2,000	ML	Brown clayey-silt with some pebbles, petroleum odor, moist Approx. 6" thick dark staining at 3' +/-	
		1					
4		2					
		4					
5	S-3	2	1.0	2,000	CL/ML	Gray silty-clay mottled with brown clayey-silt, no odor, moist	
		3					
6		4					
		6					
7	S-4	2	0.1	2,000	ML	Brown clayey-silt with some pebbles, no odor, moist	
		4					
8		7					
		17					
9	S-5	3	1.8	0	CL	Gray silty-clay with some pebbles/rock fragments, no odor, moist	
		6					
10		7					
		14					
11	S-6	4	1.8	0	CL	Gray silty-clay with some pebbles/rock fragments, no odor, damp	
		7					
12		6					
		16					
13	S-7	4	2.0	0	CL	Gray silty-clay with some pebbles/rock fragments, no odor, damp	
		7					
14		13					
		17					
15	S-8	6	1.2	0	CL	Gray silty-clay with some pebbles/rock fragments, no odor, damp Reddish/Brown fissile shale, no odor, dry	
		7					
16		24					
		40			Rock		

¹ - As defined by the Unified Soil Classification System

* - Sample Submitted for Laboratory Analysis

Remarks or Notes: Monitoring well was screened from 25' to 17' bgs, with solid riser to the top. Sand pack to 17' bgs, followed by 3' of bentonite, with concrete/bentonite grout to the ground surface.

			Sears Unit 1310		Boring No. SB-10	
			300 Midway Boulevard		Sheet No. 2 of 2	
			Elyria, Ohio		Project No. 80026.02	
Drilling Co.: Belasco Drilling Co.					Surface Elevation: NA	
Drilling Method: Hollow Stem Auger					Casing Elevation: NA	
Geologist: David Dukat					Depth To Water (Initial): NA	
Date: June 20, 2002					Depth To Water (At Completion): 11	
Boring Location: North edge of former UST cavity, approximately 6' from Auto Center					Total Depth of Boring: 26.5 Feet	
Depth (ft)	Sample					Sample/Geologic Description
	No.	Blow Count	Rec. (ft)	PID (ppm)	Soil Symbol ¹	
17	S-9	15	0.2	NA		Reddish/Brown fissile shale, no odor, dry
		50/2			Rock	
18						
19	S-10	25	0.8	NA		Reddish/Brown fissile shale, no odor, dry
		46			Rock	
20		50/5				
21	S-11	6	1.0	NA		Reddish/Brown fissile shale, no odor, dry
		20			Rock	
22		28				
		50/5				
23	S-12	21	0.4	NA		Reddish/Brown fissile shale, no odor, dry
		50/5			Rock	
24						
25	S-13	50/5	0.6	NA		Reddish/Brown fissile shale, no odor, dry
					Rock	
26						
27	S-14	50/6	0.4	NA	Rock	Reddish/Brown fissile shale, no odor, dry
						Auger Refusal on Bedrock at 26.5'
28						
29						
30						
31						
32						

¹ - As defined by the Unified Soil Classification System

* - Sample Submitted for Laboratory Analysis

Remarks or Notes: Monitoring well was screened from 25' to 17' bgs, with solid riser to the top. Sand pack to 17' bgs, followed by 3' of bentonite, with concrete/bentonite grout to the ground surface.

			Sears Unit 1310		Boring No. SB-11	
			300 Midway Boulevard		Sheet No. 1 of 2	
			Elyria, Ohio		Project No. 80026.02	
Drilling Co.: Belasco Drilling Co.					Surface Elevation: NA	
Drilling Method: Hollow Stem Auger					Casing Elevation: NA	
Geologist: David Dukat					Depth To Water (Initial): 23	
Date: June 20, 2002					Depth To Water (At Completion): 23	
Boring Location: In pavement, adjacent to overhead canopy, approximately 10 feet from Auto Center, approximately 12 feet north of former UST					Total Depth of Boring: 26.5 Feet	
Depth (ft)	Sample					Sample/Geologic Description
	No.	Blow Count	Rec. (ft)	PID (ppm)	Soil Symbol ¹	
1	S-1	8	0.6	10		Asphalt Top 6” Brown clayey-silt, no odor, damp
2		3			ML	
		3				
3	S-2	5	0.2	4	ML	Brown clayey-silt, no odor, damp
		4				
4		7				
		10				
5	S-3	5	0.8	0	ML	Brown clayey-silt, no odor, dry
		5				
6		6				
		10				
7	S-4	6	1.2	2	ML/CL	Brown clayey-silt mottled with gray silty-clay, no odor, dry
		8				
8		6				
		7				
9	S-5*	7	1.0	10	CL	Gray silty-clay with some pebbles, no odor, dry
		11				
10		14				
		20				
11	S-6	6	1.8	0	CL	Gray silty-clay with some pebbles, no odor, dry
		11				
12		15				
		17				
13	S-7	3	2.0	2	CL	Gray silty-clay with some pebbles, no odor, moist
		7				
14		10				
		14				
15	S-8	7	1.6	0	CL	Gray silty-clay with some pebbles, no odor, dry Reddish/Brown fissile shale, no odor, dry
		16				
16		17			Rock	
		24				

¹ - As defined by the Unified Soil Classification System

* - Sample Submitted for Laboratory Analysis

Remarks or Notes: Monitoring well was screened from 25' to 17' bgs, with solid riser to the top. Sand pack to 17' bgs, followed by 3' of bentonite, with concrete/bentonite grout to the ground surface.

			Sears Unit 1310		Boring No. SB-11	
			300 Midway Boulevard		Sheet No. 2 of 2	
			Elyria, Ohio		Project No. 80026.02	
Drilling Co.: Belasco Drilling Co.					Surface Elevation: NA	
Drilling Method: Hollow Stem Auger					Casing Elevation: NA	
Geologist: David Dukat					Depth To Water (Initial): 23	
Date: June 20, 2002					Depth To Water (At Completion): 23	
Boring Location: In pavement, adjacent to overhead canopy, approximately 10 feet from Auto Center, approximately 12 feet north of former UST					Total Depth of Boring: 26 Feet	
Depth (ft)	Sample					Sample/Geologic Description
	No.	Blow Count	Rec. (ft)	PID (ppm)	Soil Symbol ¹	
17	S-9	7	0.6	NA		Reddish/Brown fissile shale, no odor, dry
		44			Rock	
18		50/4				
19	S-10	20	1.0	NA		Reddish/Brown fissile shale, no odor, dry
		40			Rock	
20		50/6				
21	S-11	36	0.8	NA		Reddish/Brown fissile shale, no odor, dry
		50/3			Rock	
22						
23	S-12	50/5	0.4	NA		Reddish/Brown fissile shale with some limestone rock fragments, no odor, dry
					Rock	
24						
25	S-13	39	0.6	NA		Reddish/Brown fissile shale with some limestone rock fragments, no odor, dry
		50/3			Rock	
26						
27	S-14	50/5	0.2	NA	Rock	Reddish/Brown fissile shale, no odor, dry
						Auger Refusal on Bedrock at 26.5'
28						
29						
30						
31						
32						

¹ - As defined by the Unified Soil Classification System

* - Sample Submitted for Laboratory Analysis

Remarks or Notes: Monitoring well was screened from 25' to 17' bgs, with solid riser to the top. Sand pack to 17' bgs, followed by 3' of bentonite, with concrete/bentonite grout to the ground surface.

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

944975

WELL LOCATION

County Lorain Township Elyria

Owner/Builder Sears Automotive Center
(Circle One or Both) First Last

Address of Well Location 300 Midway Blvd
Number Street Name

City Elyria Zip Code +4 44035

Permit No. Section/Lot No.
(Circle One or Both)

Location of Well in State Plane coordinates, if available:

Use of Well Monitoring

N ☐ X N/A +/- ft. or m

S ☐ Y N/A +/- ft. or m

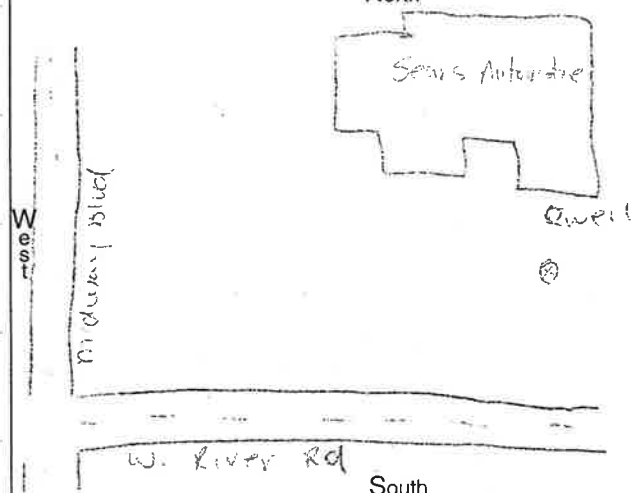
Elevation of Well N/A +/- ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:

North



WELL TEST*

Pre-Pumping Static Level _____ ft. Date _____

Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other _____

☐ Air ☐ Bailing ☐ Pumping ☐ Other _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality _____

PUMP/PITLESS

Type of pump N/A Capacity _____ gpm

Pump set at _____ ft. Pitless Type N/A

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Belasco Drilling Inc

Address 1579 Alum Creek Rd

City, State, Zip Columbus OH

Signed Mark C. O. Date 7-1-02

ODH Registration Number N/A

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other _____

BOREHOLE/CASING (measured from ground surface)

1 ☐ Borehole Diameter 8 inches Depth 25.6 ft.

Casing Diameter 2 in. Length 17 ft. Thickness _____ in.

2 ☐ Borehole Diameter _____ inches Depth _____ ft.

Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground _____ ft.

Type 1 ☐ Steel 1 ☐ Galv. 1 ☒ PVC 1 ☐

2 ☐ Steel 2 ☐ Galv. 2 ☐ PVC 2 ☐ Other _____

Joints 1 ☒ Threaded 1 ☐ Welded 1 ☐ Solvent 1 ☐

2 ☐ Threaded 2 ☐ Welded 2 ☐ Solvent 2 ☐ Other _____

SCREEN

Diameter 2" Slot Size -010 Screen Length 8 ft.

Type Slot Screen Material PVC

Set Between 25.6 ft. and 17.6 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Volume/Weight Used 300/lbs

Method of Installation Drilled

Depth: Placed FROM 25.6 ft. TO 16.6 ft.

GROUT

Material Quick Grout Volume/Weight Used 25 gallons

Method of Installation Poured

Depth: Placed FROM 17.6 ft. TO 1 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation:
sandstone, shale, limestone, gravel, clay, sand, etc.

Asphalt Base From 0 To 1

Olive gray s.l.g. clay From 1 To 16

Red weathered shale From 16 To 25

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-9971

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

944976

WELL LOCATION

County Lorain Township CLYRIA

Owner/Builder Spurs Automotive Center
(Circle One or Both) First Last

Address of Well Location 300 Midway Blvd
Number Street Name

City Clyria Zip Code +4 44035

Permit No. Section/Lot No.
(Circle One or Both)

Location of Well in State Plane
coordinates, if available:

N ☐ X N/A +/- ft. or m

S ☐ Y N/A +/- ft. or m

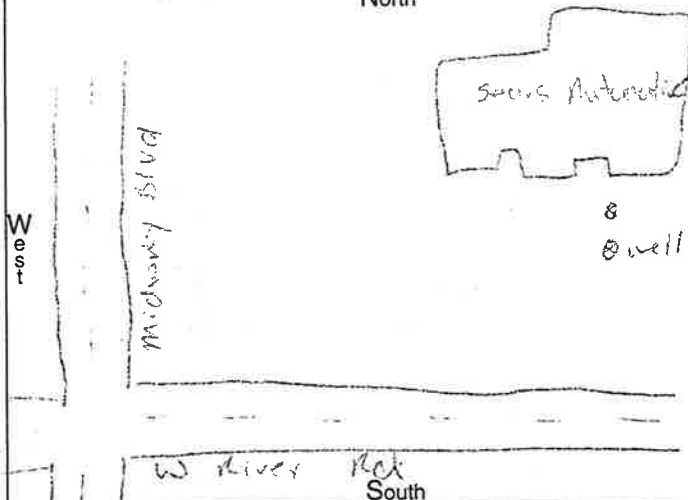
Elevation of Well N/A +/- ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:

North



WELL TEST*

Pre-Pumping Static Level ft. Date

Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other

☐ Air ☐ Bailing * ☐ Pumping * ☐ Other

Test Rate gpm Duration of Test hrs.

Feet of Drawdown ft. Sustainable Yield gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality

PUMP/PITLESS

Type of pump N/A Capacity gpm

Pump set at ft. Pitless Type N/A

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Belasco Drilling, LLC

Address 1519 Olmsted Square Dr

City, State, Zip Columbus OH 43209

Signed Mark Ciel Date 7-1-02

ODH Registration Number N/A

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other

BOREHOLE/CASING (measured from ground surface)

1 ☐ Borehole Diameter 8 inches Depth 25.6 ft.

Casing Diameter 2 in. Length 10.6 ft. Thickness in.

2 ☐ Borehole Diameter inches Depth ft.

Casing Diameter in. Length ft. Thickness in.

Casing Height Above Ground ft.

Type 1 ☐ Steel 1 ☐ Galv. 1 ☒ PVC 1 ☐

2 ☐ Steel 2 ☐ Galv. 2 ☐ PVC 2 ☐ Other

Joints 1 ☒ Threaded 1 ☐ Welded 1 ☐ Solvent 1 ☐

2 ☐ Threaded 2 ☐ Welded 2 ☐ Solvent 2 ☐ Other

SCREEN

Diameter 2" Slot Size 010 Screen Length 7 ft.

Type Slot + 40 Material PVC

Set Between 25.6 ft. and 18.6 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Volume/Weight Used 300 lbs

Method of Installation Drilled

Depth: Placed FROM 25.6 ft. TO 17 ft.

GROUT

Material Quick Cement Volume/Weight Used 30 gallons

Method of Installation pumped

Depth: Placed FROM 17 ft. TO 1 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation:
sandstone, shale, limestone, gravel, clay, sand, etc.

From To

Concrete and base	0	1
Dark Brown silty clay	1	16
Red weathered shale	16	25.6

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 025-02 Total Depth of Well 25.6 ft.

APPENDIX C

Laboratory Analytical Report



AAC Trinity, Inc.
38855 Hills Tech Drive, Suite 550
Farmington Hills, MI 48331

July 03, 2002

Dave Dukat
Watterson Environmental Group, LLC
3450 W. Central Ave., Suite 330
Toledo, OH 43606
TEL: (419) 535-6125
FAX (419) 535-6285

Project ID: 80026.02/unit 1310, Elyria, OH

Lab Order 02-1651

Dear Dave Dukat,

AAC Trinity received 2 samples on 6/21/2002 for the analyses presented in the following report.

Sample analyses proceeded unremarkably unless a Case Narrative has been included with this report denoting specific problems encountered. Associated quality control data was within laboratory defined or method specified acceptance limits except as noted.

All samples were extracted and analyzed within the holding time recommended for the applicable method unless noted in the Case Narrative.

If you have any questions regarding these results, please feel free to call. (248) 848 9656

Thank you for using AAC Trinity laboratories for your analytical needs. We look forward to working with you on future projects.

Sincerely,

A handwritten signature in cursive script that reads 'Charles O'Bryan'.

Charles O'Bryan

Director of Analytical Services

AAC Trinity**Date:** 03-Jul-02

CLIENT: Watterson Environmental Group, LLC
Lab Order: 02-1651
Project: 80026.02/unit 1310, Elyria, OH
Lab ID: 02-1651-01

Client Sample ID: SB10; 2-4
Collection Date: 6/20/2002 11:40:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TOTAL PETROLEUM HYDROCARBONS - EPA 418						
Petroleum Hydrocarbons, TR	2,100	100		mg/Kg-dry	1	Analyst: SS 6/24/2002
VOLATILE ORGANIC COMPOUNDS - EPA 8260						
Benzene	ND	45		µg/Kg-dry	9	Analyst: ZW 7/3/2002 4:19:00 AM
Ethylbenzene	70	45		µg/Kg-dry	9	7/3/2002 4:19:00 AM
Toluene	10	45	J	µg/Kg-dry	9	7/3/2002 4:19:00 AM
Xylenes (Total)	240	140		µg/Kg-dry	9	7/3/2002 4:19:00 AM
Surr: 4-Bromofluorobenzene	102	90.1-114		%REC	9	7/3/2002 4:19:00 AM
Surr: Dibromofluoromethane	79.4	66.3-124		%REC	9	7/3/2002 4:19:00 AM
Surr: Toluene-d8	98.1	83.2-115		%REC	9	7/3/2002 4:19:00 AM
PERCENT MOISTURE						
Percent Moisture	16	1.0		wt%	1	Analyst: VD 6/24/2002

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

AAC Trinity

Date: 03-Jul-02

CLIENT: Watterson Environmental Group, LLC
Lab Order: 02-1651
Project: 80026.02/unit 1310, Elyria, OH
Lab ID: 02-1651-02

Client Sample ID: SB11; 8-10
Collection Date: 6/20/2002 2:00:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TOTAL PETROLEUM HYDROCARBONS - EPA 418						Analyst: SS
Petroleum Hydrocarbons, TR	180	100		mg/Kg-dry	1	6/24/2002
VOLATILE ORGANIC COMPOUNDS - EPA 8260						Analyst: ZW
Benzene	ND	45		µg/Kg-dry	9	7/3/2002 4:47:00 AM
Ethylbenzene	ND	45		µg/Kg-dry	9	7/3/2002 4:47:00 AM
Toluene	ND	45		µg/Kg-dry	9	7/3/2002 4:47:00 AM
Xylenes (Total)	10	140	J	µg/Kg-dry	9	7/3/2002 4:47:00 AM
Surr: 4-Bromofluorobenzene	101	90.1-114		%REC	9	7/3/2002 4:47:00 AM
Surr: Dibromofluoromethane	82.7	66.3-124		%REC	9	7/3/2002 4:47:00 AM
Surr: Toluene-d8	95.7	83.2-115		%REC	9	7/3/2002 4:47:00 AM
PERCENT MOISTURE						Analyst: VD
Percent Moisture	13	1.0		wt%	1	6/24/2002

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

AAC Trinity

Date: 03-Jul-02

CLIENT: Watterson Environmental Group, LLC
 Work Order: 02-1651
 Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Method Blank

Sample ID	MBLANK	Batch ID: R21754	Test Code: E418.1	Units: mg/Kg	Analysis Date	6/24/2002	Prep Date:					
Client ID:		Run ID: IR1_020624B			SeqNo:	277748						
Analyte		Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR		ND										

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	

CLIENT: Watterson Environmental Group, LLC
Work Order: 02-1651
Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Method Blank

Sample ID	mbik	Batch ID: R21872	Test Code: EPA8260	Units: µg/L	Analysis Date	7/3/2002 7:31:00 AM	Prep Date:					
Client ID:		Run ID:	MS1_020702A		SeqNo:	279056						
Analyte		Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND	1									
1,1,1-Trichloroethane		ND	1									
1,1,2,2-Tetrachloroethane		ND	1									
1,1,2-Trichloroethane		ND	1									
1,1-Dichloroethane		ND	1									
1,1-Dichloroethene		ND	1									
1,1-Dichloropropene		ND	1									
1,2,3-Trichlorobenzene		ND	5									
1,2,3-Trichloropropene		ND	1									
1,2,4-Trichlorobenzene		ND	5									
1,2,4-Trimethylbenzene		ND	1									
1,2-Dibromo-3-chloropropane		ND	1									
1,2-Dibromoethane		ND	1									
1,2-Dichlorobenzene		ND	1									
1,2-Dichloroethane		ND	1									
1,2-Dichloropropene		ND	1									
1,3,5-Trimethylbenzene		ND	1									
1,3-Dichlorobenzene		ND	1									
1,3-Dichloropropene		ND	1									
1,4-Dichlorobenzene		ND	1									
2,2-Dichloropropane		ND	1									
2-Butanone		ND	5									
2-Chloroethyl vinyl ether		ND	5									
2-Chlorotoluene		ND	1									
2-Hexanone		ND	1									
2-Methylnaphthalene		ND	5									
4-Chlorotoluene		ND	1									
4-Methyl-2-pentanone		ND	5									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1651

Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Method Blank

Acetone	ND	5
Acetonitrile	ND	5
Acrolein (Propenal)	ND	5
Acrylonitrile	ND	5
Benzene	ND	1
Bromobenzene	ND	1
Bromochloromethane	ND	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	1
Carbon Disulfide	ND	5
Carbon tetrachloride	ND	1
Chlorobenzene	ND	1
Chlorodibromomethane	ND	1
Chloroethane	ND	1
Chloroform	ND	1
Chloromethane	ND	1
cis-1,2-Dichloroethene	ND	1
cis-1,3-Dichloropropene	ND	1
Dibromomethane	ND	1
Dichlorodifluoromethane	ND	1
Ethylbenzene	ND	1
Hexachlorobutadiene	ND	5
Iodomethane	ND	5
Isopropylbenzene	ND	1
Methyl-tert-butyl-ether	ND	5
Methylene chloride	ND	5
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
Naphthalene	ND	5
p-Isopropyltoluene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1651

Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Method Blank

tert-Butylbenzene	ND	1
Tetrachloroethene	ND	1
Toluene	ND	1
trans-1,2-Dichloroethene	ND	1
trans-1,3-Dichloropropane	ND	1
Trichloroethene	ND	1
Trichlorofluoromethane	ND	1
Vinyl acetate	ND	5
Vinyl chloride	ND	1
Xylenes (Total)	ND	3
1,4-Dichlorobenzene-d4	50	0
1,4-Difluorobenzene	50	0
Pentafluorobenzene	50	0
m,p-xylene	ND	2
o-Xylene	ND	1
Surr: 4-Bromofluorobenzene	56.48	1
Surr: Dibromofluoromethane	51.94	1
Surr: Toluene-d8	48.4	1

116	0
132	0
115	0

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

AAC Trinity

Date: 03-Jul-02

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1651

Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID	ms	Batch ID: R21872	Test Code: EPA8260	Units: µg/L	Analysis Date	7/3/2002 6:10:00 AM	Prep Date:				
Client ID:		Run ID:	MS1_020702A		SeqNo:	279057					
Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.75	1	20	0	98.8	70	130	0			
1,1,1-Trichloroethane	19.22	1	20	0	96.1	70	130	0			
1,1,2,2-Tetrachloroethane	17.31	1	20	0	86.6	70	130	0			
1,1,2-Trichloroethane	16.55	1	20	0	82.8	70	130	0			
1,1-Dichloroethane	17.74	1	20	0	88.7	70	130	0			
1,1-Dichloroethene	16.91	1	20	0	84.6	70	130	0			
1,1-Dichloropropene	16.55	1	20	0	82.8	70	130	0			
1,2,3-Trichlorobenzene	20.26	5	20	0	101	70	130	0			
1,2,3-Trichloropropane	16.74	1	20	0	83.7	70	130	0			
1,2,4-Trichlorobenzene	18	5	20	0	90	70	130	0			
1,2,4-Trimethylbenzene	21.45	1	20	0	107	70	130	0			
1,2-Dibromo-3-chloropropane	18.05	1	20	0	90.2	70	130	0			
1,2-Dibromoethane	15.8	1	20	0	79	70	130	0			
1,2-Dichlorobenzene	20.62	1	20	0	103	70	130	0			
1,2-Dichloroethane	16.78	1	20	0	83.9	70	130	0			
1,2-Dichloropropane	17.82	1	20	0	89.1	70	130	0			
1,3,5-Trimethylbenzene	21.67	1	20	0	108	70	130	0			
1,3-Dichlorobenzene	20.68	1	20	0	103	70	130	0			
1,3-Dichloropropane	18.59	1	20	0	93	70	130	0			
1,4-Dichlorobenzene	19.98	1	20	0	99.9	70	130	0			
2,2-Dichloropropane	8.19	1	20	0	40.9	70	130	0			S
2-Butanone	15.95	5	20	0	79.8	70	130	0			
2-Chloroethyl vinyl ether	11.97	5	20	0	59.8	70	130	0			S
2-Chlorotoluene	21.34	1	20	0	107	70	130	0			
2-Hexanone	12.16	1	20	0	60.8	70	130	0			S
2-Methylnaphthalene	27.01	5	20	0	135	70	130	0			S
4-Chlorotoluene	21.07	1	20	0	105	70	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1651

Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Sample Matrix Spike

4-Methyl-2-pentanone	17.65	5	20	0	88.2	70	130	0
Acetone	12.93	5	20	0	64.6	70	130	0
Acrylonitrile	13.57	5	20	0	67.8	70	130	0
Benzene	18.93	1	20	0	94.6	70	130	0
Bromobenzene	21.21	1	20	0	106	70	130	0
Bromochloromethane	17.84	1	20	0	89.2	70	130	0
Bromodichloromethane	18.27	1	20	0	91.4	70	130	0
Bromoform	19.19	1	20	0	96	70	130	0
Bromomethane	20.13	1	20	0	101	70	130	0
Carbon Disulfide	19.3	5	20	0	96.5	70	130	0
Carbon tetrachloride	17.52	1	20	0	87.6	70	130	0
Chlorobenzene	19.99	1	20	0	99.9	70	130	0
Chlorodibromomethane	13.49	1	20	0	67.4	70	130	0
Chloroethane	17.54	1	20	0	87.7	70	130	0
Chloroform	18.79	1	20	0	94	70	130	0
Chloromethane	16.51	1	20	0	82.6	70	130	0
cis-1,2-Dichloroethene	17.69	1	20	0	88.4	70	130	0
cis-1,3-Dichloropropene	17.45	1	20	0	87.2	70	130	0
Dibromomethane	16.06	1	20	0	80.3	70	130	0
Dichlorodifluoromethane	14.77	1	20	0	73.8	70	130	0
Ethylbenzene	19.34	1	20	0	96.7	70	130	0
Hexachlorobutadiene	18.29	5	20	0	91.4	70	130	0
Isopropylbenzene	22.47	1	20	0	112	70	130	0
Methyl-tert-butyl-ether	16.51	5	20	0	82.6	70	130	0
Methylene chloride	17.39	5	20	0	87	70	130	0
n-Butylbenzene	18.18	1	20	0	90.9	70	130	0
n-Propylbenzene	21.72	1	20	0	108	70	130	0
Naphthalene	17.18	5	20	0	85.9	70	130	0
p-Isopropyltoluene	20.88	1	20	0	104	70	130	0
sec-Butylbenzene	21	1	20	0	105	70	130	0
Styrene	19.76	1	20	0	98.8	70	130	0
tert-Butylbenzene	21.57	1	20	0	108	70	130	0
Tetrachloroethene	18.19	1	20	0	91	70	130	0

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1651

Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Sample Matrix Spike

Toluene	18.56	1	20	0	92.8	70	130	0
trans-1,2-Dichloroethene	16.36	1	20	0	81.8	70	130	0
trans-1,3-Dichloropropene	17.52	1	20	0	87.6	70	130	0
Trichloroethene	17.35	1	20	0	86.8	70	130	0
Trichlorofluoromethane	22.13	1	20	0	111	70	130	0
Vinyl chloride	16.71	1	20	0	83.6	70	130	0
Xylenes (Total)	60.07	3	60	0	100	70	130	0
m,p-xylene	40.13	2	40	0	100	70	130	0
o-Xylene	19.94	1	20	0	99.7	70	130	0
Surr: 4-Bromofluorobenzene	51.43	1	50	0	103	85.8	116	0
Surr: Dibromofluoromethane	52.61	1	50	0	105	78.1	132	0
Surr: Toluene-d8	48.79	1	50	0	97.6	82	115	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC
Work Order: 02-1651
Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Sample ID	msd	Batch ID: R21872	Test Code: EPA8260	Units: µg/L	Analysis Date	7/3/2002 6:37:00 AM	Prep Date:				
Client ID:		Run ID:	MS1_020702A		SeqNo:	279058					
Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.65	1	20	0	98.2	70	130	0	0	25	
1,1,1-Trichloroethane	19.66	1	20	0	98.3	70	130	0	0	25	
1,1,2,2-Tetrachloroethane	16.35	1	20	0	81.8	70	130	0	0	25	
1,1,2-Trichloroethane	16.45	1	20	0	82.2	70	130	0	0	25	
1,1-Dichloroethane	17.84	1	20	0	89.2	70	130	0	0	25	
1,1-Dichloroethene	17.16	1	20	0	85.8	70	130	0	0	25	
1,1-Dichloropropene	16.5	1	20	0	82.5	70	130	0	0	25	
1,2,3-Trichlorobenzene	20.92	5	20	0	105	70	130	0	0	25	
1,2,3-Trichloropropane	15.66	1	20	0	78.3	70	130	0	0	25	
1,2,4-Trichlorobenzene	18.37	5	20	0	91.8	70	130	0	0	25	
1,2,4-Trimethylbenzene	21.64	1	20	0	108	70	130	0	0	25	
1,2-Dibromo-3-chloropropane	16.5	1	20	0	82.5	70	130	0	0	25	
1,2-Dibromoethane	15.26	1	20	0	76.3	70	130	0	0	25	
1,2-Dichlorobenzene	20.4	1	20	0	102	70	130	0	0	25	
1,2-Dichloroethane	16.41	1	20	0	82	70	130	0	0	25	
1,2-Dichloropropane	17.57	1	20	0	87.8	70	130	0	0	25	
1,3,5-Trimethylbenzene	21.88	1	20	0	109	70	130	0	0	25	
1,3-Dichlorobenzene	20.66	1	20	0	103	70	130	0	0	25	
1,3-Dichloropropane	17.86	1	20	0	89.3	70	130	0	0	25	
1,4-Dichlorobenzene	19.92	1	20	0	99.6	70	130	0	0	25	
2,2-Dichloropropane	8.16	1	20	0	40.8	70	130	0	0	25	S
2-Butanone	13.51	5	20	0	67.6	70	130	0	0	25	S
2-Chloroethyl vinyl ether	12.13	5	20	0	60.6	70	130	0	0	25	S
2-Chlorotoluene	21.25	1	20	0	106	70	130	0	0	25	
2-Hexanone	12.22	1	20	0	61.1	70	130	0	0	25	S
2-Methylnaphthalene	30.23	5	20	0	151	70	130	0	0	25	S
4-Chlorotoluene	20.87	1	20	0	104	70	130	0	0	25	
4-Methyl-2-pentanone	16.61	5	20	0	83	70	130	0	0	25	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1651

Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Acetone	11.2	5	20	0	56	70	130	0	0	25	S
Acrylonitrile	12.55	5	20	0	62.8	70	130	0	0	25	S
Benzene	18.74	1	20	0	93.7	70	130	0	0	25	
Bromobenzene	20.92	1	20	0	105	70	130	0	0	25	
Bromochloromethane	17.98	1	20	0	89.9	70	130	0	0	25	
Bromodichloromethane	18.04	1	20	0	90.2	70	130	0	0	25	
Bromoform	17.53	1	20	0	87.6	70	130	0	0	25	
Bromomethane	20.32	1	20	0	102	70	130	0	0	25	
Carbon Disulfide	19.38	5	20	0	96.9	70	130	0	0	25	
Carbon tetrachloride	17.77	1	20	0	88.8	70	130	0	0	25	
Chlorobenzene	19.93	1	20	0	99.6	70	130	0	0	25	
Chlorodibromomethane	14.59	1	20	0	73	70	130	0	0	25	
Chloroethane	17.6	1	20	0	88	70	130	0	0	25	
Chloroform	18.75	1	20	0	93.8	70	130	0	0	25	
Chloromethane	15.11	1	20	0	75.5	70	130	0	0	25	
cis-1,2-Dichloroethene	17.55	1	20	0	87.8	70	130	0	0	25	
cis-1,3-Dichloropropene	17.12	1	20	0	85.6	70	130	0	0	25	
Dibromomethane	17.1	1	20	0	85.5	70	130	0	0	25	
Dichlorodifluoromethane	14.47	1	20	0	72.4	70	130	0	0	25	
Ethylbenzene	19.51	1	20	0	97.6	70	130	0	0	25	
Hexachlorobutadiene	18.48	5	20	0	92.4	70	130	0	0	25	
Isopropylbenzene	22.48	1	20	0	112	70	130	0	0	25	
Methyl-tert-butyl-ether	16.06	5	20	0	80.3	70	130	0	0	25	
Methylene chloride	17.08	5	20	0	85.4	70	130	0	0	25	
n-Butylbenzene	17.99	1	20	0	90	70	130	0	0	25	
n-Propylbenzene	21.84	1	20	0	109	70	130	0	0	25	
Naphthalene	16.92	5	20	0	84.6	70	130	0	0	25	
p-Isopropyltoluene	20.87	1	20	0	104	70	130	0	0	25	
sec-Butylbenzene	21.19	1	20	0	106	70	130	0	0	25	
Styrene	19.74	1	20	0	98.7	70	130	0	0	25	
tert-Butylbenzene	21.16	1	20	0	106	70	130	0	0	25	
Tetrachloroethene	18.21	1	20	0	91	70	130	0	0	25	
Toluene	18.52	1	20	0	92.6	70	130	0	0	25	

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1651

Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

trans-1,2-Dichloroethene	17.84	1	20	0	89.2	70	130	0	0	25
trans-1,3-Dichloropropene	16.88	1	20	0	84.4	70	130	0	0	25
Trichloroethene	17.34	1	20	0	86.7	70	130	0	0	25
Trichlorofluoromethane	22.28	1	20	0	111	70	130	0	0	25
Vinyl chloride	16.45	1	20	0	82.2	70	130	0	0	25
Xylenes (Total)	60.21	3	60	0	100	70	130	0	0	25
m,p-xylene	40.26	2	40	0	101	70	130	0	0	25
o-Xylene	19.95	1	20	0	99.8	70	130	0	0	25
Surr: 4-Bromofluorobenzene	51.36	1	50	0	103	85.8	116	0	0	25
Surr: Dibromofluoromethane	53.37	1	50	0	107	78.1	132	0	0	25
Surr: Toluene-d8	48.93	1	50	0	97.9	82	115	0	0	25

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

AAC Trinity

Date: 03-Jul-02

CLIENT: Watterson Environmental Group, LLC
 Work Order: 02-1651
 Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BLKSPK	Batch ID: R21754	Test Code: E418.1	Units: mg/Kg	Analysis Date	6/24/2002	Prep Date:					
Client ID:		Run ID: IR1_020624B			SeqNo:	277749						
Analyte		Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR		47.4	0	39	0	122	80	120	0			S

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1651

Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	Ics	Batch ID: R21872	Test Code: EPA8260	Units: µg/L	Analysis Date	7/3/2002 7:04:00 AM	Prep Date:				
Client ID:		Run ID:	MS1_020702A		SeqNo:	279055					
Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.72	1	20	0	98.6	90.1	115	0			
1,1,1-Trichloroethane	20.55	1	20	0	103	74.5	125	0			
1,1,2,2-Tetrachloroethane	17.63	1	20	0	88.1	60.2	130	0			
1,1,2-Trichloroethane	16.45	1	20	0	82.2	67	110	0			
1,1-Dichloroethane	18.12	1	20	0	90.6	73.1	125	0			
1,1-Dichloroethene	16.68	1	20	0	83.4	61.8	125	0			
1,1-Dichloropropene	16.76	1	20	0	83.8	82.2	115	0			
1,2,3-Trichlorobenzene	17.34	5	20	0	86.7	70	130	0			
1,2,3-Trichloropropane	16.79	1	20	0	83.9	69.5	113	0			
1,2,4-Trichlorobenzene	15.96	5	20	0	79.8	38.5	209	0			
1,2,4-Trimethylbenzene	21.57	1	20	0	108	81.5	141	0			
1,2-Dibromo-3-chloropropane	17.16	1	20	0	85.8	49.6	153	0			
1,2-Dibromoethane	15.84	1	20	0	79.2	62.8	109	0			
1,2-Dichlorobenzene	20.28	1	20	0	101	86	113	0			
1,2-Dichloroethane	16.8	1	20	0	84	65.1	120	0			
1,2-Dichloropropane	17.64	1	20	0	88.2	81	109	0			
1,3,5-Trimethylbenzene	21.84	1	20	0	109	81	109	0			S
1,3-Dichlorobenzene	20.75	1	20	0	104	90.1	117	0			
1,3-Dichloropropane	18.3	1	20	0	91.5	75.6	111	0			
1,4-Dichlorobenzene	19.58	1	20	0	97.9	88.8	112	0			
2,2-Dichloropropane	8.21	1	20	0	41	24.6	159	0			
2-Butanone	16.33	5	20	0	81.6	36.4	108	0			
2-Chloroethyl vinyl ether	11.78	5	20	0	58.9	8.95	132	0			
2-Chlorotoluene	21.61	1	20	0	108	88.8	124	0			
2-Hexanone	12.17	1	20	0	60.8	35.6	99.7	0			
2-Methylnaphthalene	20.63	5	20	0	103	40	175	0			
4-Chlorotoluene	21.44	1	20	0	107	61.9	158	0			
4-Methyl-2-pentanone	17.4	5	20	0	87	31.6	122	0			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1651

Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Laboratory Control Spike - generic

Acetone	14.4	5	20	0	72	32.3	135	0
Acrylonitrile	13.31	5	20	0	66.6	39.2	105	0
Benzene	18.64	1	20	0	93.2	84	113	0
Bromobenzene	21.36	1	20	0	107	89.1	111	0
Bromochloromethane	18.27	1	20	0	91.4	68.5	114	0
Bromodichloromethane	18.28	1	20	0	91.4	76.6	114	0
Bromoform	18.95	1	20	0	94.8	51.4	117	0
Bromomethane	21.97	1	20	0	110	18.3	171	0
Carbon Disulfide	19.74	5	20	0	98.7	8.52	154	0
Carbon tetrachloride	16.18	1	20	0	80.9	80.6	125	0
Chlorobenzene	19.74	1	20	0	98.7	90.8	112	0
Chlorodibromomethane	13.44	1	20	0	67.2	73.1	110	0
Chloroethane	19.33	1	20	0	96.6	55.7	129	0
Chloroform	18.85	1	20	0	94.2	73.9	116	0
Chloromethane	16.2	1	20	0	81	55.8	120	0
cis-1,2-Dichloroethene	17.54	1	20	0	87.7	75.3	116	0
cis-1,3-Dichloropropene	16.89	1	20	0	84.4	70.8	103	0
Dibromomethane	16.27	1	20	0	81.4	67.2	112	0
Dichlorodifluoromethane	14.55	1	20	0	72.8	25.4	144	0
Ethylbenzene	19.42	1	20	0	97.1	90.4	120	0
Hexachlorobutadiene	17.15	5	20	0	85.8	48.2	198	0
Isopropylbenzene	22.8	1	20	0	114	87	130	0
Methyl-tert-butyl-ether	16.75	5	20	0	83.8	16.1	138	0
Methylene chloride	17.17	5	20	0	85.8	62.8	126	0
n-Butylbenzene	17.59	1	20	0	87.9	71	149	0
n-Propylbenzene	21.94	1	20	0	110	87.4	132	0
Naphthalene	15.27	5	20	0	76.4	70	130	0
p-Isopropyltoluene	20.79	1	20	0	104	81	144	0
sec-Butylbenzene	21.13	1	20	0	106	78.8	144	0
Styrene	19.66	1	20	0	98.3	89.6	116	0
tert-Butylbenzene	21.99	1	20	0	110	88.5	135	0
Tetrachloroethene	17.75	1	20	0	88.8	25.5	131	0
Toluene	18.24	1	20	0	91.2	78.5	122	0

S

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1651

Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Laboratory Control Spike - generic

trans-1,2-Dichloroethene	17.13	1	20	0	85.6	73.3	120	0
trans-1,3-Dichloropropene	17.17	1	20	0	85.8	63.2	105	0
Trichloroethene	17.07	1	20	0	85.4	73.8	124	0
Trichlorofluoromethane	22.44	1	20	0	112	64.2	117	0
Vinyl chloride	17.04	1	20	0	85.2	60.2	119	0
Xylenes (Total)	59.51	3	60	0	99.2	88.5	127	0
m,p-xylene	39.72	2	40	0	99.3	89.9	128	0
o-Xylene	19.79	1	20	0	98.9	89.8	122	0
Surr: 4-Bromofluorobenzene	52.38	1	50	0	105	85.8	116	0
Surr: Dibromofluoromethane	54.38	1	50	0	109	85	111	0
Surr: Toluene-d8	48.67	1	50	0	97.3	82	115	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

AAC Trinity

Date: 03-Jul-02

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1651

Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID	ccv	Batch ID: R21872	Test Code: EPA8260	Units: µg/L	Analysis Date 7/2/2002 6:27:00 PM	Prep Date:					
Client ID:		Run ID:	MS1_020702A		SeqNo: 279054						
Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.54	1	20	0	103	80	120	0			
1,1,1-Trichloroethane	18.98	1	20	0	94.9	80	120	0			
1,1,2,2-Tetrachloroethane	18.94	1	20	0	94.7	80	120	0			
1,1,2-Trichloroethane	17.36	1	20	0	86.8	80	120	0			
1,1-Dichloroethane	16.66	1	20	0	83.3	80	120	0			
1,1-Dichloroethene	16.6	1	20	0	83	80	120	0			
1,1-Dichloropropene	16.64	1	20	0	83.2	80	120	0			
1,2,3-Trichlorobenzene	20.4	5	20	0	102	80	120	0			
1,2,3-Trichloropropane	18.41	1	20	0	92	80	120	0			
1,2,4-Trichlorobenzene	17.37	5	20	0	86.8	40	120	0			
1,2,4-Trimethylbenzene	21.71	1	20	0	108	80	120	0			
1,2-Dibromo-3-chloropropane	19.44	1	20	0	97.2	80	120	0			
1,2-Dibromoethane	16.44	1	20	0	82.2	80	120	0			
1,2-Dichlorobenzene	20.98	1	20	0	105	80	120	0			
1,2-Dichloroethane	17.37	1	20	0	86.8	80	120	0			
1,2-Dichloropropane	17.9	1	20	0	89.5	80	120	0			
1,3,5-Trimethylbenzene	22.08	1	20	0	110	80	120	0			
1,3-Dichlorobenzene	21.03	1	20	0	105	80	120	0			
1,3-Dichloropropane	19.11	1	20	0	95.6	80	120	0			
1,4-Dichlorobenzene	19.91	1	20	0	99.6	80	120	0			
2,2-Dichloropropane	5.56	1	20	0	27.8	80	120	0			S
2-Butanone	17.14	5	20	0	85.7	80	120	0			
2-Chloroethyl vinyl ether	12.88	5	20	0	64.4	80	120	0			S
2-Chlorotoluene	21.59	1	20	0	108	80	120	0			
2-Hexanone	15.7	1	20	0	78.5	80	120	0			S
2-Methylnaphthalene	28.13	5	20	0	141	80	120	0			S
4-Chlorotoluene	21.41	1	20	0	107	80	120	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC
Work Order: 02-1651
Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT

Continuing Calibration Verification Standard

4-Methyl-2-pentanone	18.57	5	20	0	92.8	80	120	0	
Acetone	11.62	5	20	0	58.1	80	120	0	S
Acrylonitrile	12.98	5	20	0	64.9	80	120	0	S
Benzene	19.03	1	20	0	95.2	80	120	0	
Bromobenzene	21.74	1	20	0	109	80	120	0	
Bromochloromethane	18.32	1	20	0	91.6	80	120	0	
Bromodichloromethane	18.76	1	20	0	93.8	80	120	0	
Bromoform	22.39	1	20	0	112	80	120	0	
Bromomethane	20.15	1	20	0	101	80	120	0	
Carbon Disulfide	18.83	5	20	0	94.1	80	120	0	
Carbon tetrachloride	17.64	1	20	0	88.2	80	120	0	
Chlorobenzene	20.04	1	20	0	100	80	120	0	
Chlorodibromomethane	16.38	1	20	0	81.9	80	120	0	
Chloroethane	18.05	1	20	0	90.2	80	120	0	
Chloroform	18.76	1	20	0	93.8	80	120	0	
Chloromethane	16.64	1	20	0	83.2	80	120	0	
cis-1,2-Dichloroethene	18.36	1	20	0	91.8	80	120	0	
cis-1,3-Dichloropropene	17.05	1	20	0	85.2	80	120	0	
Dibromomethane	16.79	1	20	0	83.9	80	120	0	
Dichlorodifluoromethane	14.71	1	20	0	73.6	80	120	0	S
Ethylbenzene	19.65	1	20	0	98.2	80	120	0	
Hexachlorobutadiene	17.61	5	20	0	88	80	120	0	
Isopropylbenzene	22.65	1	20	0	113	80	120	0	
Methyl-tert-butyl-ether	16.91	5	20	0	84.6	80	120	0	
Methylene chloride	17.66	5	20	0	88.3	80	120	0	
n-Butylbenzene	17.46	1	20	0	87.3	80	120	0	
n-Propylbenzene	21.91	1	20	0	110	80	120	0	
Naphthalene	17.53	5	20	0	87.6	80	120	0	
p-Isopropyltoluene	20.69	1	20	0	103	80	120	0	
sec-Butylbenzene	21.04	1	20	0	105	80	120	0	
Styrene	19.07	1	20	0	95.4	80	120	0	
tert-Butylbenzene	22.3	1	20	0	112	80	120	0	
Tetrachloroethene	18.57	1	20	0	92.8	80	120	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Watterson Environmental Group, LLC
Work Order: 02-1651
Project: 80026.02/unit 1310, Elyria, OH

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Toluene	18.82	1	20	0	94.1	80	120	0
trans-1,2-Dichloroethene	17.15	1	20	0	85.8	80	120	0
trans-1,3-Dichloropropene	17.45	1	20	0	87.2	80	120	0
Trichloroethene	17.06	1	20	0	85.3	80	120	0
Trichlorofluoromethane	22.53	1	20	0	113	80	120	0
Vinyl chloride	16.68	1	20	0	83.4	80	120	0
Xylenes (Total)	60.62	3	60	0	101	80	120	0
1,4-Dichlorobenzene-d4	50	0	0	0	0	0	0	0
1,4-Difluorobenzene	50	0	0	0	0	0	0	0
Pentafluorobenzene	50	0	0	0	0	0	0	0
m,p-xylene	40.36	2	40	0	101	80	120	0
o-Xylene	20.26	1	20	0	101	80	120	0
Surr: 4-Bromofluorobenzene	52.04	1	50	0	104	85.8	116	0
Surr: Dibromofluoromethane	52.85	1	50	0	106	78.1	132	0
Surr: Toluene-d8	48.78	1	50	0	97.6	82	115	0

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



TRAVERSE CITY LAB
AAC Trinity, Inc.
3141 Logan Valley Road
Traverse City, MI 49684
phone (231) 947-2389
fax (231) 947-6530

Client: Watterson Environmental Group, LLC		Report To: David Dukat		Page: 1 of 1								
Project Name: Unit 1310, Elyria, OH		Phone Nbr: (419) 535-6125		Fax Nbr: (419) 535-6285								
Project Nbr: 80026.02		P.O. Nbr:		Email Address: dduk@wattersonenviro.com								
Sampler's Name: Dave Dukat		Sampler's Signature: [Signature]		Analytical Parameters								
Item Nbr	Sample ID	Date Sampled	Time Sampled	Air	Solid	Fluid	Volume	Sample Description	Number of Samples	BTX	TPH	Comments
1	SB10; 2-4	6/26/02	11:40		X		802		1	X	X	
2	SB11; 8-10	6/26/02	14:00		X		802		1	X	X	
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
Relinquished By: [Signature]		Date: 6/26/02	Time: 10:45	Received By: B. Chartrand		Date: 6-21-02	Time: 12:10	FOR LAB USE ONLY				
Relinquished By:		Date:	Time:	Received By:		Date:	Time:	Were samples preserved ☐ in field ☐ in lab ☐ N/A				
Relinquished By:		Date:	Time:	Received By:		Date:	Time:	Were samples filtered ☐ in field ☐ in lab ☐ N/A				
Relinquished By:		Date:	Time:	Received By:		Date:	Time:	Temperature of samples 15-2.8 °C on ice				
Relinquished By:		Date:	Time:	Received By:		Date:	Time:	Comments:				
Relinquished By: B. Chartrand		Date: 6-21-02	Time: 2:00	Received By: Adam Gadsby		Date: 6/21/02	Time: 2:30	TAT: Standard ☒ Next BD ☐ 2nd BD ☐ 3rd BD ☐				



AAC Trinity, Inc.
38855 Hills Tech Drive, Suite 550
Farmington Hills, MI 48331

July 22, 2002

Dave Dukat
Watterson Environmental Group, LLC
3450 W. Central Ave., Suite 330
Toledo, OH 43606
TEL: (419) 535-6125
FAX (419) 535-6285

Project ID: 80026.02/Unit 1310, Elyria, OH

Lab Order 02-1829

Dear Dave Dukat,

AAC Trinity received 2 samples on 7/19/2002 for the analyses presented in the following report.

Sample analyses proceeded unremarkably unless a Case Narrative has been included with this report denoting specific problems encountered. Associated quality control data was within laboratory defined or method specified acceptance limits except as noted.

All samples were extracted and analyzed within the holding time recommended for the applicable method unless noted in the Case Narrative.

If you have any questions regarding these results, please feel free to call. (248) 848 9656

Thank you for using AAC Trinity laboratories for your analytical needs. We look forward to working with you on future projects.

Sincerely,

A handwritten signature in cursive script that reads 'Charles O'Bryan'.

Charles O'Bryan

Director of Analytical Services

AAC Trinity

Date: 22-Jul-02

CLIENT: Watterson Environmental Group, LLC
Lab Order: 02-1829
Project: 80026.02/Unit 1310, Elyria, OH
Lab ID: 02-1829-01

Client Sample ID: MW-1
Collection Date: 7/18/2002 6:45:00 AM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - EPA 8260						Analyst: ZW
Benzene	ND	1.0		µg/L	1	7/20/2002 9:20:00 AM
Ethylbenzene	ND	1.0		µg/L	1	7/20/2002 9:20:00 AM
Toluene	ND	1.0		µg/L	1	7/20/2002 9:20:00 AM
Xylenes (Total)	ND	3.0		µg/L	1	7/20/2002 9:20:00 AM
Surr: 4-Bromofluorobenzene	118	85.8-116	S	%REC	1	7/20/2002 9:20:00 AM
Surr: Dibromofluoromethane	98.9	78.1-132		%REC	1	7/20/2002 9:20:00 AM
Surr: Toluene-d8	97.4	82-115		%REC	1	7/20/2002 9:20:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

AAC Trinity

Date: 22-Jul-02

CLIENT: Watterson Environmental Group, LLC
Lab Order: 02-1829
Project: 80026.02/Unit 1310, Elyria, OH
Lab ID: 02-1829-02

Client Sample ID: MW-2
Collection Date: 7/18/2002 7:00:00 AM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - EPA 8260						Analyst: ZW
Benzene	ND	1.0		µg/L	1	7/20/2002 9:49:00 AM
Ethylbenzene	ND	1.0		µg/L	1	7/20/2002 9:49:00 AM
Toluene	ND	1.0		µg/L	1	7/20/2002 9:49:00 AM
Xylenes (Total)	ND	3.0		µg/L	1	7/20/2002 9:49:00 AM
Surr: 4-Bromofluorobenzene	116	85.8-116	S	%REC	1	7/20/2002 9:49:00 AM
Surr: Dibromofluoromethane	96.7	78.1-132		%REC	1	7/20/2002 9:49:00 AM
Surr: Toluene-d8	96.9	82-115		%REC	1	7/20/2002 9:49:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

AAC Trinity

Date: 31-Jul-02

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1829

Project: 80026.02/Unit 1310, Elyria, OH

QC SUMMARY REPORT

Method Blank

Sample ID	mbik	Batch ID: R22062	Test Code: EPA8260	Units: µg/L	Analysis Date 7/22/2002 11:51:00 AM		Prep Date:				
Client ID:		Run ID: MS1_020719B			SeqNo: 281443						
Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1									
Ethylbenzene	ND	1									
Toluene	ND	1									
Xylenes (Total)	ND	3									
1,4-Dichlorobenzene-d4	50	0									
1,4-Difluorobenzene	50	0									
Pentafluorobenzene	50	0									
Surr: 4-Bromofluorobenzene	55.29	1	50	0	110	85.8	116	0			
Surr: Dibromofluoromethane	49.18	1	50	0	98.4	78.1	132	0			
Surr: Toluene-d8	49.1	1	50	0	98.2	82	115	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

AAC Trinity

Date: 31-Jul-02

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1829

Project: 80026.02/Unit 1310, Elyria, OH

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID	ms	Batch ID: R22062	Test Code: EPA8260	Units: µg/L	Analysis Date	7/20/2002 12:45:00 PM	Prep Date:					
Client ID:		Run ID: MS1_020719B	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result										
Benzene		22.38	1	20	0	112	70	130	0			
Ethylbenzene		21.67	1	20	0	108	70	130	0			
Toluene		23.31	1	20	0	116	70	130	0			
Xylenes (Total)		66.55	3	60	0	111	70	130	0			
Surr: 4-Bromofluorobenzene		48.21	1	50	0	96.4	85.8	116	0			
Surr: Dibromofluoromethane		43.36	1	50	0	86.7	78.1	132	0			
Surr: Toluene-d8		49.67	1	50	0	99.3	82	115	0			

Sample ID	msd	Batch ID: R22062	Test Code: EPA8260	Units: µg/L	Analysis Date	7/22/2002 8:16:00 AM	Prep Date:					
Client ID:		Run ID: MS1_020719B	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result										
Benzene		21.34	1	20	0	107	70	130	22.38	4.76	25	
Ethylbenzene		20.81	1	20	0	104	70	130	21.67	4.05	25	
Toluene		20.06	1	20	0	100	70	130	23.31	15	25	
Xylenes (Total)		64.28	3	60	0	107	70	130	66.55	3.47	25	
Surr: 4-Bromofluorobenzene		56.42	1	50	0	113	85.8	116	48.21	0	25	
Surr: Dibromofluoromethane		51.23	1	50	0	102	78.1	132	43.36	0	25	
Surr: Toluene-d8		49.58	1	50	0	99.2	82	115	49.67	0	25	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

AAC Trinity

Date: 31-Jul-02

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1829

Project: 80026.02/Unit 1310, Elyria, OH

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	Ics	Batch ID: R22062	Test Code: EPA8260	Units: µg/L	Analysis Date	7/20/2002 5:30:00 AM	Prep Date:				
Client ID:		Run ID:	MS1_020719B		SeqNo:	281441					
Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.39	1	20	0	107	84	113	0			
Ethylbenzene	23.05	1	20	0	115	90.4	120	0			
Toluene	21.23	1	20	0	106	78.5	122	0			
Surr: 4-Bromofluorobenzene	51.95	1	50	0	104	85.8	116	0			
Surr: Dibromofluoromethane	47.52	1	50	0	95	85	111	0			
Surr: Toluene-d8	48.9	1	50	0	97.8	82	115	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

AAC Trinity

Date: 31-Jul-02

CLIENT: Watterson Environmental Group, LLC

Work Order: 02-1829

Project: 80026.02/Unit 1310, Elyria, OH

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID	ccv	Batch ID: R22062	Test Code: EPA8260	Units: µg/L	Analysis Date	7/20/2002 6:57:00 AM	Prep Date:				
Client ID:		Run ID: MS1_020719B			SeqNo: 281402						
Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.96	1	20	0	99.8	80	120	0			
Ethylbenzene	21.93	1	20	0	110	80	120	0			
Toluene	20.1	1	20	0	100	80	120	0			
Xylenes (Total)	67.52	3	60	0	112	80	120	0			
1,4-Dichlorobenzene-d4	50	0	0	0	0	0	0	0			
1,4-Difluorobenzene	50	0	0	0	0	0	0	0			
Pentafluorobenzene	50	0	0	0	0	0	0	0			
Surr: 4-Bromofluorobenzene	52.5	1	50	0	105	85.8	116	0			
Surr: Dibromofluoromethane	48.67	1	50	0	97.3	78.1	132	0			
Surr: Toluene-d8	49.13	1	50	0	98.3	82	115	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



CHAIN OF CUSTODY RECORD

MAIN LAB & HEADQUARTERS
AAC Trinity, Inc.
38855 Hills Tech Drive, Suite 550
Farmington Hills, MI 48331
phone (248) 848-9656
fax (248) 848-9657

TRAVERSE CITY LAB
AAC Trinity, Inc.
3141 Logan Valley Road
Traverse City, MI 49684
phone (231) 947-2389
fax (231) 947-6530

Client: Watterson Environmental Group, LLC		Report To: Dave Dubut		Page: 1	Of: 1				
Project Name: Unit 1310, Elyria, OH		Phone Nbr: 419 535-6125		Email Address: ddubut@wattersonenviro.com					
Project Nbr: 80026.02		P.O. Nbr: 419 535-6285		Fax Nbr: 419 535-6285					
Sample Name: David Dubut		Sample's Signature: <i>[Signature]</i>		Quote ID Nbr: 419 535-6285					
Analytical Parameters									
Item Nbr	Sample ID	Date Sampled	Time Sampled	Air	Fluid	Volume	Sample Description	Number of Samples	COMMENTS
1	MW-1	7/18/02	6:45		X	40 ml		3	
2	MW-2	7/18/02	7:00		X	90 ml		3	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
Relinquished By: <i>[Signature]</i>		Date: 7/18/02	Time: 12:00	Received By: <i>[Signature]</i>		Date: 7-18-02	Time: 2:45	FOR LAB USE ONLY	
Relinquished By:		Date:	Time:	Received By:		Date:	Time:	Were samples preserved ☒ in field ☐ in lab ☐ N/A	
Relinquished By:		Date:	Time:	Received By:		Date:	Time:	Were samples filtered ☐ in field ☐ in lab ☒ N/A	
Relinquished By:		Date:	Time:	Received By:		Date:	Time:	Temperature of samples 30-34 °C on ice	
Relinquished By: <i>[Signature]</i>		Date: 7-18-02	Time: 4:30	Received By Laboratory: <i>[Signature]</i>		Date: 7/18/02	Time: 6:30	Comments:	
Distribution		White and Yellow - Lab - Field							
TAT: ☒ Standard		Next BD ☐		2nd BD ☐		3rd BD ☐			